

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P651615

Luminaire Tested: **GALN-SA9D-840-U-SL2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P651615
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-18)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9D-840-U-SL2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 49990.7 lumens
Efficiency: N/A
Efficacy: 90.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G4

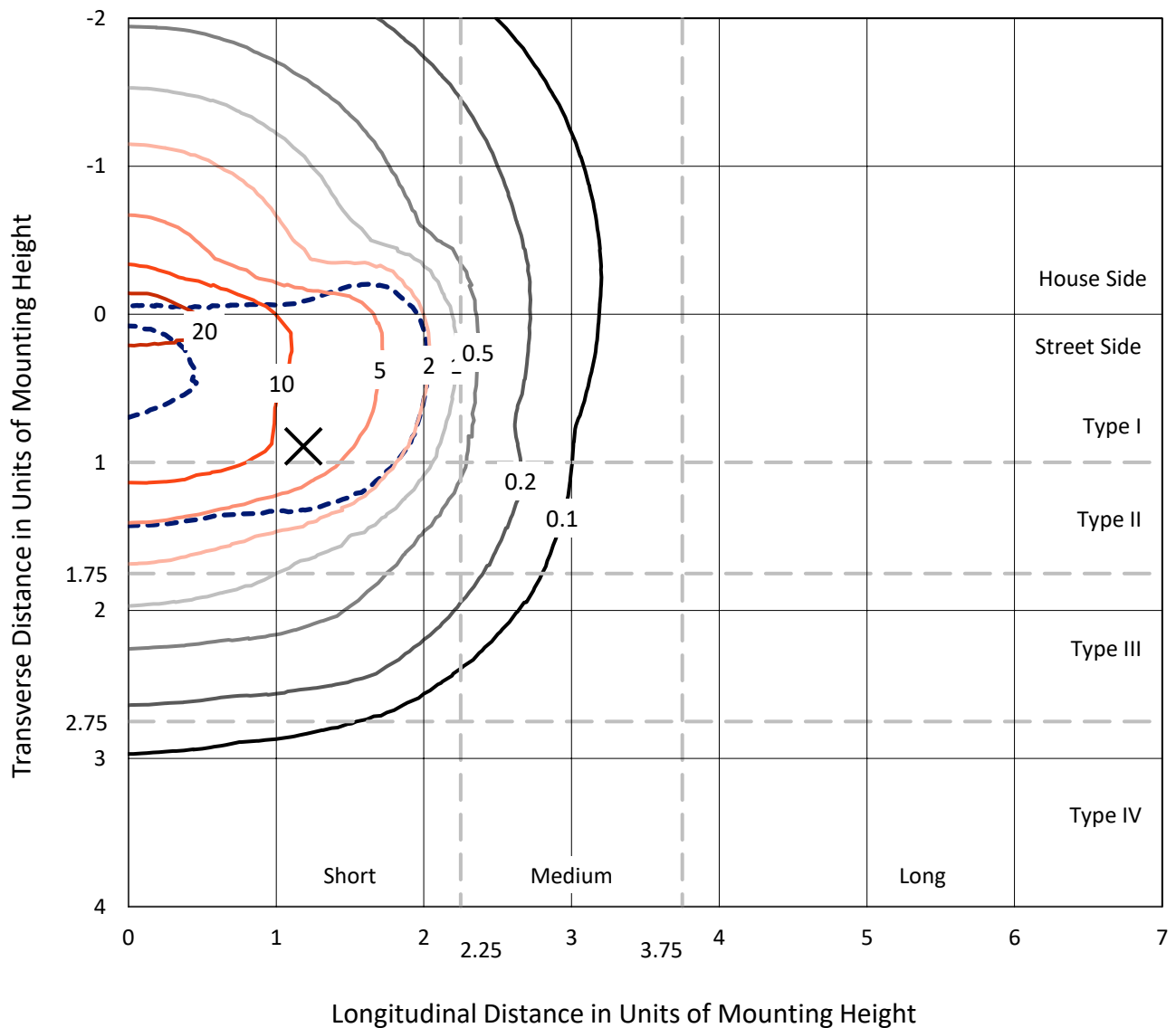
Input Watts (W): 552
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

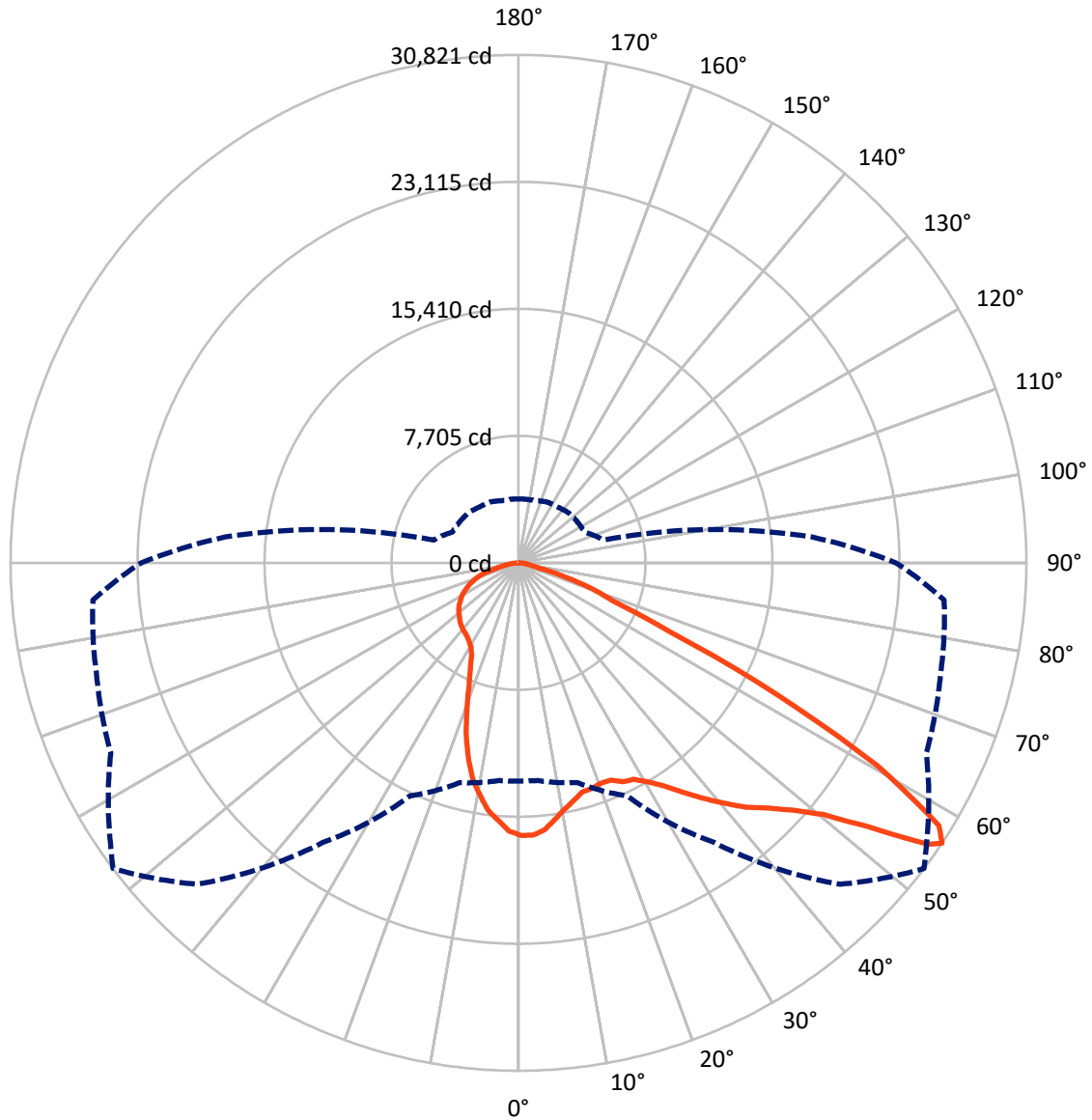
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 26.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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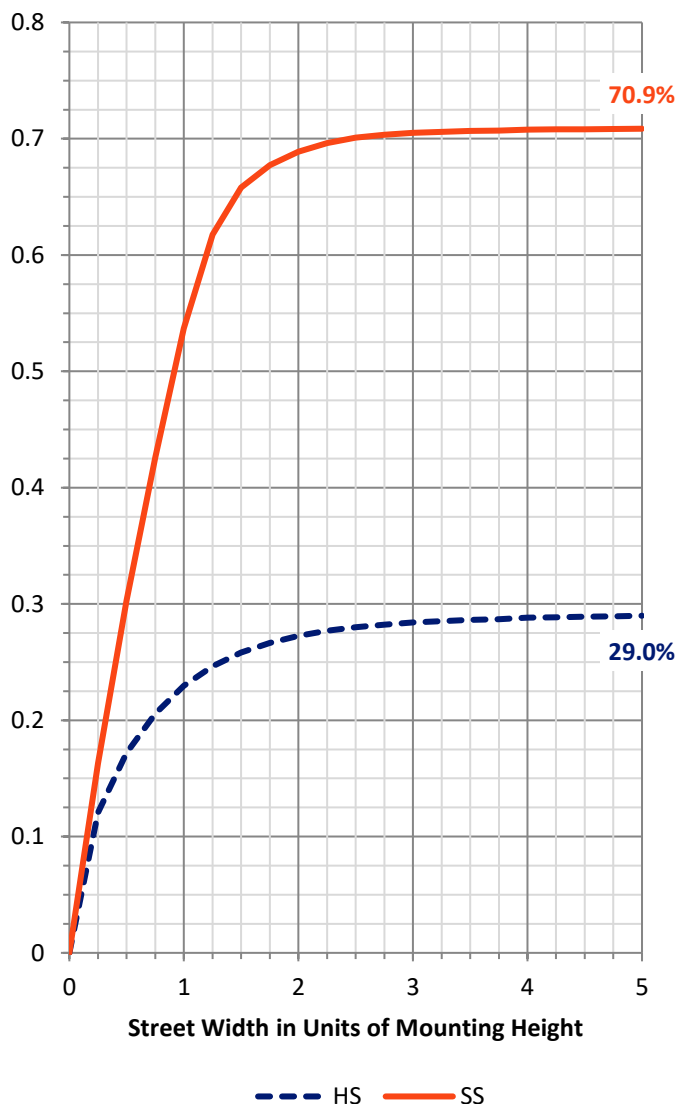
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14588.4	0.0	14588.4
	% Fixture	29.2	0.0	29.2
Street Side	Lumens	35402.3	0.0	35402.3
	% Fixture	70.8	0.0	70.8
Total	Lumens	49990.7	0.0	49990.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1464.1	2.9
10°-20°	3656.8	7.3
20°-30°	5392.3	10.8
30°-40°	7704.6	15.4
40°-50°	10604.3	21.2
50°-60°	12531.5	25.1
60°-70°	6678.5	13.4
70°-80°	1694.3	3.4
80°-90°	264.2	0.5
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	49990.7	100.0
0°-180°	49990.7	100.0

Coefficient of Utilization

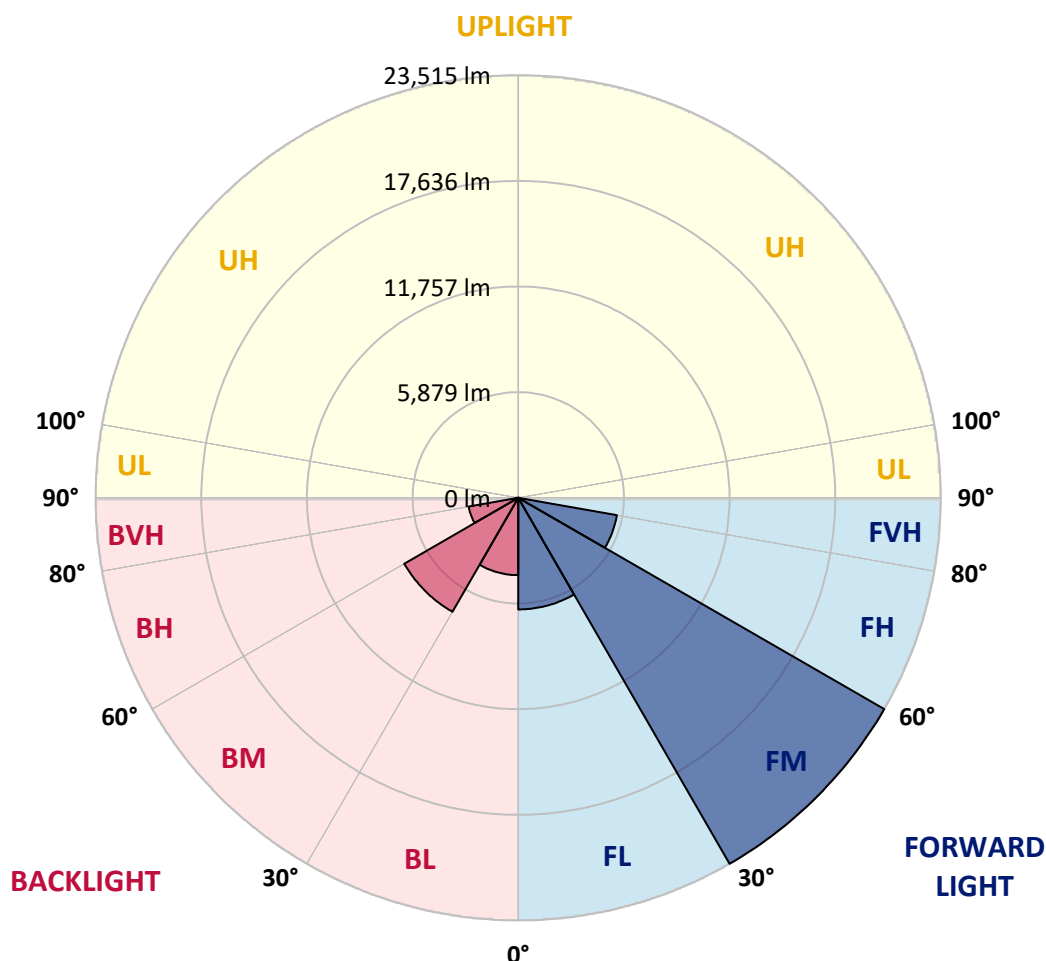


