

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: P651566

Luminaire Tested: **GALN-SA8D-840-U-SL3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P651566
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-SA8D-840-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 4000K, 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: 52071.3 lumens
Efficiency: N/A
Efficacy: 105.6 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

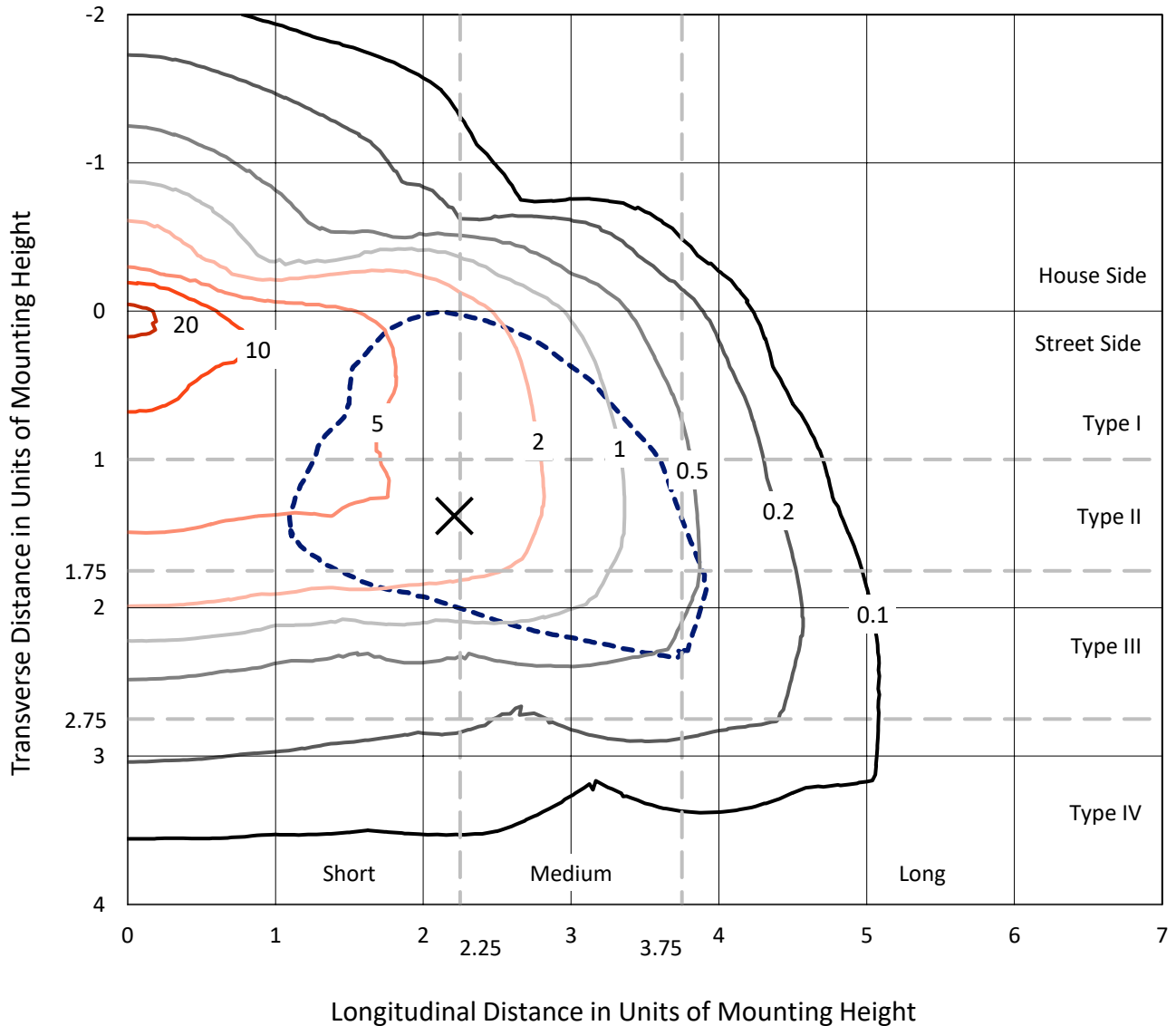
Input Watts (W): 493
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

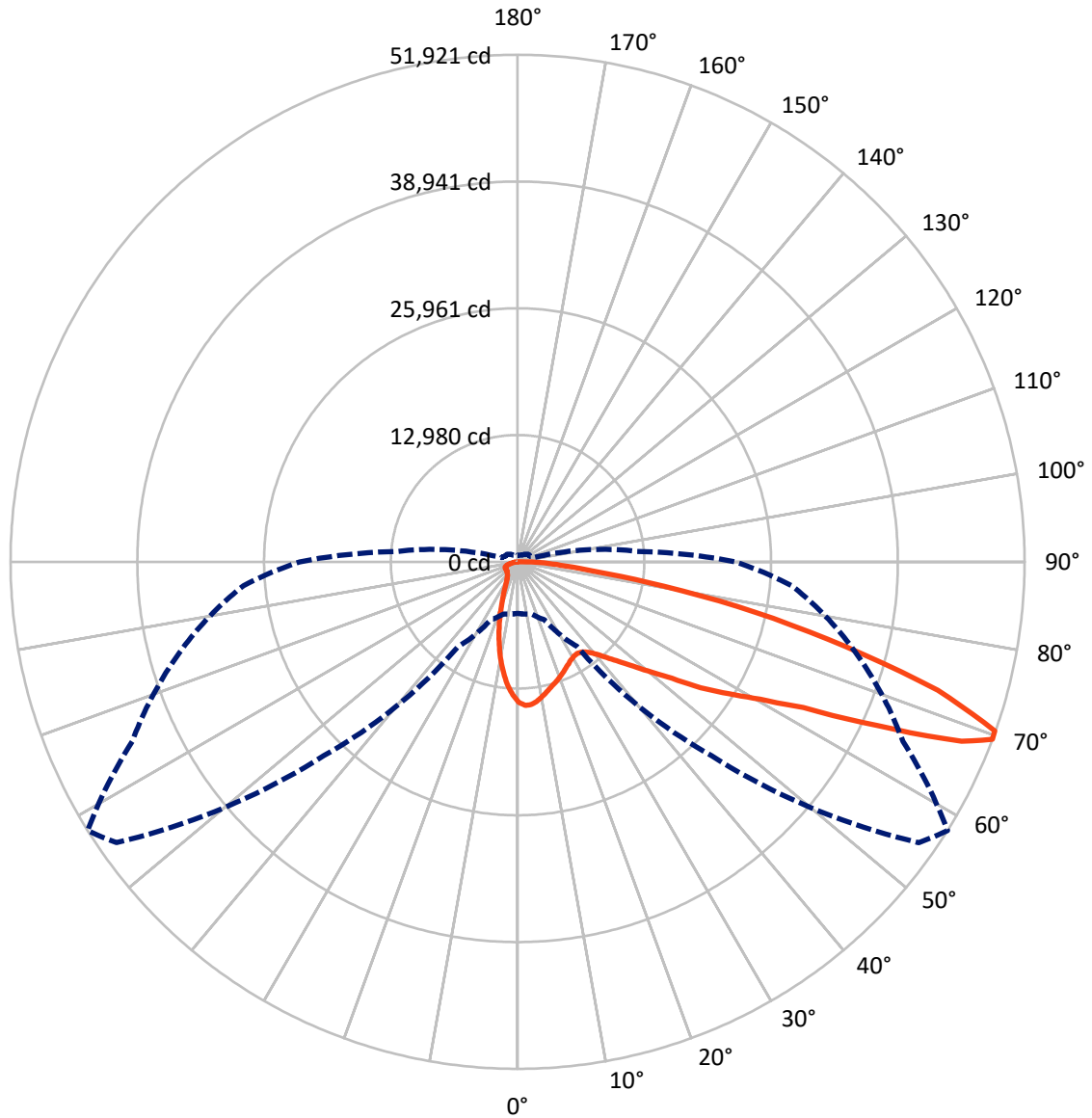
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 23 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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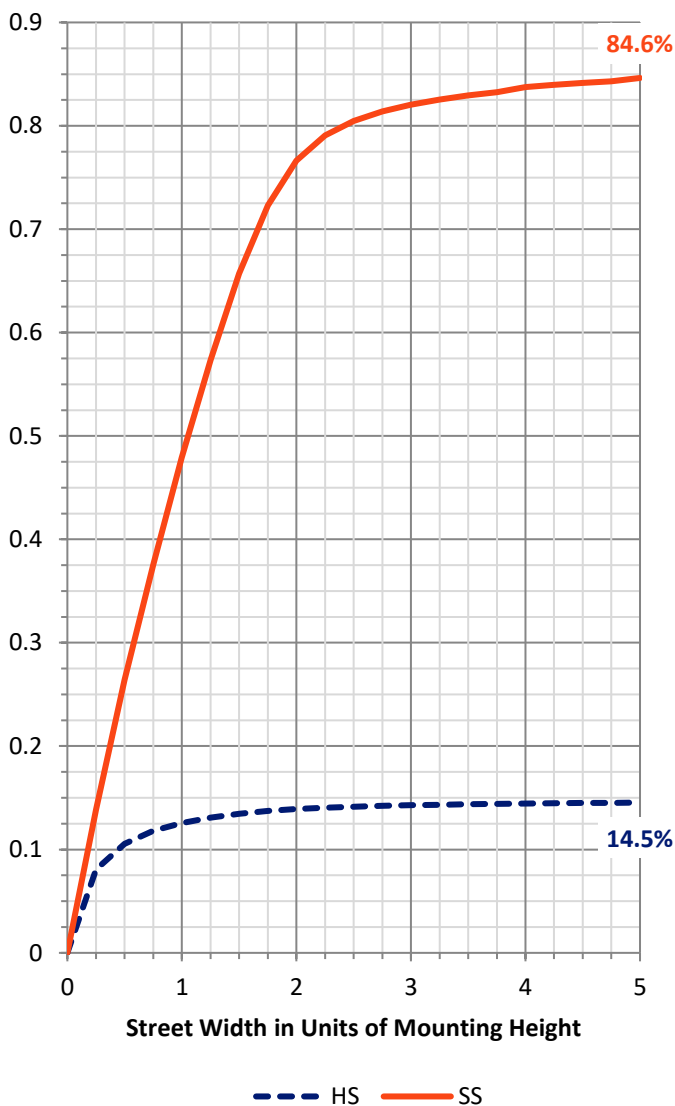
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7631.1	0.0	7631.1
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	44440.3	0.0	44440.3
	% Fixture	85.3	0.0	85.3
Total	Lumens	52071.3	0.0	52071.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1222.0	2.3
10°-20°	2683.3	5.2
20°-30°	3466.9	6.7
30°-40°	4502.8	8.6
40°-50°	6546.5	12.6
50°-60°	10446.0	20.1
60°-70°	13954.6	26.8
70°-80°	8044.3	15.4
80°-90°	1204.9	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°	52071.3	100.0
0°-180°	52071.3	100.0

Coefficient of Utilization

