

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: P647661

Luminaire Tested: **GALN-SA9D-835-U-SL3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P647661
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-16)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9D-835-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 54427.1 lumens
Efficiency: N/A
Efficacy: 98.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

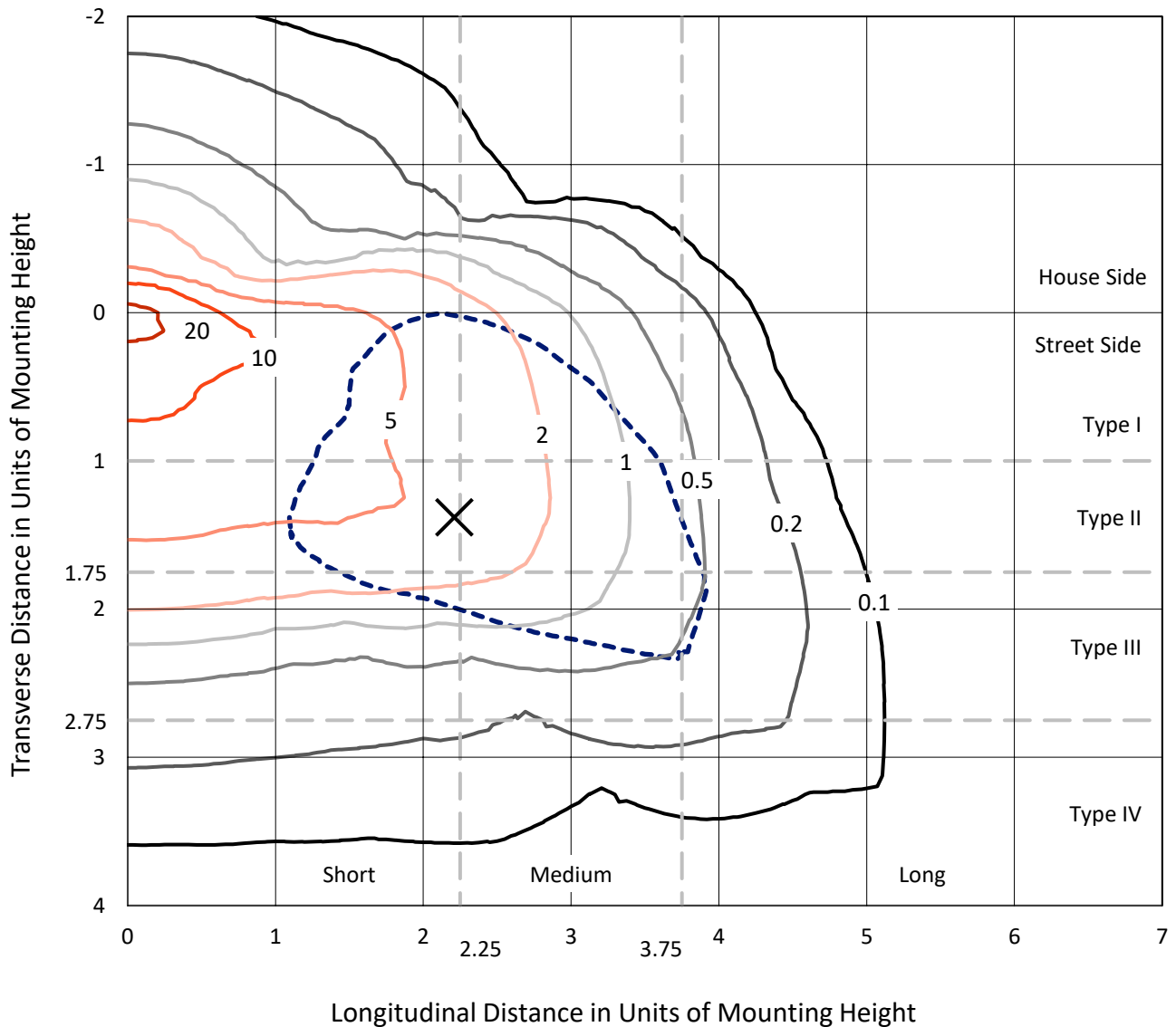
Input Watts (W): 552
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

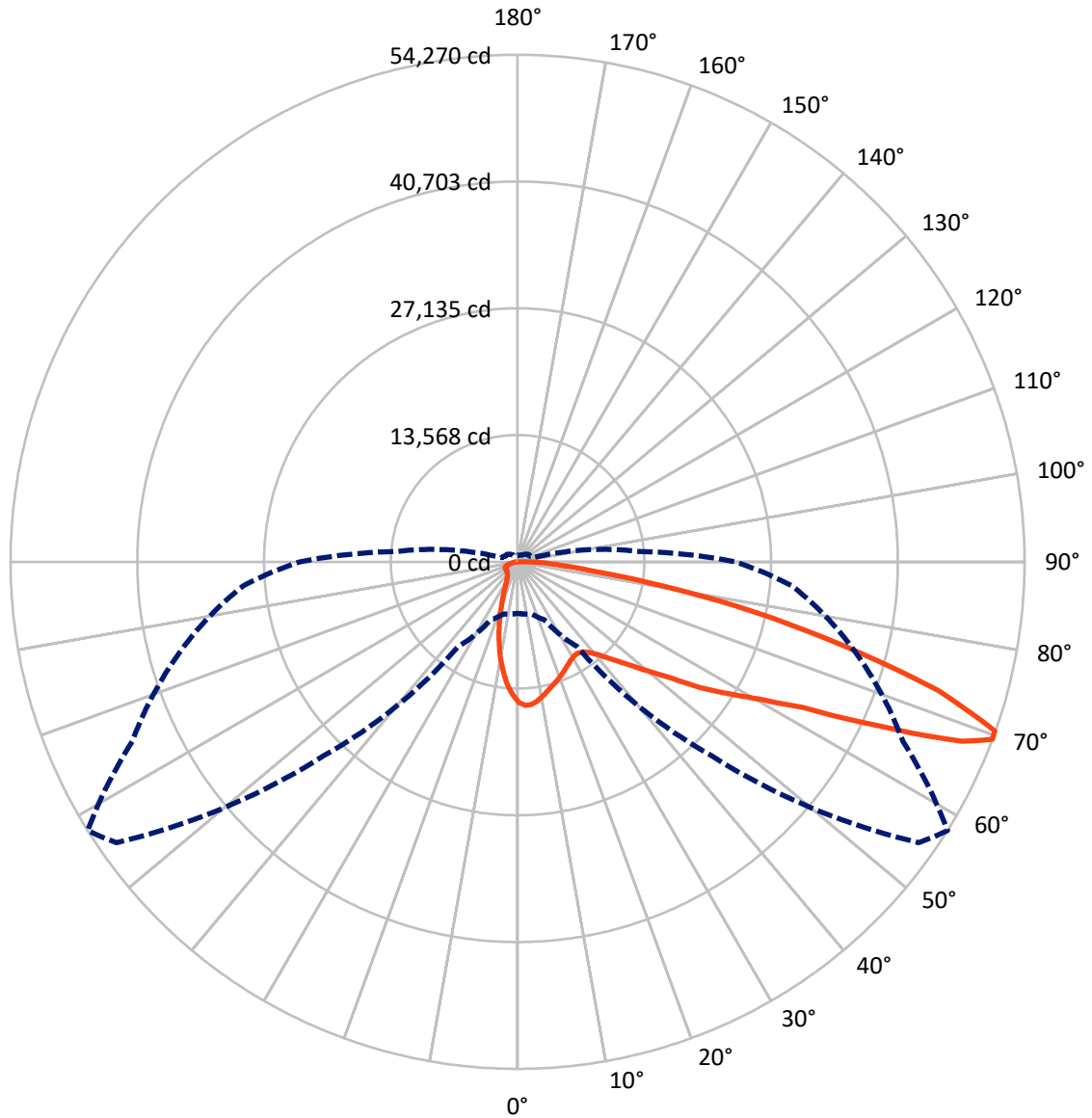
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 24.1 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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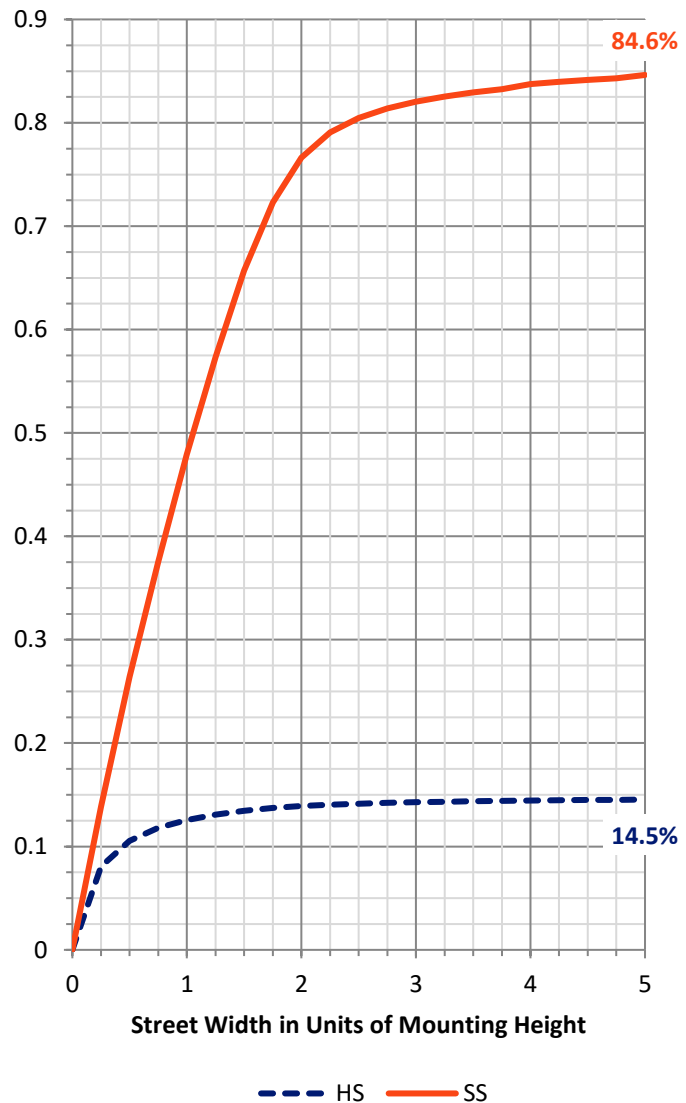
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7976.3	0.0	7976.3
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	46450.8	0.0	46450.8
	% Fixture	85.3	0.0	85.3
Total	Lumens	54427.1	0.0	54427.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1277.3	2.3
10°-20°	2804.7	5.2
20°-30°	3623.8	6.7
30°-40°	4706.6	8.6
40°-50°	6842.7	12.6
50°-60°	10918.6	20.1
60°-70°	14585.9	26.8
70°-80°	8408.2	15.4
80°-90°	1259.4	2.3
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°	54427.1	100.0
0°-180°	54427.1	100.0

Coefficient of Utilization