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6210.6	12.4			
FM (30°-60°)	23514.7	47.0			
FH (60°-80°)	5570.8	11.1			G3/7500
FVH (80°-90°)	106.2	0.2			G2/225
BL (0°-30°)	4302.7	8.6	B4/5000		
BM (30°-60°)	7325.8	14.7	B4/8500		
BH (60°-80°)	2801.9	5.6	B4/5000		G4/5000
BVH (80°-90°)	158.0	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	16538.9	16538.9	16538.9	16538.9	16538.9	16538.9	16538.9	16538.9	16538.9	16538.9	16538.9
2.5°	16333.6	16192.6	16276.0	16243.9	16506.8	16583.8	16545.3	16577.4	16724.9	16654.3	16506.8
5°	15262.7	15461.5	15500.1	15596.2	15750.1	16051.5	16288.8	16352.9	16423.5	16750.5	16718.5
7.5°	14288.0	14422.6	14352.1	14634.2	14967.7	15455.1	15743.7	15795.0	16442.7	16622.3	16756.9
10°	13672.3	13537.7	13858.3	13935.3	14313.7	14871.6	15217.8	15429.5	16019.5	16731.3	16814.6
12.5°	13101.6	13056.7	13249.1	13467.1	13890.4	14467.6	14820.3	14903.6	15814.2	16564.6	16955.7
15°	12678.3	12627.0	12819.4	12979.7	13473.5	13986.6	14435.4	14672.8	15589.8	16468.4	16833.9
17.5°	12344.9	12338.5	12447.5	12736.0	13242.6	13672.3	14397.0	14409.8	15474.3	16615.9	16936.5
20°	12325.6	12319.2	12338.5	12659.1	13120.8	13646.7	14275.1	14390.6	15474.3	16513.3	16943.0
22.5°	12485.9	12383.3	12498.8	12704.0	13037.4	13691.6	14320.0	14576.5	15846.3	17019.9	17231.5
25°	12742.5	12768.1	12832.2	12902.8	13095.1	13794.2	14717.7	14929.3	16282.3	17456.0	17629.1