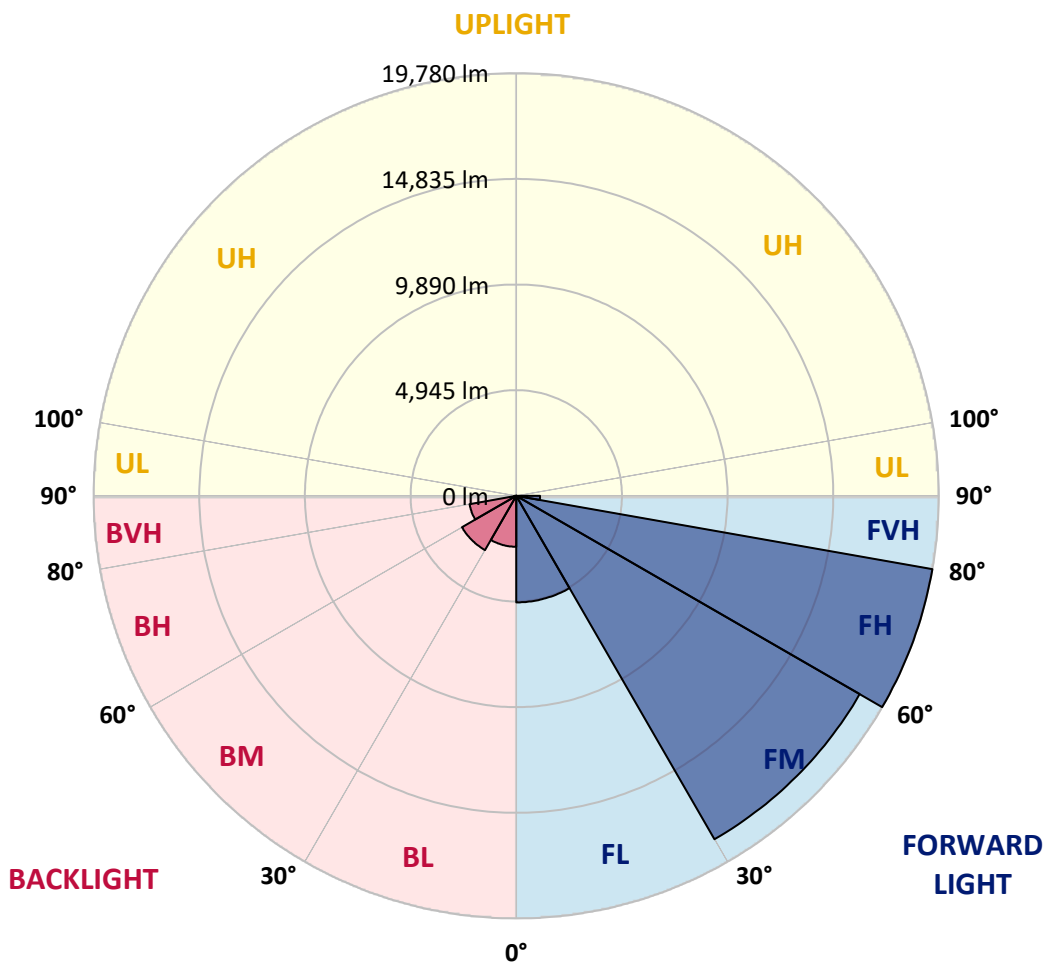


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4987.1	9.6			
FM (30°-60°)	18560.7	35.6			
FH (60°-80°)	19779.9	38.0			G5
FVH (80°-90°)	1112.6	2.1			G5
BL (0°-30°)	2385.2	4.6	B3/2500		
BM (30°-60°)	2934.6	5.6	B3/5000		
BH (60°-80°)	2219.0	4.3	B3/2500		G3/2500
BVH (80°-90°)	92.3	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°	14389.5	14389.5	14389.5	14389.5	14389.5	14389.5	14389.5	14389.5	14389.5	14389.5	14389.5
2.5°	14923.8	14964.5	14952.9	14938.3	14915.1	14851.2	14746.7	14729.3	14662.4	14520.1	14343.0
5°	14694.4	14729.3	14732.1	14752.5	14781.5	14769.9	14694.4	14685.7	14587.0	14395.3	14099.1
7.5°	13907.4	13953.9	14055.5	14168.7	14270.4	14366.2	14389.5	14404.0	14343.0	14122.3	13727.4
10°	13021.7	13068.1	13114.6	13283.0	13532.8	13771.0	13968.4	13994.5	14009.0	13805.8	13323.7
12.5°	12040.1	12136.0	12234.7	12484.4	12818.4	13193.0	13541.5	13596.7	13695.4	13541.5	12975.2
15°	11206.7	11305.4	11447.7	11671.3	12075.0	12615.1	13105.9	13195.9	13390.5	13312.1	12650.0
17.5°	10628.7	10663.6	10762.4	11017.9	11453.5	12022.7	12679.0	12859.1	13169.8	13149.5	12371.2
20°	10172.8	10216.4	10277.4	10434.2	10887.2	11488.3	12281.1	12513.5	12934.6	13004.2	12095.3
22.5°	9981.2	10013.1	10004.4	10088.6	10396.4	11000.4	11877.5	12153.4	12725.4	12905.5	11839.8
25°	9992.8	10021.8	9978.2	9957.9	10140.9	10570.7	11456.4	11807.8	12557.1	12838.7	11607.4
