

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: P647606

Luminaire Tested: **GALN-SA8D-835-U-SL3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P647606
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-835-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 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: 48480.2 lumens
Efficiency: N/A
Efficacy: 98.3 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

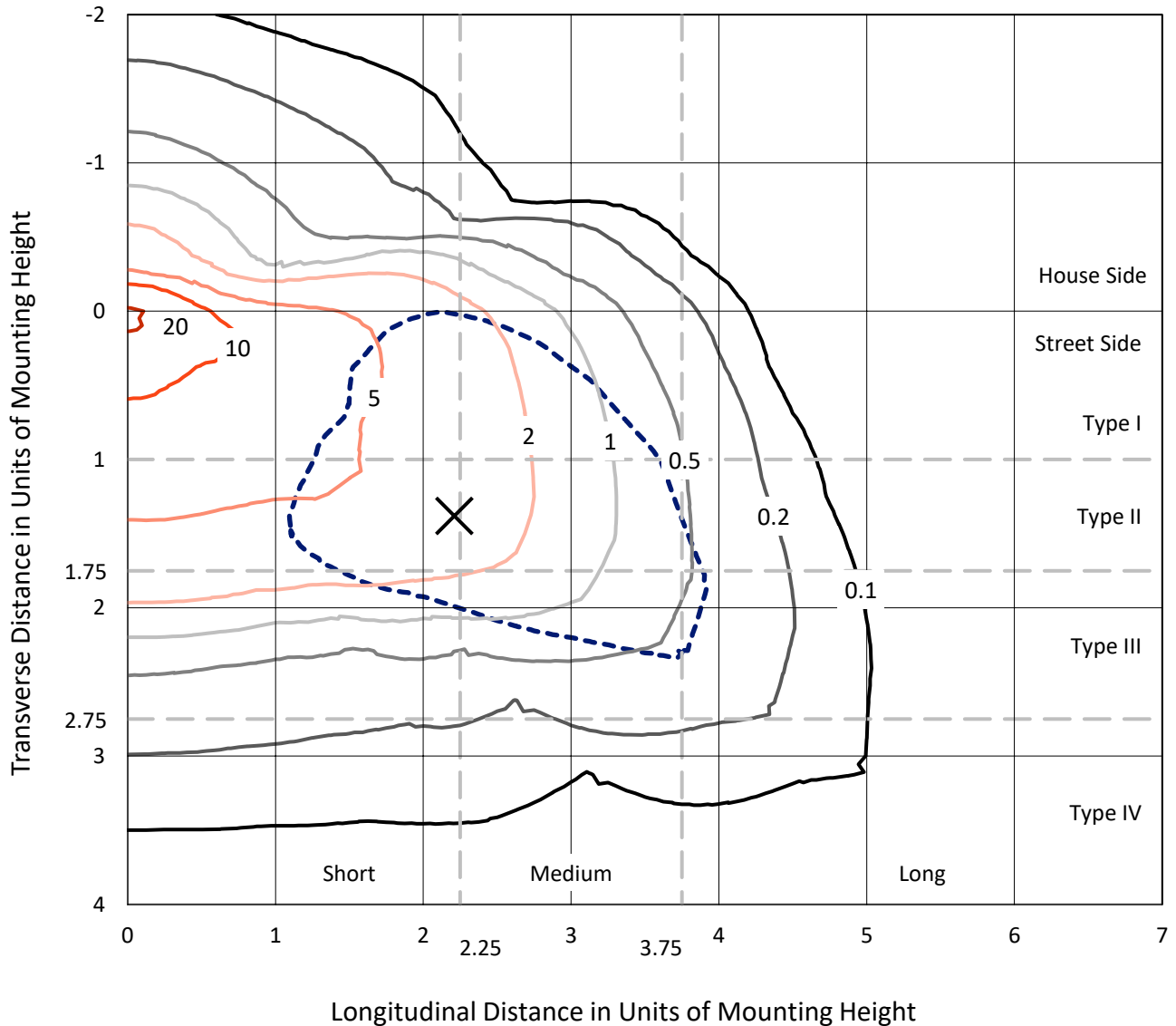
Input Watts (W): 493
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

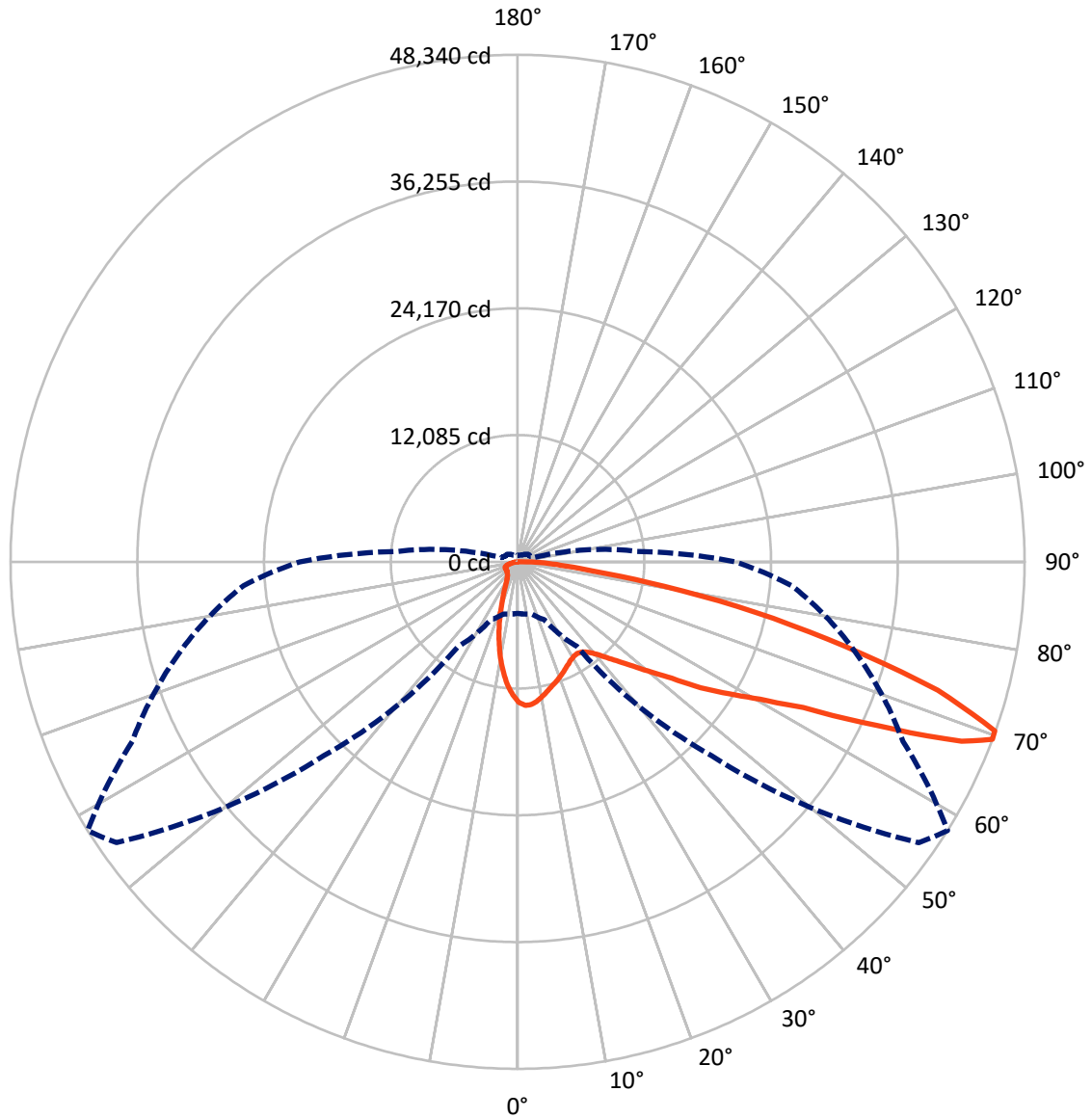
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 21.4 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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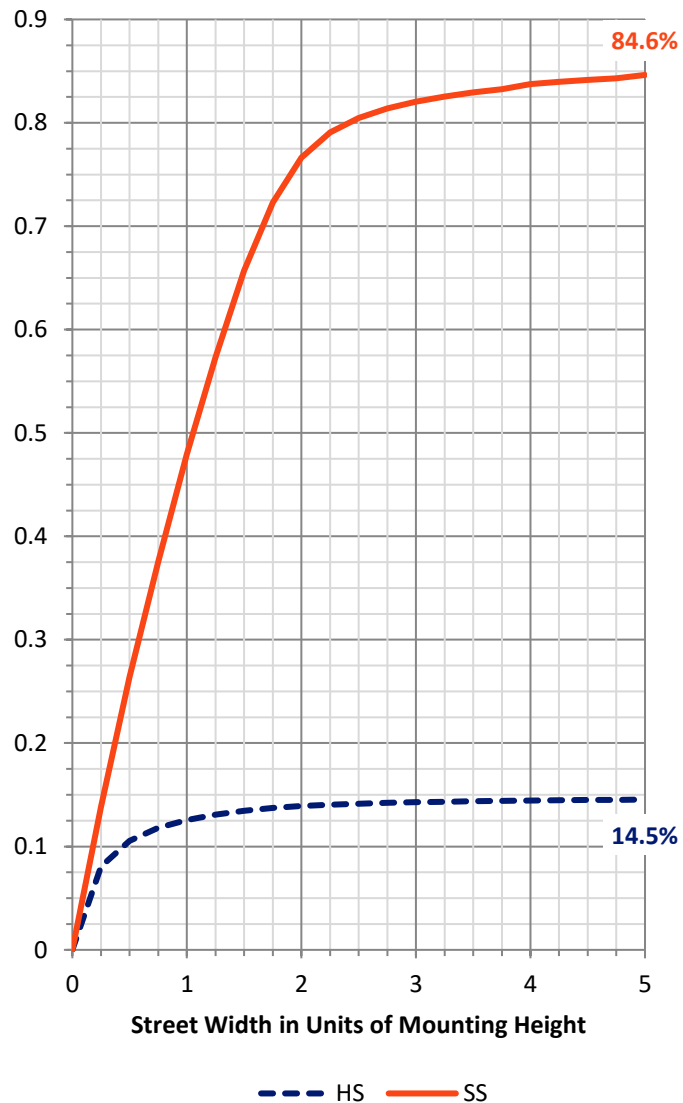
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7104.8	0.0	7104.8
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	41375.5	0.0	41375.5
	% Fixture	85.3	0.0	85.3
Total	Lumens	48480.2	0.0	48480.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1137.7	2.3
10°-20°	2498.3	5.2
20°-30°	3227.8	6.7
30°-40°	4192.3	8.6
40°-50°	6095.0	12.6
50°-60°	9725.6	20.1
60°-70°	12992.2	26.8
70°-80°	7489.5	15.4
80°-90°	1121.8	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°	48480.2	100.0
0°-180°	48480.2	100.0

Coefficient of Utilization