27.5°	13210.6	13197.8	13223.5	13261.9	13428.7	13890.4	14878.0	15423.0	17193.0	18231.9	18058.8
30°	13896.8	13851.9	13954.5	14089.2	13935.3	14198.2	15410.2	15820.6	18039.5	19014.3	18539.8
32.5°	14518.9	14685.5	14878.0	14935.7	14749.7	14801.0	16115.7	16532.5	18745.0	19976.2	19129.7
35°	15294.8	15429.5	15686.0	15865.5	15833.5	15679.6	17077.6	17629.1	19764.6	20681.6	19751.8
37.5°	16051.5	16211.9	16635.1	17167.3	16872.4	16801.8	18103.6	18558.9	20078.8	21060.0	20207.1
40°	17269.9	17263.5	17994.6	18270.4	18533.3	18411.5	19168.2	19322.1	20245.6	20976.6	20219.9
42.5°	18700.1	18610.2	19354.2	19783.9	20123.7	20136.6	20277.6	20226.3	20322.5	20553.4	20085.3
45°	20059.6	20252.0	21002.3	21771.8	22111.7	22150.2	21213.9	21117.8	20457.2	20431.5	19828.8
47.5°	21720.5	21765.4	22381.0	23394.3	24183.1	23913.8	22425.9	22214.3	21047.2	21246.0	20258.4
50°	21816.7	22150.2	22701.7	23894.5	26318.6	26248.0	23997.1	23599.6	21996.3	22400.3	21457.6
52.5°	19803.1	19726.2	20380.2	22329.7	26158.3	28569.5	26600.7	25651.7	24035.6	23727.8	23400.7
55°	15089.6	15269.1	15846.3	17815.1	22714.6	28601.6	30147.1	29371.2	26216.0	25690.1	25311.7
56°	13236.2	13261.9	13807.0	15602.7	20726.5	27581.9	30820.5	30192.0	27299.8	26498.1	25921.0
57.5°	10972.5	10825.0	11107.2	12088.4	17494.4	25427.2	30083.0	30698.6	28569.5	27370.3	26568.7