27.5°	10187.4	10207.6	10126.4	10045.1	10059.5	10303.5	11107.9	11497.1	12414.8	12867.7	11412.9
30°	10448.7	10486.4	10434.2	10335.5	10228.0	10239.6	10884.3	11267.6	12347.9	12969.4	11319.9
32.5°	10785.6	10820.4	10797.2	10718.8	10579.4	10425.5	10829.1	11183.4	12353.8	13175.6	11299.6
35°	11139.9	11209.5	11247.3	11241.5	11128.3	10861.1	11047.0	11340.2	12493.1	13521.2	11418.7
37.5°	11540.6	11598.7	11761.3	11865.8	11761.3	11450.6	11537.7	11741.0	12800.9	14020.6	11680.0
40°	11929.8	12016.9	12255.1	12580.3	12539.6	12266.7	12286.9	12420.6	13344.1	14764.1	12191.1
42.5°	12336.3	12440.8	12856.1	13338.2	13434.0	13222.0	13277.2	13396.3	14116.5	15795.0	13068.1
45°	12859.1	12983.9	13495.0	14096.2	14473.7	14343.0	14499.8	14557.9	15150.4	17136.7	14223.9
47.5°	13532.8	13678.0	14308.2	15057.4	15591.7	15710.8	15983.8	15949.0	16431.0	18725.2	15722.4
50°	14668.3	14749.5	15344.9	16108.7	16843.4	17380.6	17676.8	17732.0	18019.5	20270.1	17398.0
52.5°	16018.6	16091.3	16521.0	17188.9	18109.5	19247.9	19979.7	19799.7	19869.4	22151.9	19358.3
55°	17537.5	17659.4	17932.4	18376.7	19570.2	21245.9	22715.3	22758.9	21986.4	23952.4	21237.2
57.5°	18713.6	18919.7	19387.3	20020.4	21533.4	23467.5	25442.2	25471.3	24483.9	25874.9	23310.7
60°	18121.2	18365.1	19433.7	20975.8	24109.3	27344.4	28700.6	28535.0	26914.5	28064.6	25840.1
