

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: P319821

Luminaire Tested: **GLEON-SA7D-827-U-SL3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319821
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-22)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA7D-827-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 2700K, 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: 40347 lumens
Efficiency: N/A
Efficacy: 90.1 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

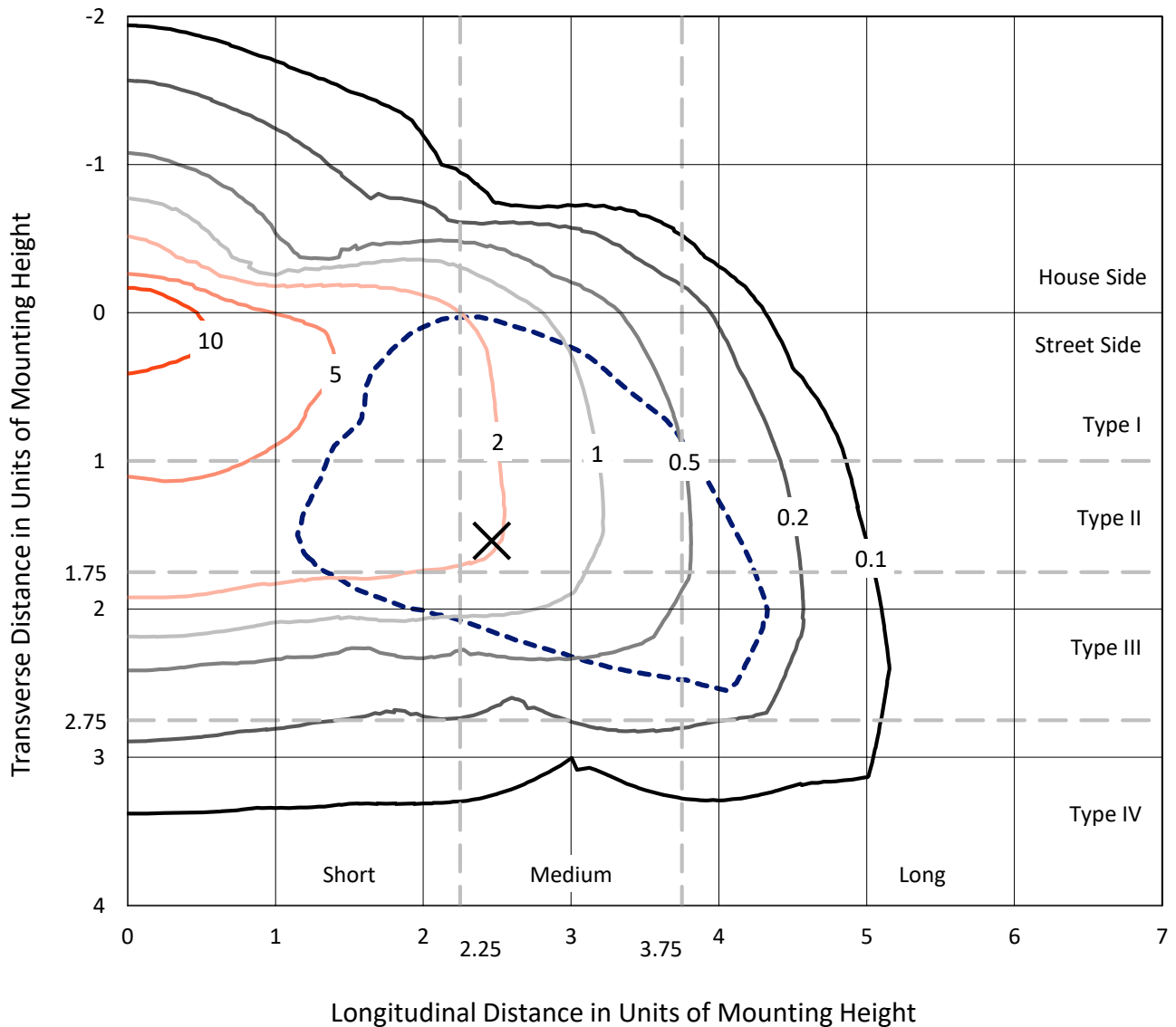
Input Watts (W): 448
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

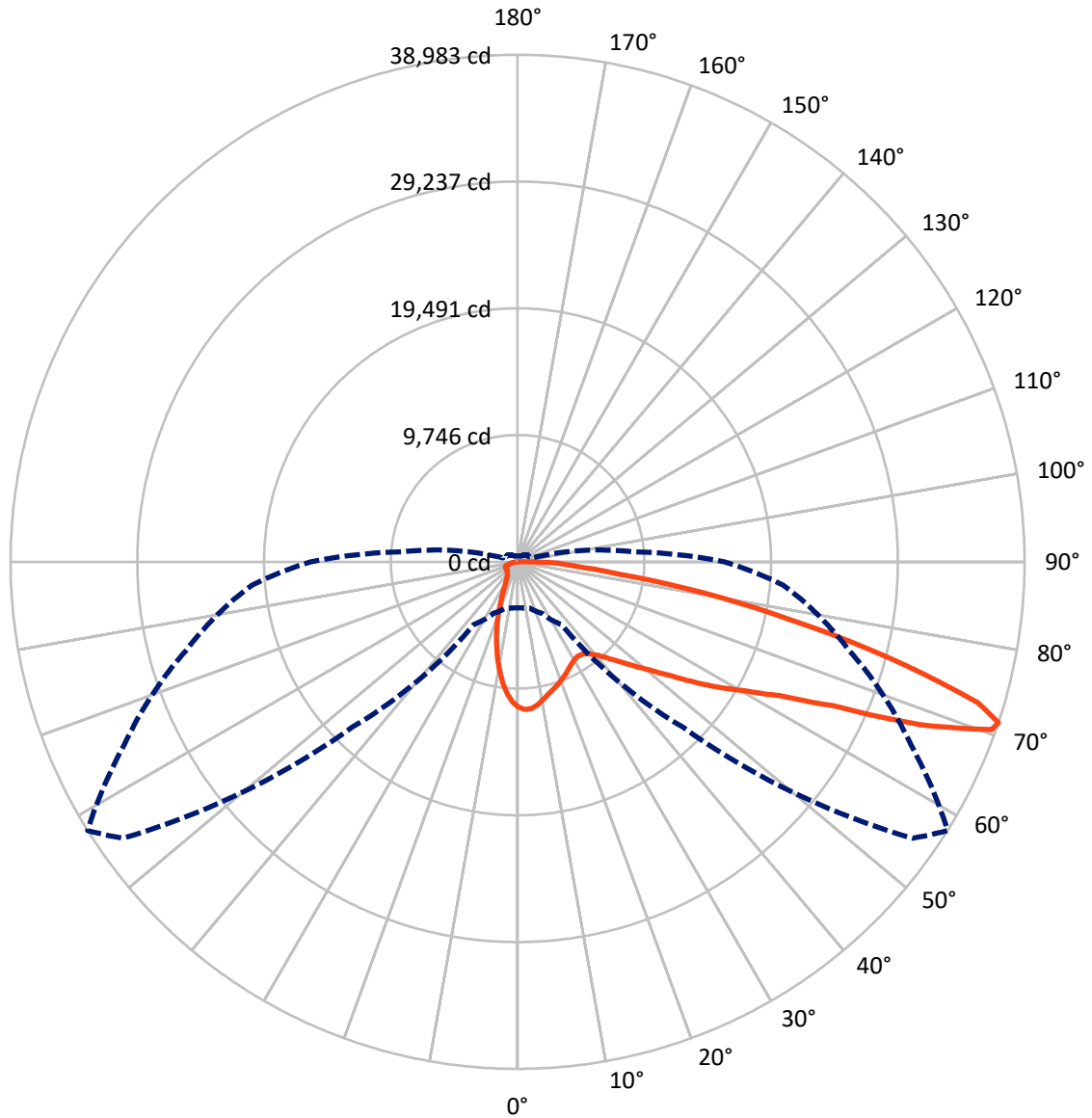
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.9 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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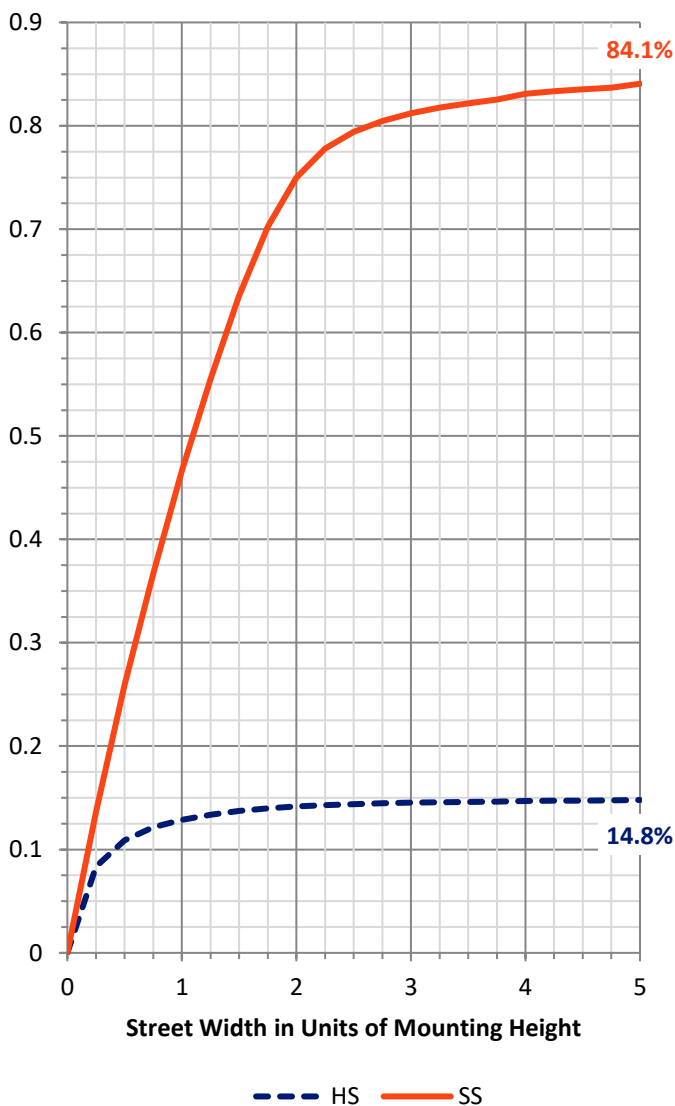
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6032.2	0.0	6032.2
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	34314.8	0.0	34314.8
	% Fixture	85.0	0.0	85.0
Total	Lumens	40347.0	0.0	40347.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	964.4	2.4
10°-20°	2144.4	5.3
20°-30°	2725.4	6.8
30°-40°	3471.6	8.6
40°-50°	4922.9	12.2
50°-60°	7618.3	18.9
60°-70°	10371.4	25.7
70°-80°	6918.9	17.1
80°-90°	1209.7	3.0
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°	40347.0	100.0