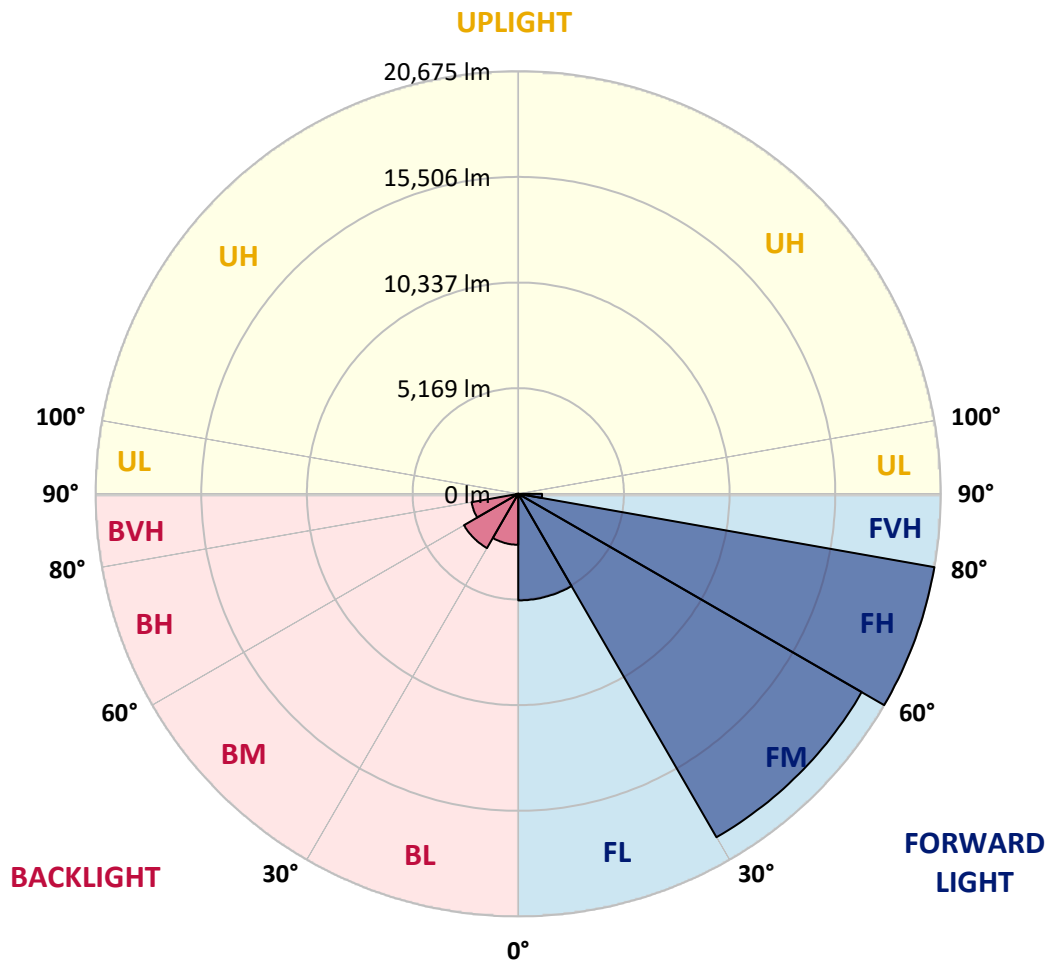
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5212.7	9.6			
FM (30°-60°)	19400.4	35.6			
FH (60°-80°)	20674.8	38.0			G5
FVH (80°-90°)	1162.9	2.1			G5
BL (0°-30°)	2493.1	4.6	B3/2500		
BM (30°-60°)	3067.4	5.6	B3/5000		
BH (60°-80°)	2319.3	4.3	B3/2500		G3/2500
BVH (80°-90°)	96.5	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	15040.5	15040.5	15040.5	15040.5	15040.5	15040.5	15040.5	15040.5	15040.5	15040.5	15040.5
2.5°	15599.0	15641.4	15629.3	15614.2	15589.8	15523.1	15413.8	15395.6	15325.8	15177.0	14991.9
5°	15359.2	15395.6	15398.6	15419.9	15450.2	15438.1	15359.2	15350.1	15246.9	15046.5	14736.9
7.5°	14536.6	14585.2	14691.4	14809.7	14916.0	15016.2	15040.5	15055.7	14991.9	14761.2	14348.4
10°	13610.8	13659.4	13707.9	13884.0	14145.1	14393.9	14600.4	14627.6	14642.8	14430.4	13926.4
12.5°	12584.8	12685.0	12788.2	13049.2	13398.3	13789.9	14154.1	14211.8	14315.0	14154.1	13562.2
15°	11713.7	11816.9	11965.6	12199.3	12621.3	13185.8	13698.8	13792.9	13996.3	13914.3	13222.3
17.5°	11109.6	11146.0	11249.2	11516.4	11971.7	12566.6	13252.6	13440.8	13765.6	13744.3	12930.9
20°	10633.1	10678.6	10742.3	10906.3	11379.7	12008.1	12836.7	13079.6	13519.7	13592.6	12642.5
22.5°	10432.7	10466.1	10457.0	10545.1	10866.8	11498.1	12414.9	12703.2	13301.2	13489.4	12375.4
25°	10444.8	10475.2	10429.6	10408.4	10599.6	11048.9	11974.7	12342.0	13125.1	13419.5	12132.5