62.5°	15565.6	15609.1	17162.8	19573.2	24902.1	32531.0	33550.3	32850.4	30158.3	30840.8	28410.2
65°	10074.1	10358.7	11590.0	14967.4	22297.2	35408.9	42047.5	40429.9	34706.1	33991.7	30562.0
67.5°	6359.8	6287.2	6798.3	8546.6	15336.2	32873.6	49298.8	49043.3	40653.5	35980.9	30048.0
69°	5273.7	5355.1	5529.2	6551.5	10553.3	28067.4	50155.6	51921.2	43537.2	35824.2	28180.7
70°	4782.9	4820.7	5003.6	5808.0	8142.9	23508.1	48750.0	51842.8	44669.8	35167.8	26827.5
72.5°	3795.6	3792.7	4106.3	4832.3	6086.8	13419.5	40029.2	45009.6	43403.7	32112.7	22166.5
75°	2883.7	2930.1	3275.8	4088.9	5607.7	7332.7	27933.9	34662.5	34665.4	25363.8	13831.9
77.5°	2079.3	2108.3	2512.0	3432.5	5282.4	5944.5	18606.1	24861.4	23371.6	11621.9	4347.3
80°	1362.0	1379.4	1687.2	2718.2	4762.6	5607.7	11032.4	15217.1	11023.7	3084.1	1437.5
82.5°	746.3	833.4	1030.9	1759.9	3821.7	5180.8	6705.4	7701.5	4135.4	1373.6	749.2
85°	374.6	397.9	580.8	1028.0	2497.4	4286.3	4669.7	4417.0	2134.5	682.5	389.1
87.5°	110.3	139.4	241.0	397.9	1013.5	2233.2	2599.1	2331.9	821.8	246.8	81.3
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°	14389.5	14389.5	14389.5	14389.5	14389.5	14389.5	14389.5	14389.5	14389.5	14389.5	14389.5
2.5°	14270.4	14218.1	13985.8	13776.8	13585.1	13381.7	13210.4	13059.5	13073.9	13076.9	12923.0
5°	13945.1	13826.1	13384.7	12972.3	12623.8	12182.4	11804.9	11561.0	11438.9	11276.4	11334.4