60°	8638.2	8606.1	8490.7	8670.3	11055.9	19155.4	25042.5	26427.6	28441.3	26549.4	25446.5
62.5°	7054.2	6893.8	7124.8	7381.3	7682.7	11883.2	17597.0	18411.5	22579.8	21194.7	19116.9
65°	5470.2	5393.2	5681.9	6515.5	6695.1	7548.0	10023.4	10651.9	13332.5	13095.1	11530.4
67.5°	3764.4	3777.2	4027.3	5297.0	6207.7	6130.7	6137.2	6464.2	6958.0	5168.8	4501.9
70°	2385.6	2379.2	2513.8	3411.7	4995.6	5046.9	4790.4	4694.3	4450.6	2693.4	2853.8
72.5°	1532.7	1487.8	1558.4	1885.4	2584.4	2988.4	3078.2	3135.9	2578.0	2116.3	2295.8
75°	865.7	820.8	795.2	878.6	1019.6	1180.0	1295.4	1333.9	1494.2	1603.2	1699.4
77.5°	262.9	237.2	288.5	384.8	506.6	679.8	827.3	852.9	1006.8	1135.1	1231.3
80°	115.5	128.3	179.6	256.5	359.1	481.0	583.6	622.1	724.7	820.8	846.5
82.5°	70.6	77.0	121.9	173.2	250.1	339.8	416.8	429.7	532.3	609.2	628.5
85°	25.7	32.0	64.2	102.6	160.3	218.1	218.1	237.2	218.1	218.1	237.2
87.5°	0.0	0.0	6.4	12.9	12.9	19.3	25.7	25.7	32.0	38.5	44.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	16538.9	16538.9	16538.9	16538.9	16538.9	16538.9	16538.9	16538.9	16538.9	16538.9	16538.9
2.5°	16583.8	16551.7	16500.4	16314.5	16295.2	16237.5	15916.9	15865.5	15916.9	15762.9	15775.7
5°	16551.7	16647.9	16263.2	16077.1	15730.9	15480.8	15192.2	15044.7	14781.8	14615.1	14801.0
7.5°	16692.8	16654.3	16173.4	15769.3	15249.9	14615.1	14108.4	13819.8	13358.1	13229.9	13326.1
10°	16641.5	16436.3	15871.9	15339.7	14358.5	13800.6	12979.7	12184.5	11748.4	11524.0	11491.9