27.5°	10648.3	10669.5	10584.5	10499.5	10514.7	10769.6	11610.5	12017.2	12976.4	13449.9	11929.2
30°	10921.4	10960.9	10906.3	10803.1	10690.7	10702.8	11376.8	11777.4	12906.6	13556.2	11832.1
32.5°	11273.6	11310.0	11285.7	11203.7	11058.0	10897.2	11319.0	11689.4	12912.6	13771.6	11810.8
35°	11643.8	11716.7	11756.1	11750.1	11631.7	11352.4	11546.7	11853.3	13058.3	14132.9	11935.3
37.5°	12062.7	12123.4	12293.4	12402.7	12293.4	11968.6	12059.7	12272.2	13380.1	14654.9	12208.5
40°	12469.5	12560.6	12809.4	13149.4	13106.9	12821.5	12842.8	12982.5	13947.7	15432.1	12742.7
42.5°	12894.4	13003.7	13437.8	13941.6	14041.9	13820.3	13877.9	14002.4	14755.2	16509.6	13659.4
45°	13440.8	13571.3	14105.6	14733.9	15128.5	14991.9	15155.8	15216.5	15835.8	17912.0	14867.4
47.5°	14145.1	14296.8	14955.5	15738.6	16297.1	16421.5	16706.9	16670.5	17174.4	19572.3	16433.8
50°	15331.8	15416.9	16039.1	16837.4	17605.4	18166.9	18476.5	18534.2	18834.8	21187.2	18185.2
52.5°	16743.4	16819.2	17268.4	17966.6	18928.9	20118.7	20883.6	20695.5	20768.3	23154.1	20234.1
55°	18330.9	18458.4	18743.7	19208.1	20455.6	22207.1	23743.0	23788.6	22981.1	25036.1	22198.0
57.5°	19560.2	19775.7	20264.4	20926.1	22507.6	24529.2	26593.3	26623.6	25591.6	27045.5	24365.2
60°	18941.0	19195.9	20313.0	21924.8	25200.0	28581.5	29999.0	29826.0	28132.2	29334.2	27009.1
62.5°	16269.8	16315.4	17939.3	20458.7	26028.6	34002.7	35068.1	34336.6	31522.7	32236.1	29695.4