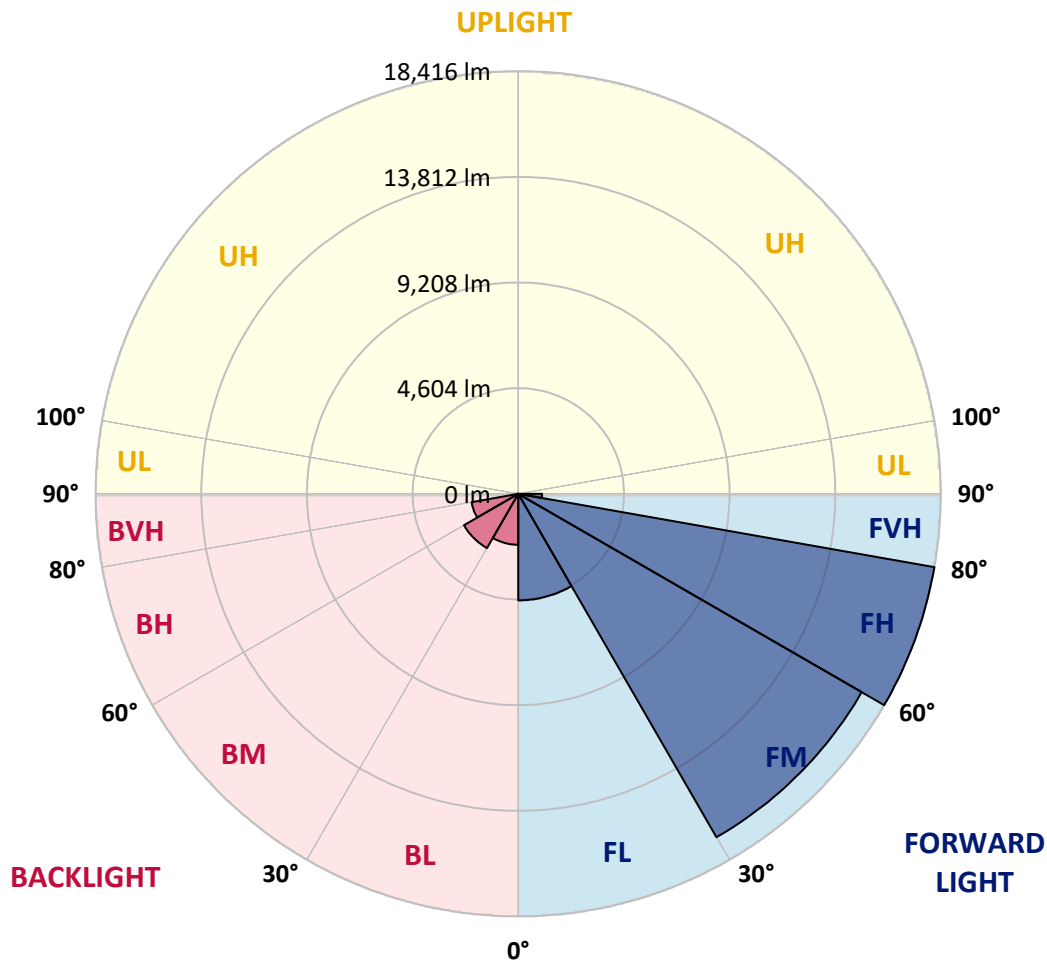


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4643.2	9.6			
FM (30°-60°)	17280.7	35.6			
FH (60°-80°)	18415.8	38.0			G5
FVH (80°-90°)	1035.8	2.1			G5
BL (0°-30°)	2220.7	4.6	B3/2500		
BM (30°-60°)	2732.2	5.6	B3/5000		
BH (60°-80°)	2065.9	4.3	B3/2500		G3/2500
BVH (80°-90°)	85.9	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°	13397.1	13397.1	13397.1	13397.1	13397.1	13397.1	13397.1	13397.1	13397.1	13397.1	13397.1
2.5°	13894.6	13932.5	13921.7	13908.1	13886.5	13827.0	13729.7	13713.5	13651.2	13518.7	13353.8
5°	13681.0	13713.5	13716.1	13735.1	13762.1	13751.3	13681.0	13672.9	13581.0	13402.5	13126.8
7.5°	12948.2	12991.5	13086.2	13191.6	13286.3	13375.4	13397.1	13410.6	13353.8	13148.4	12780.7
10°	12123.7	12166.9	12210.2	12366.9	12599.5	12821.2	13005.1	13029.4	13042.9	12853.6	12404.8
12.5°	11209.7	11299.0	11390.9	11623.4	11934.3	12283.2	12607.6	12659.0	12750.9	12607.6	12080.4
15°	10433.8	10525.7	10658.2	10866.4	11242.2	11745.1	12202.0	12285.8	12467.0	12394.0	11777.6
17.5°	9895.7	9928.2	10020.1	10258.0	10663.6	11193.5	11804.6	11972.2	12261.5	12242.6	11518.0
20°	9471.2	9511.8	9568.6	9714.6	10136.4	10696.0	11434.1	11650.5	12042.5	12107.4	11261.1
22.5°	9292.8	9322.6	9314.4	9392.9	9679.4	10241.8	11058.4	11315.2	11847.8	12015.4	11023.2
25°	9303.6	9330.6	9290.1	9271.2	9441.5	9841.7	10666.3	10993.5	11691.1	11953.3	10806.9