0°-180°	40347.0	100.0

Coefficient of Utilization

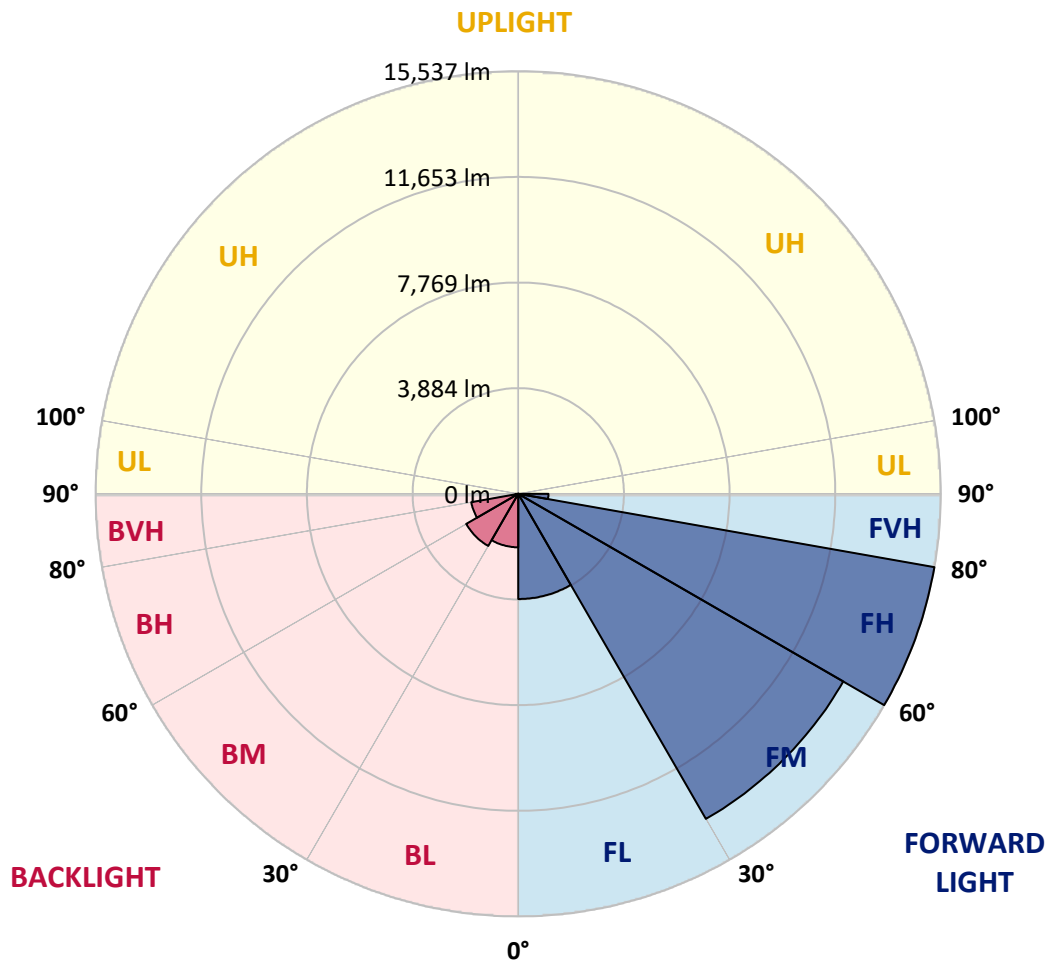


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3867.9	9.6			
FM (30°-60°)	13800.6	34.2			
FH (60°-80°)	15537.1	38.5			G5
FVH (80°-90°)	1109.2	2.7			G5
BL (0°-30°)	1966.3	4.9	B3/2500		
BM (30°-60°)	2212.2	5.5	B2/2500		
BH (60°-80°)	1753.2	4.3	B3/2500		G3/2500
BVH (80°-90°)	100.5	0.2			G2/225
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 Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	11178.8	11178.8	11178.8	11178.8	11178.8	11178.8	11178.8	11178.8	11178.8	11178.8	11178.8
2.5°	11475.4	11459.9	11465.5	11454.3	11427.6	11400.9	11361.5	11368.5	11313.7	11232.2	11131.0
5°	11258.9	11253.3	11295.5	11319.4	11339.0	11323.6	11312.3	11326.4	11246.3	11133.8	10958.2
7.5°	10805.0	10743.1	10796.5	10876.6	10952.5	11010.2	11086.1	11095.9	11045.3	10927.2	10696.8
10°	10159.9	10100.8	10179.6	10304.6	10456.4	10594.2	10747.3	10775.5	10785.3	10678.5	10398.8
12.5°	9490.9	9445.9	9524.6	9700.3	9951.9	10164.1	10408.6	10450.8	10537.9	10466.3	10123.3
15°	8892.2	8875.3	8970.9	9143.7	9433.3	9757.9	10110.7	10188.0	10335.6	10311.7	9908.3
17.5°	8375.0	8370.8	8443.8	8625.1	8945.6	9356.0	9814.1	9944.8	10164.1	10192.2	9731.2
20°	7989.9	7981.5	8032.1	8165.6	8495.8	8961.0	9493.7	9673.6	9989.8	10088.2	9548.5
22.5°	7783.3	7781.9	7783.3	7846.5	8116.4	8549.3	9181.7	9400.9	9819.8	10005.3	9346.1