65°	10529.9	10827.3	12114.3	15644.5	23305.9	37010.8	43949.7	42259.0	36276.2	35529.5	31944.7
67.5°	6647.6	6571.6	7105.9	8933.2	16030.0	34360.9	51529.2	51262.1	42492.7	37608.7	31407.4
69°	5512.3	5597.3	5779.4	6847.9	11030.7	29337.3	52424.6	54270.1	45506.9	37444.9	29455.7
70°	4999.3	5038.8	5230.0	6070.8	8511.3	24571.6	50955.4	54188.1	46690.7	36758.9	28041.1
72.5°	3967.3	3964.3	4292.1	5050.9	6362.2	14026.7	41840.2	47045.9	45367.3	33565.6	23169.3
75°	3014.2	3062.7	3424.0	4273.8	5861.4	7664.4	29197.6	36230.7	36233.7	26511.3	14457.7
77.5°	2173.4	2203.7	2625.6	3587.9	5521.4	6213.5	19447.9	25986.1	24429.0	12147.7	4544.0
80°	1423.6	1441.8	1763.6	2841.1	4978.1	5861.4	11531.6	15905.5	11522.4	3223.6	1502.5
82.5°	780.1	871.2	1077.6	1839.4	3994.6	5415.1	7008.8	8049.9	4322.4	1435.8	783.2
85°	391.6	415.9	607.1	1074.5	2610.4	4480.2	4880.9	4616.9	2231.0	713.3	406.8
87.5°	115.3	145.7	252.0	415.9	1059.3	2334.2	2716.7	2437.4	859.0	258.0	85.0
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°	15040.5	15040.5	15040.5	15040.5	15040.5	15040.5	15040.5	15040.5	15040.5	15040.5	15040.5
2.5°	14916.0	14861.3	14618.5	14400.0	14199.6	13987.2	13808.1	13650.3	13665.5	13668.4	13507.6
5°	14576.0	14451.6	13990.3	13559.2	13195.0	12733.5	12339.0	12084.0	11956.5	11786.5	11847.2
7.5°	14114.7	13874.8	13234.4	12518.1	11847.2	11249.2	10599.6	10153.5	9868.1	9591.9	9628.3