12.5°	16571.0	16513.3	15570.5	14653.5	13621.0	12447.5	11293.1	10542.9	9831.0	9523.1	9568.1
15°	16654.3	16167.0	15006.2	13845.5	12473.1	10934.0	9689.9	8721.6	8227.8	8028.9	8028.9
17.5°	16615.9	16000.2	14736.8	12941.2	11203.4	9382.1	8016.2	7432.6	7227.4	7227.4	7285.1
20°	16635.1	16109.3	14191.8	12037.1	9702.7	7900.7	6906.7	6695.1	6784.9	6816.9	6849.0
22.5°	16744.1	15750.1	13659.5	11043.0	8311.1	6759.2	6271.8	6278.2	6438.5	6611.7	6579.6
25°	16878.8	15609.0	13011.8	10055.4	7246.6	6201.3	6047.4	6028.1	6150.0	6239.8	6252.6
27.5°	16763.3	15365.3	12351.3	8824.2	6374.4	5829.3	5797.3	5810.1	5848.6	6028.1	5970.4
30°	17141.7	15435.9	11524.0	7791.7	5893.5	5707.5	5669.0	5649.8	5707.5	5758.8	5713.9
32.5°	17609.9	15185.8	10908.4	6797.7	5656.2	5617.7	5540.8	5515.1	5547.2	5495.9	5521.5
35°	17815.1	15140.9	10106.7	6085.8	5470.2	5438.2	5393.2	5386.9	5393.2	5348.3	5309.9
37.5°	17930.5	15352.5	9189.7	5758.8	5354.8	5386.9	5284.3	5271.4	5156.0	5181.7	5200.9
40°	18129.3	15025.5	8445.8	5444.5	5284.3	5220.1	5130.4	5111.1	5034.1	4989.2	5034.1
42.5°	17840.7	14929.3	7714.7	5309.9	5181.7	5111.1	5046.9	4937.9	4912.3	4873.8	4848.2
45°	17609.9	14377.7	7060.6	5143.1	5059.8	5021.3	4899.5	4784.0	4687.8	4726.3	4668.6
47.5°	17783.0	14185.4	6412.9	5002.1	4893.0	4848.2	4726.3	4636.5	4540.3	4495.5	4482.6
