

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: McGRAW-EDISON

Report Number: P631559

Luminaire Tested: GWS-SA1F-830-U-T2-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P631559
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-21)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA1F-830-U-T2-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS W/ FACTORY INSALLED GLARE SHIELD, WH
Light Source: (16) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5579.8 lumens
Efficiency: N/A
Efficacy: 83.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

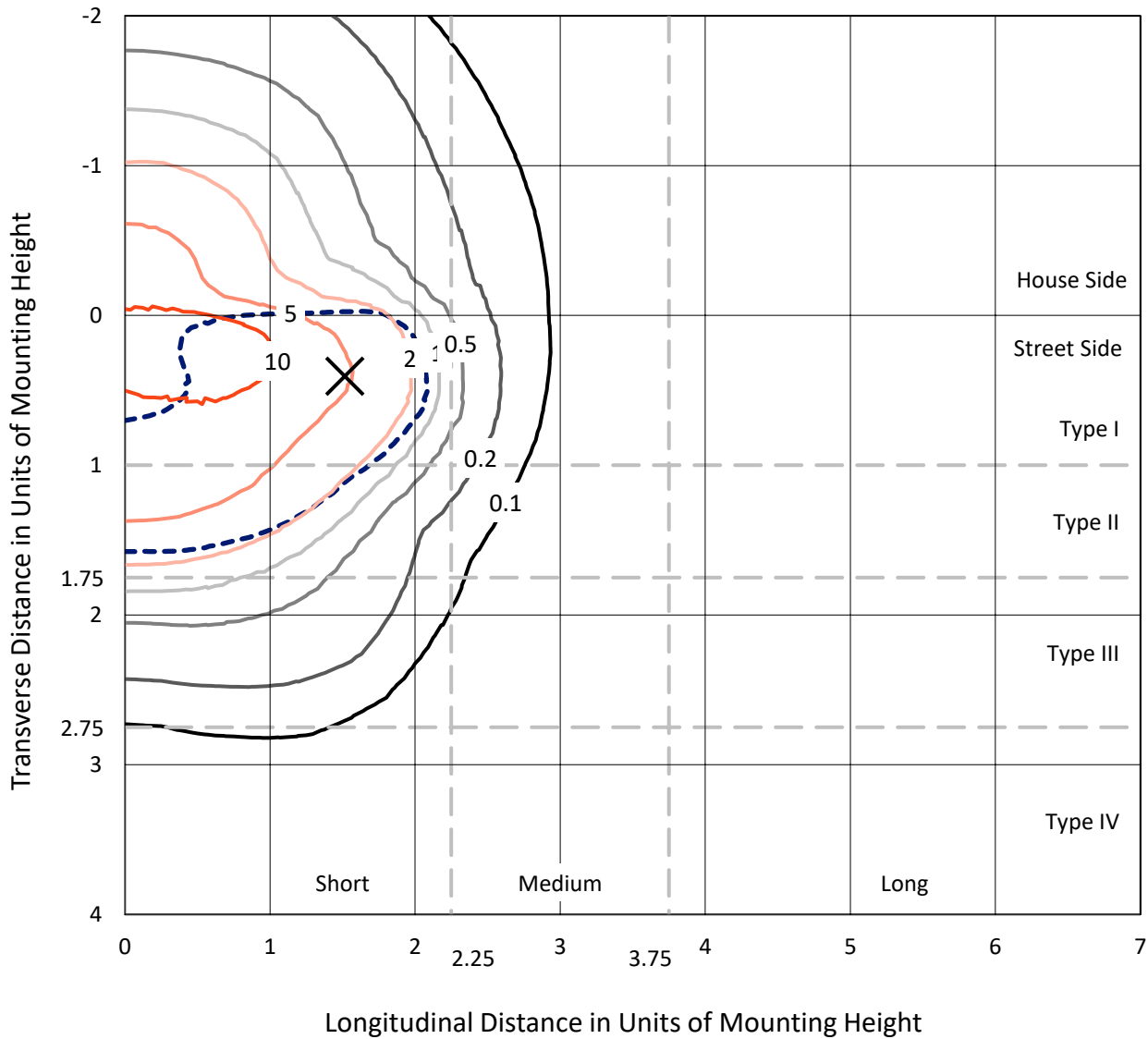
Input Watts (W): 67.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