7.5°	13503.8	13274.3	12661.6	11976.3	11334.4	10762.4	10140.9	9714.0	9441.0	9176.7	9211.6
10°	13047.8	12679.0	11787.5	10881.4	10050.9	9136.1	8343.3	7663.7	7158.4	6969.7	6844.8
12.5°	12580.3	12095.3	10962.7	9757.5	8610.4	7515.6	6391.8	5662.9	5105.3	4809.1	4846.9
15°	12153.4	11563.8	10103.1	8633.7	7144.0	5840.0	4719.0	4025.0	3635.8	3554.6	3601.0
17.5°	11758.4	10986.0	9298.7	7541.8	5802.2	4379.3	3545.8	3153.8	2997.0	2953.4	2950.5
20°	11351.8	10495.2	8395.5	6374.4	4521.6	3394.8	2909.9	2726.9	2697.8	2715.3	2718.2
22.5°	10939.5	9888.2	7466.2	5215.6	3601.0	2776.2	2543.9	2494.6	2517.8	2558.5	2564.3
25°	10559.1	9353.9	6571.8	4199.2	2875.0	2439.4	2326.1	2326.1	2378.4	2439.4	2442.3
27.5°	10245.4	8837.0	5680.3	3333.8	2407.4	2195.4	2157.7	2178.0	2250.6	2297.1	2300.0
30°	9987.0	8354.9	4838.1	2671.7	2117.0	2000.9	1992.2	2027.0	2079.3	2122.9	2125.7
32.5°	9792.4	7930.9	4051.1	2244.8	1916.6	1852.8	1849.9	1876.0	1905.0	1916.6	1928.2
35°	9716.9	7579.5	3330.9	1974.8	1783.1	1742.4	1742.4	1739.5	1751.1	1756.9	1762.7
37.5°	9777.9	7309.5	2773.4	1800.5	1684.4	1655.3	1637.8	1620.4	1614.6	1614.6	1617.6
40°	10036.3	7167.2	2358.1	1687.2	1614.6	1571.1	1539.1	1518.8	1498.5	1504.3	1510.1
42.5°	10585.2	7193.3	2076.3	1611.8	1553.7	1492.7	1446.2	1423.0	1408.4	1425.9	1423.0
45°	11459.3	7454.6	1896.4	1559.5	1492.7	1414.2	1370.7	1347.5	1347.5	1373.6	1382.4
47.5°	12681.9	7954.2	1800.5	1518.8	1446.2	1353.3	1309.7	1292.3	1298.1	1341.6	1344.6