50°	18475.6	14544.5	5867.8	4899.5	4752.0	4726.3	4566.0	4463.4	4373.6	4341.6	4354.4
52.5°	20130.1	15525.7	5495.9	4687.8	4617.3	4501.9	4412.1	4283.8	4226.1	4123.5	4187.6
55°	22227.1	17122.5	5399.6	4489.0	4450.6	4348.0	4226.1	4129.9	4020.9	3937.6	3918.3
56°	22900.5	17885.6	5322.7	4412.1	4348.0	4290.3	4129.9	4072.2	3899.0	3879.8	3867.0
57.5°	23445.6	18558.9	5335.6	4264.6	4200.5	4149.2	4052.9	3911.9	3796.4	3725.9	3758.0
60°	22214.3	17372.6	5091.8	4040.2	4027.3	3931.1	3796.4	3732.3	3591.2	3507.9	3488.6
62.5°	16513.3	11793.3	4129.9	3751.5	3745.1	3642.5	3488.6	3418.1	3392.4	3277.0	3277.0
65°	9510.4	7394.1	3572.0	3514.3	3463.0	3360.4	3206.5	3148.7	3084.6	3046.1	3014.1
67.5°	4059.3	3835.0	3244.9	3238.5	3180.8	3052.6	2898.7	2808.9	2725.5	2648.6	2687.0
70°	2943.5	2988.4	2930.7	2898.7	2828.1	2667.7	2533.1	2424.1	2295.8	2244.5	2283.0
72.5°	2334.3	2430.5	2513.8	2520.3	2436.9	2250.9	2103.4	1955.9	1814.9	1744.3	1776.4
75°	1770.0	1834.1	1917.5	1936.7	1814.9	1686.6	1545.5	1391.6	1282.6	1199.2	1212.0
77.5°	1276.1	1263.4	1340.3	1327.4	1269.7	1180.0	1051.8	910.6	788.8	711.8	718.2
80°	872.1	891.4	936.3	929.9	859.3	801.6	705.4	590.0	500.2	436.1	423.3
82.5°	609.2	641.3	679.8	647.7	590.0	532.3	461.7	378.4	307.8	256.5	243.7
85°	218.1	250.1	288.5	307.8	327.1	314.2	262.9	211.6	153.9	128.3	121.9
87.5°	44.9	51.3	57.7	57.7	57.7	51.3	44.9	44.9	38.5	19.3	19.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)