25°	7748.2	7743.9	7713.0	7706.0	7859.2	8204.9	8872.5	9114.2	9658.1	9947.7	9153.6
27.5°	7839.5	7845.1	7804.4	7738.3	7769.2	7978.6	8604.1	8862.7	9528.8	9936.4	9020.1
30°	8029.2	8026.4	7991.3	7922.4	7862.0	7894.3	8412.9	8671.5	9441.7	9985.6	8928.7
32.5°	8238.6	8254.1	8247.1	8209.1	8119.2	7989.9	8355.3	8608.3	9416.4	10103.7	8889.4
35°	8490.2	8507.1	8557.7	8587.2	8481.8	8273.8	8479.0	8698.2	9489.5	10325.7	8952.6
37.5°	8729.1	8772.7	8914.7	9039.7	8949.8	8717.9	8807.9	8963.9	9715.8	10675.7	9122.7
40°	9004.6	9042.6	9274.5	9540.1	9526.0	9285.7	9337.7	9441.7	10114.9	11177.4	9430.5
42.5°	9275.9	9351.8	9687.7	10064.3	10172.5	9960.3	10043.2	10098.0	10677.1	11842.2	9967.3
45°	9637.1	9718.6	10185.2	10639.1	10892.1	10772.6	10904.8	10925.8	11384.0	12747.3	10747.3
47.5°	10183.8	10276.5	10820.4	11296.9	11683.4	11696.0	11913.9	11905.4	12266.6	13783.1	11729.7
50°	11035.5	11169.0	11614.5	12060.0	12529.4	12790.8	13081.8	13041.0	13324.9	14886.3	12861.1
52.5°	12151.4	12213.2	12543.5	12872.4	13455.6	14041.7	14459.1	14422.6	14525.2	16020.5	14145.7
55°	13308.0	13354.4	13490.8	13670.6	14454.9	15410.6	16293.2	16235.6	15975.6	17198.3	15414.8
57.5°	14348.1	14442.2	14536.4	14610.9	15461.2	16841.3	18169.4	18173.7	17549.6	18468.8	16726.1
60°	14509.7	14592.6	15215.2	15802.7	17182.8	18749.9	20177.8	20135.6	19178.5	19847.5	18187.7