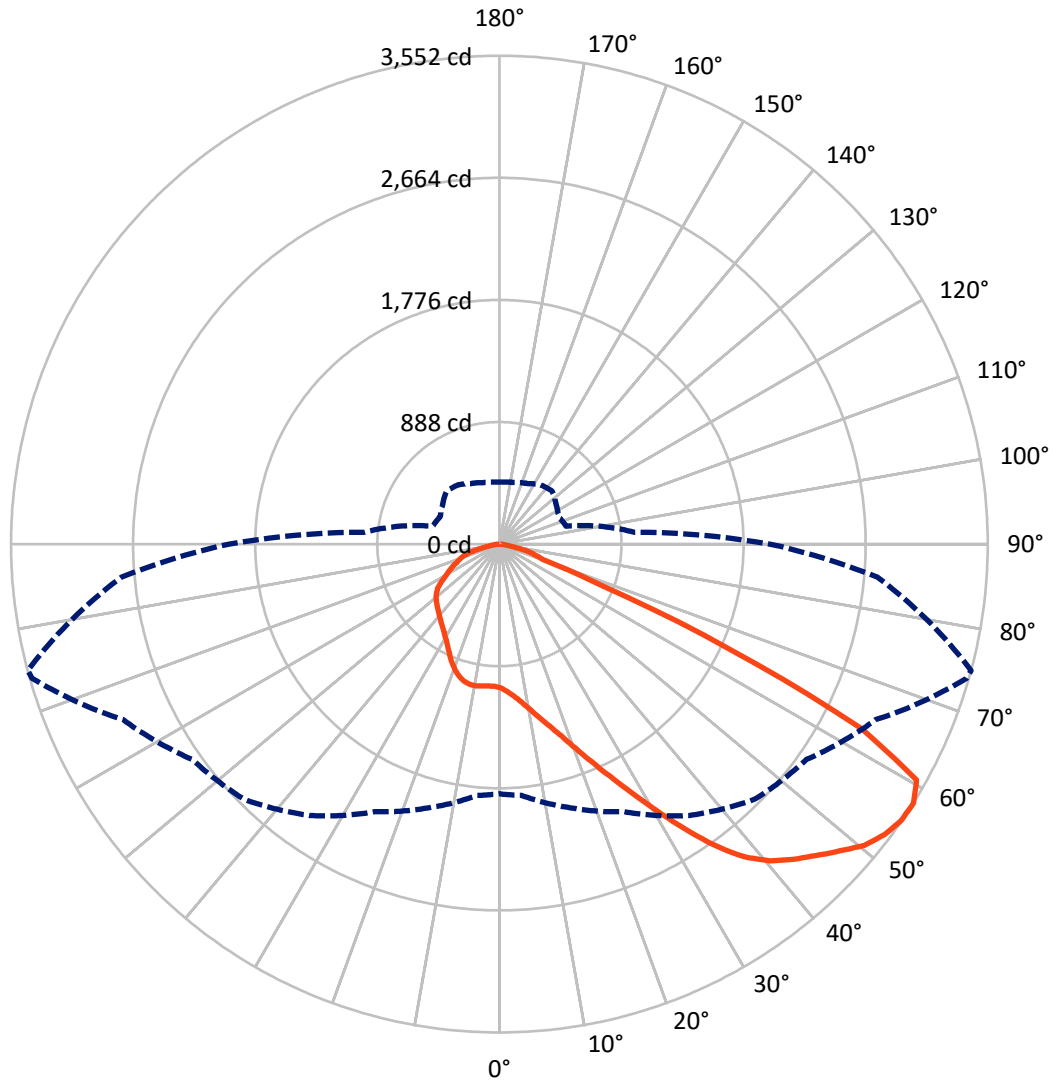
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 14.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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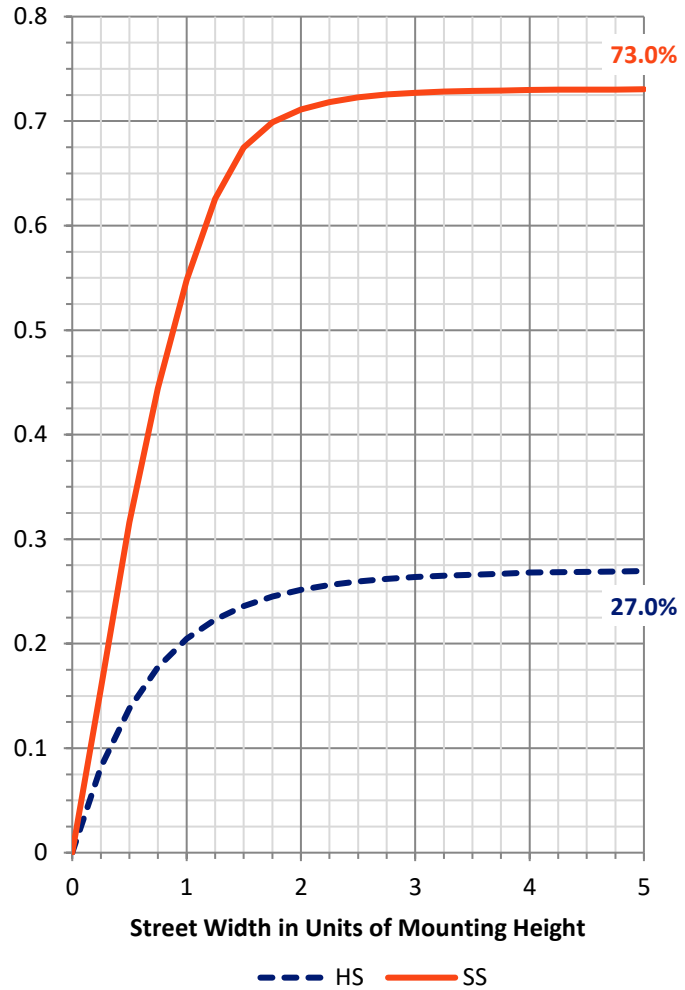
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1509.4	0.0	1509.4
	% Fixture	27.1	0.0	27.1
Street Side	Lumens	4070.4	0.0	4070.4
	% Fixture	72.9	0.0	72.9
Total	Lumens	5579.8	0.0	5579.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	104.6	1.9
10°-20°	332.9	6.0
20°-30°	590.4	10.6
30°-40°	903.9	16.2
40°-50°	1258.5	22.6
50°-60°	1442.0	25.8
60°-70°	740.9	13.3
70°-80°	186.5	3.3
80°-90°	19.9	0.4
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°	5579.8	100.0
0°-180°	5579.8	100.0