10°	13638.1	13252.6	12320.7	11373.7	10505.6	9549.4	8720.7	8010.5	7482.3	7285.0	7154.4
12.5°	13149.4	12642.5	11458.7	10199.0	9000.0	7855.7	6680.9	5919.1	5336.2	5026.6	5066.1
15°	12703.2	12087.0	10560.2	9024.3	7467.1	6104.2	4932.5	4207.1	3800.4	3715.3	3763.9
17.5°	12290.4	11482.9	9719.4	7882.9	6064.7	4577.4	3706.3	3296.4	3132.5	3087.0	3084.0
20°	11865.4	10970.0	8775.4	6662.7	4726.1	3548.4	3041.5	2850.3	2819.9	2838.1	2841.1
22.5°	11434.4	10335.6	7804.1	5451.6	3763.9	2901.9	2659.0	2607.4	2631.7	2674.2	2680.3
25°	11036.8	9777.1	6869.1	4389.2	3005.1	2549.8	2431.4	2431.4	2486.0	2549.8	2552.8
27.5°	10708.9	9236.7	5937.3	3484.7	2516.3	2294.7	2255.3	2276.6	2352.4	2401.0	2404.0
30°	10438.8	8732.9	5057.0	2792.6	2212.8	2091.4	2082.3	2118.7	2173.4	2218.9	2221.9
32.5°	10235.4	8289.7	4234.4	2346.3	2003.4	1936.6	1933.5	1960.9	1991.2	2003.4	2015.5
35°	10156.5	7922.4	3481.6	2064.1	1863.8	1821.3	1821.3	1818.2	1830.3	1836.4	1842.5
37.5°	10220.3	7640.1	2898.8	1881.9	1760.6	1730.2	1712.0	1693.8	1687.7	1687.7	1690.7
40°	10490.4	7491.4	2464.7	1763.6	1687.7	1642.2	1608.8	1587.5	1566.2	1572.3	1578.4
42.5°	11064.1	7518.7	2170.3	1684.6	1623.9	1560.2	1511.7	1487.4	1472.2	1490.4	1487.4
45°	11977.7	7791.9	1982.1	1630.0	1560.2	1478.2	1432.7	1408.5	1408.5	1435.8	1444.9
47.5°	13255.6	8314.0	1881.9	1587.5	1511.7	1414.5	1369.0	1350.8	1356.9	1402.4	1405.4