62.5°	12826.0	13012.9	14052.9	15615.8	18841.2	22241.0	22739.9	22687.9	21126.5	21546.7	19889.7
65°	9191.5	9403.8	10658.8	13007.3	18037.3	26087.7	27363.8	26663.9	23782.7	23636.6	21882.6
67.5°	5302.7	5353.3	5897.2	7783.3	13733.9	26288.6	34417.7	33438.1	27907.7	26007.5	22858.0
70°	3921.2	3919.8	4049.1	4789.7	7431.9	21455.3	37772.4	38650.8	32250.5	26787.6	21479.2
71°	3545.9	3550.1	3694.9	4359.7	5886.0	17958.6	37059.9	38982.5	33394.5	26402.5	20481.4
72.5°	3032.9	3047.0	3248.0	3909.9	4951.3	12384.7	33990.4	36992.4	33937.0	25452.4	18919.9
75°	2300.7	2333.0	2611.3	3295.7	4525.5	6280.9	24946.4	29539.4	30147.9	22458.8	14058.5
77.5°	1641.5	1678.1	1992.9	2771.5	4302.0	4733.5	16706.4	21546.7	22186.2	14393.0	6341.3
80°	1037.2	1080.8	1318.3	2205.1	4042.0	4494.6	10498.6	14483.0	12098.0	4605.6	1613.4
82.5°	608.6	642.3	818.0	1440.6	3301.4	4328.7	6176.9	8027.8	4708.2	1391.4	733.6
85°	352.8	368.2	510.2	917.7	2397.7	4085.6	4538.1	4487.5	2043.5	680.2	347.1
87.5°	164.4	182.7	302.2	479.3	1330.9	2961.2	3586.7	3099.0	1270.5	319.0	163.0
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°	11178.8	11178.8	11178.8	11178.8	11178.8	11178.8	11178.8	11178.8	11178.8	11178.8	11178.8
2.5°	11081.8	11057.9	10958.2	10869.6	10776.9	10656.0	10522.5	10505.6	10424.1	10439.6	10411.4
5°	10862.6	10802.2	10561.8	10344.0	10086.8	9856.3	9606.1	9490.9	9325.0	9313.8	9271.6