27.5°	9484.8	9503.7	9428.0	9352.3	9365.8	9592.9	10341.9	10704.2	11558.6	11980.3	10625.8
30°	9728.1	9763.2	9714.6	9622.7	9522.6	9533.4	10133.7	10490.6	11496.3	12075.0	10539.3
32.5°	10041.7	10074.2	10052.5	9979.6	9849.7	9706.5	10082.3	10412.2	11501.8	12266.9	10520.3
35°	10371.6	10436.5	10471.6	10466.2	10360.8	10112.1	10285.1	10558.1	11631.5	12588.7	10631.2
37.5°	10744.7	10798.8	10950.2	11047.5	10950.2	10660.9	10742.0	10931.3	11918.1	13053.7	10874.5
40°	11107.0	11188.1	11409.9	11712.7	11674.8	11420.7	11439.6	11564.0	12423.8	13745.9	11350.4
42.5°	11485.5	11582.8	11969.5	12418.3	12507.6	12310.2	12361.5	12472.4	13143.0	14705.7	12166.9
45°	11972.2	12088.5	12564.3	13124.0	13475.5	13353.8	13499.9	13553.9	14105.5	15954.9	13243.0
47.5°	12599.5	12734.7	13321.4	14019.0	14516.4	14627.3	14881.5	14849.0	15297.9	17433.8	14638.1
50°	13656.7	13732.3	14286.6	14997.7	15681.8	16181.9	16457.7	16509.1	16776.8	18872.2	16198.2
52.5°	14913.9	14981.5	15381.6	16003.5	16860.6	17920.4	18601.8	18434.2	18499.1	20624.2	18023.3
55°	16328.0	16441.5	16695.7	17109.3	18220.6	19780.7	21148.8	21189.3	20470.1	22300.5	19772.6
57.5°	17423.0	17614.9	18050.3	18639.7	20048.3	21849.1	23687.6	23714.6	22795.3	24090.4	21703.0
60°	16871.5	17098.5	18093.5	19529.2	22446.6	25458.5	26721.2	26567.1	25058.3	26129.1	24058.0