50°	14815.8	9221.5	1863.8	1566.2	1487.4	1369.0	1317.4	1299.2	1314.3	1362.9	1369.0
52.5°	16537.0	10390.3	1951.8	1569.3	1466.1	1341.7	1274.9	1247.6	1262.7	1302.2	1314.3
55°	18576.8	11853.3	2179.4	1581.4	1435.8	1326.5	1244.5	1183.8	1202.1	1229.3	1232.4
57.5°	20659.0	13698.8	2580.1	1584.5	1411.4	1299.2	1192.9	1114.0	1114.0	1132.2	1141.3
60°	23202.7	15708.2	3108.3	1587.5	1414.5	1259.7	1123.1	1035.0	1022.9	1032.1	1035.0
62.5°	25728.1	17389.9	3196.3	1578.4	1444.9	1220.2	1047.2	956.1	934.9	931.8	925.8
65°	26842.2	17077.2	2619.5	1535.9	1478.2	1196.0	986.5	880.2	843.8	831.7	831.7
67.5°	25027.0	14445.5	1969.9	1478.2	1457.0	1171.7	928.9	816.5	774.0	749.7	749.7
69°	23321.1	12848.9	1769.7	1438.8	1402.4	1132.2	892.4	783.2	731.6	704.2	695.1
70°	22003.7	11750.1	1684.6	1405.4	1350.8	1086.6	865.1	758.9	701.2	670.8	664.8
72.5°	17559.9	9218.6	1475.2	1277.9	1150.4	913.7	768.0	682.9	628.4	594.9	585.8
75°	10120.0	4996.3	1223.3	1111.0	925.8	710.3	649.6	594.9	552.4	522.1	513.0
77.5°	3114.3	1930.5	886.4	877.3	680.0	549.4	519.1	497.8	467.5	434.1	428.0
80°	1311.3	983.4	601.0	591.9	452.3	382.5	373.3	370.4	358.1	330.9	321.7
82.5°	719.4	555.5	418.9	364.3	273.2	221.6	230.7	233.7	224.6	197.3	179.1
85°	352.1	303.6	203.3	163.9	124.4	78.9	75.9	91.1	85.0	60.7	66.8
87.5°	69.8	85.0	54.7	24.3	12.1	0.0	0.0	0.0	0.0	0.0	0.0
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)