7.5°	10549.2	10436.7	10064.3	9651.1	9237.9	8844.4	8455.1	8199.3	7937.9	7826.9	7817.0
10°	10196.4	10005.3	9457.2	8845.8	8249.9	7675.1	7118.5	6706.7	6335.7	6160.0	6153.0
12.5°	9861.9	9579.4	8827.5	7995.5	7180.4	6435.5	5672.3	5131.2	4666.0	4510.0	4444.0
15°	9578.0	9180.3	8214.8	7150.8	6161.4	5127.0	4258.5	3689.3	3259.2	3110.2	3082.1
17.5°	9302.6	8791.0	7586.5	6297.7	5101.7	3964.7	3094.8	2671.7	2442.6	2382.2	2380.8
20°	9028.5	8390.4	6930.2	5425.0	4077.2	2965.5	2379.4	2189.7	2112.4	2105.3	2094.1
22.5°	8717.9	7966.0	6240.1	4549.4	3181.9	2331.6	2022.4	1946.5	1936.7	1962.0	1962.0
25°	8427.0	7544.4	5540.2	3692.1	2475.0	1945.1	1806.0	1790.5	1817.2	1862.2	1866.4
27.5°	8155.7	7138.2	4857.2	2930.3	1983.1	1713.2	1655.6	1673.9	1721.7	1773.7	1775.1
30°	7932.3	6754.5	4193.8	2309.1	1675.3	1540.4	1530.5	1567.1	1619.1	1659.8	1669.7
32.5°	7759.4	6427.0	3552.9	1856.6	1474.3	1411.1	1419.5	1450.4	1482.7	1505.2	1520.7
35°	7679.3	6146.0	2961.2	1565.7	1346.4	1311.3	1322.5	1339.4	1353.4	1370.3	1382.9
37.5°	7693.3	5928.1	2432.8	1384.4	1260.7	1242.4	1242.4	1242.4	1242.4	1250.8	1252.2
40°	7824.0	5803.0	2002.7	1269.1	1203.1	1183.4	1167.9	1153.9	1142.6	1148.2	1145.4
42.5°	8158.5	5791.8	1687.9	1196.0	1156.7	1124.3	1093.4	1073.8	1059.7	1065.3	1068.1
45°	8726.3	5932.3	1475.7	1144.0	1113.1	1063.9	1024.6	1003.5	993.6	1011.9	1014.7
47.5°	9461.4	6238.7	1346.4	1106.1	1072.3	1007.7	965.5	945.9	948.7	975.4	982.4