62.5°	14492.2	14532.6	15979.2	18223.3	23184.7	30287.5	31236.5	30584.8	28078.5	28713.9	26450.8
65°	9379.3	9644.3	10790.7	13935.1	20759.4	32966.9	39147.7	37641.6	32312.5	31647.5	28454.3
67.5°	5921.2	5853.6	6329.5	7957.2	14278.6	30606.5	45898.9	45661.0	37849.8	33499.5	27975.7
69°	4910.0	4985.8	5147.9	6099.6	9825.5	26131.8	46696.6	48340.4	40534.7	33353.5	26237.2
70°	4453.1	4488.2	4658.5	5407.5	7581.3	21886.9	45387.9	48267.4	41589.1	32742.5	24977.3
72.5°	3533.8	3531.1	3823.1	4499.0	5667.0	12494.0	37268.5	41905.5	40410.3	29898.1	20637.8
75°	2684.8	2728.1	3049.9	3806.9	5221.0	6827.0	26007.4	32272.0	32274.7	23614.6	12878.0
77.5°	1935.9	1962.9	2338.7	3195.8	4918.1	5534.6	17322.9	23146.8	21759.8	10820.4	4047.5
80°	1268.1	1284.3	1570.9	2530.7	4434.1	5221.0	10271.6	14167.7	10263.5	2871.4	1338.4
82.5°	694.8	776.0	959.8	1638.5	3558.1	4823.5	6242.9	7170.3	3850.2	1278.9	697.6
85°	348.7	370.4	540.7	957.1	2325.2	3990.7	4347.6	4112.4	1987.3	635.4	362.3
87.5°	102.7	129.7	224.4	370.4	943.6	2079.2	2419.9	2171.1	765.1	229.8	75.7
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°	13397.1	13397.1	13397.1	13397.1	13397.1	13397.1	13397.1	13397.1	13397.1	13397.1	13397.1
2.5°	13286.3	13237.6	13021.3	12826.6	12648.2	12458.9	12299.4	12158.8	12172.3	12175.0	12031.7
5°	12983.4	12872.6	12461.6	12077.7	11753.2	11342.2	10990.7	10763.7	10650.1	10498.7	10552.7