50°	14174.6	8822.4	1783.1	1498.5	1423.0	1309.7	1260.3	1242.9	1257.5	1303.9	1309.7
52.5°	15821.1	9940.5	1867.3	1501.4	1402.6	1283.6	1219.7	1193.5	1208.1	1245.9	1257.5
55°	17772.7	11340.2	2085.1	1513.0	1373.6	1269.1	1190.7	1132.6	1150.0	1176.1	1179.0
57.5°	19764.8	13105.9	2468.4	1515.9	1350.4	1242.9	1141.3	1065.8	1065.8	1083.2	1092.0
60°	22198.4	15028.3	2973.7	1518.8	1353.3	1205.2	1074.5	990.3	978.7	987.3	990.3
62.5°	24614.6	16637.2	3058.0	1510.1	1382.4	1167.4	1001.9	914.8	894.4	891.5	885.7
65°	25680.4	16338.1	2506.2	1469.5	1414.2	1144.2	943.8	842.2	807.4	795.7	795.7
67.5°	23943.8	13820.3	1884.7	1414.2	1394.0	1121.0	888.6	781.2	740.5	717.3	717.3
69°	22311.6	12292.7	1693.0	1376.5	1341.6	1083.2	853.8	749.2	699.9	673.7	665.1
70°	21051.3	11241.5	1611.8	1344.6	1292.3	1039.6	827.6	726.0	670.9	641.8	636.0
72.5°	16799.8	8819.6	1411.4	1222.6	1100.6	874.1	734.7	653.4	601.1	569.2	560.4
75°	9682.0	4780.1	1170.3	1062.9	885.7	679.5	621.5	569.2	528.6	499.5	490.8
77.5°	2979.5	1847.0	848.0	839.2	650.5	525.6	496.6	476.3	447.2	415.3	409.5
80°	1254.5	940.9	575.0	566.2	432.7	365.9	357.2	354.3	342.7	316.6	307.8
82.5°	688.3	531.4	400.7	348.5	261.4	212.0	220.7	223.6	214.9	188.7	171.3
85°	336.9	290.4	194.6	156.8	119.1	75.5	72.6	87.1	81.3	58.1	63.9
87.5°	66.8	81.3	52.3	23.2	11.6	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)