50°	10408.6	6736.2	1284.6	1082.2	1044.2	959.9	916.3	899.5	907.9	945.9	954.3
52.5°	11448.7	7453.0	1291.6	1075.2	1026.0	924.8	878.4	858.7	872.8	907.9	914.9
55°	12648.9	8314.5	1408.2	1085.0	999.3	902.3	847.5	813.7	825.0	857.3	862.9
57.5°	13982.7	9301.2	1643.0	1082.2	965.5	881.2	815.2	764.6	773.0	792.7	798.3
60°	15371.2	10493.0	2007.0	1090.6	950.1	855.9	771.6	708.3	705.5	722.4	725.2
62.5°	17038.1	11871.7	2423.0	1096.2	959.9	823.6	714.0	652.1	643.7	647.9	650.7
65°	18755.5	12869.6	2267.0	1073.8	990.8	796.9	663.4	597.3	581.8	579.0	580.4
67.5°	18808.9	11800.0	1589.5	1028.8	1003.5	782.8	625.4	550.9	525.6	515.8	514.4
70°	16868.0	9586.5	1238.2	981.0	952.9	760.3	590.3	513.0	475.0	459.6	458.2
71°	15920.7	8824.7	1173.5	957.1	914.9	737.9	574.8	496.1	456.8	439.9	437.1
72.5°	14435.2	7911.2	1094.8	919.2	841.9	680.2	545.3	472.2	431.5	411.8	407.6
75°	10359.4	5173.4	940.2	819.4	697.1	542.5	477.8	424.4	389.3	365.4	362.6
77.5°	3991.4	2059.0	711.1	681.6	534.1	424.4	393.5	366.8	341.5	317.6	316.2
80°	1234.0	920.6	518.6	513.0	386.5	316.2	306.4	299.4	289.5	264.2	258.6
82.5°	659.1	528.4	357.0	331.7	253.0	210.8	222.1	224.9	226.3	199.6	196.8
85°	314.8	279.7	201.0	188.3	147.6	118.1	136.3	147.6	149.0	122.3	113.8
87.5°	150.4	146.2	94.2	71.7	54.8	39.4	47.8	59.0	64.6	46.4	40.8
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)