7.5°	12572.5	12358.9	11788.4	11150.3	10552.7	10020.1	9441.5	9044.0	8789.9	8543.9	8576.3
10°	12147.9	11804.6	10974.5	10131.0	9357.7	8506.0	7767.9	7135.2	6664.7	6489.0	6372.8
12.5°	11712.7	11261.1	10206.6	9084.6	8016.6	6997.3	5951.0	5272.3	4753.2	4477.4	4512.6
15°	11315.2	10766.3	9406.3	8038.3	6651.3	5437.2	4393.6	3747.4	3385.1	3309.4	3352.6
17.5°	10947.5	10228.3	8657.4	7021.6	5402.1	4077.2	3301.3	2936.2	2790.3	2749.7	2747.0
20°	10568.9	9771.4	7816.5	5934.7	4209.7	3160.7	2709.2	2538.8	2511.8	2528.0	2530.7
22.5°	10185.0	9206.3	6951.3	4855.9	3352.6	2584.8	2368.5	2322.5	2344.1	2382.0	2387.4
25°	9830.9	8708.8	6118.6	3909.6	2676.7	2271.2	2165.7	2165.7	2214.4	2271.2	2273.8
27.5°	9538.8	8227.5	5288.5	3103.9	2241.4	2044.0	2008.9	2027.8	2095.4	2138.7	2141.3
30°	9298.2	7778.7	4504.4	2487.4	1971.0	1862.9	1854.8	1887.2	1935.9	1976.4	1979.1
32.5°	9117.0	7383.9	3771.7	2090.0	1784.5	1725.0	1722.3	1746.6	1773.7	1784.5	1795.3
35°	9046.8	7056.8	3101.2	1838.6	1660.1	1622.2	1622.2	1619.6	1630.4	1635.8	1641.2
37.5°	9103.5	6805.4	2582.1	1676.3	1568.2	1541.1	1524.9	1508.7	1503.3	1503.3	1506.0
40°	9344.2	6672.9	2195.5	1570.9	1503.3	1462.7	1433.0	1414.1	1395.1	1400.6	1406.0
42.5°	9855.2	6697.2	1933.1	1500.6	1446.5	1389.7	1346.4	1324.8	1311.3	1327.6	1324.8
45°	10669.0	6940.5	1765.6	1451.9	1389.7	1316.7	1276.1	1254.5	1254.5	1278.9	1287.0
47.5°	11807.3	7405.6	1676.3	1414.1	1346.4	1259.9	1219.4	1203.2	1208.6	1249.1	1251.9
50°	13197.0	8214.0	1660.1	1395.1	1324.8	1219.4	1173.4	1157.2	1170.7	1214.0	1219.4
52.5°	14730.0	9255.0	1738.5	1397.8	1305.9	1195.1	1135.6	1111.2	1124.8	1159.9	1170.7
55°	16547.0	10558.1	1941.3	1408.6	1278.9	1181.5	1108.6	1054.5	1070.7	1095.0	1097.7
57.5°	18401.8	12202.0	2298.2	1411.4	1257.3	1157.2	1062.6	992.3	992.3	1008.5	1016.6
60°	20667.5	13991.9	2768.6	1414.1	1259.9	1122.0	1000.4	922.0	911.2	919.2	922.0
62.5°	22917.0	15489.8	2847.1	1406.0	1287.0	1086.9	932.8	851.7	832.7	830.1	824.7
65°	23909.3	15211.3	2333.3	1368.1	1316.7	1065.3	878.7	784.1	751.7	740.8	740.8
67.5°	22292.5	12867.2	1754.7	1316.7	1297.8	1043.7	827.3	727.3	689.4	667.8	667.8
69°	20772.9	11445.0	1576.3	1281.6	1249.1	1008.5	794.9	697.6	651.6	627.3	619.2
70°	19599.5	10466.2	1500.6	1251.9	1203.2	967.9	770.6	676.0	624.6	597.5	592.1
72.5°	15641.2	8211.3	1314.0	1138.2	1024.7	813.9	684.0	608.3	559.7	529.9	521.8
75°	9014.3	4450.4	1089.6	989.6	824.7	632.7	578.6	529.9	492.1	465.0	457.0
77.5°	2774.0	1719.6	789.5	781.4	605.7	489.4	462.4	443.4	416.4	386.6	381.2
80°	1168.0	876.0	535.3	527.2	402.9	340.7	332.5	329.9	319.1	294.7	286.6
82.5°	640.8	494.8	373.1	324.5	243.4	197.4	205.5	208.2	200.1	175.7	159.5
85°	313.7	270.4	181.2	146.0	110.9	70.3	67.6	81.1	75.7	54.1	59.5
87.5°	62.2	75.7	48.7	21.6	10.8	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)