Coefficient of Utilization



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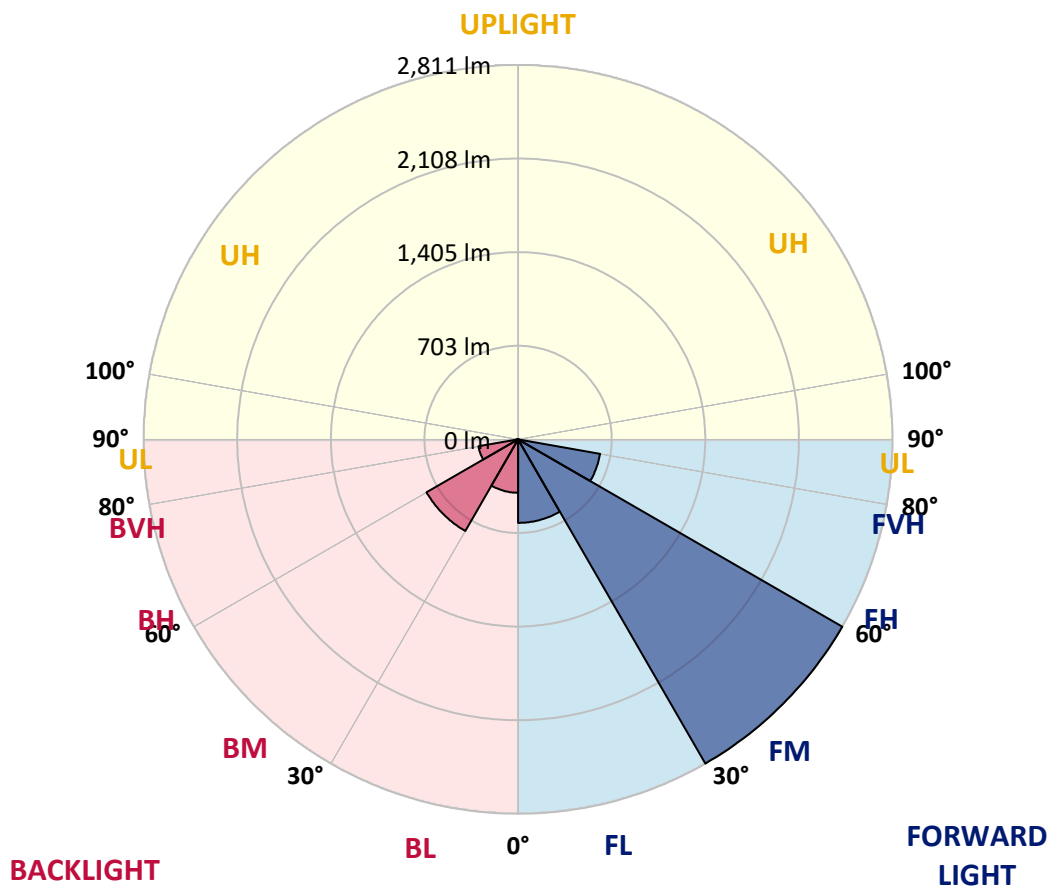
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	626.9	11.2			
FM (30°-60°)	2810.6	50.4			
FH (60°-80°)	625.4	11.2			G0/660
FVH (80°-90°)	7.4	0.1			G0/10
BL (0°-30°)	401.0	7.2	B1/500		
BM (30°-60°)	793.8	14.2	B1/1000		
BH (60°-80°)	302.0	5.4	B1/500		G1/500
BVH (80°-90°)	12.6	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	1045.0	1045.0	1045.0	1045.0	1045.0	1045.0	1045.0	1045.0	1045.0	1045.0	1045.0
2.5°	1122.7	1125.6	1122.7	1127.5	1117.9	1113.6	1103.0	1087.2	1074.7	1072.8	1058.9
5°	1210.0	1216.2	1212.4	1210.5	1197.5	1187.9	1172.1	1140.4	1114.5	1110.7	1083.3
7.5°	1266.1	1270.5	1270.5	1271.9	1267.1	1256.1	1239.3	1201.9	1165.4	1159.6	1118.4
10°	1284.9	1288.2	1294.4	1306.4	1316.0	1319.4	1308.4	1272.4	1227.8	1222.0	1164.4
12.5°	1289.2	1293.0	1302.6	1324.7	1351.1	1375.1	1377.0	1350.6	1300.7	1294.4	1217.7
15°	1297.3	1301.2	1314.1	1341.5	1380.3	1426.4	1454.7	1436.5	1381.3	1374.6	1278.1
17.5°	1296.4	1300.7	1319.9	1356.3	1408.6	1475.3	1530.0	1537.7	1480.6	1469.1	1346.7
20°	1294.0	1297.8	1318.4	1363.1	1427.8	1519.5	1618.3	1658.1	1596.7	1586.2	1426.9
22.5°	1313.2	1317.5	1333.3	1370.3	1437.9	1553.5	1699.9	1795.8	1734.4	1719.5	1519.0
25°	1356.3	1362.6	1372.2	1397.6	1456.1	1583.8	1783.3	1951.7	1888.9	1871.1	1619.3
27.5°	1423.0	1430.7	1444.1	1456.1	1496.9	1622.1	1866.3	2126.4	2063.5	2044.8	1725.3
30°	1504.6	1514.7	1531.9	1540.1	1567.9	1678.8	1956.5	2306.3	2269.8	2243.9	1844.8
32.5°	1617.3	1631.3	1647.6	1650.0	1666.8	1764.6	2045.8	2484.8	2484.3	2466.1	1980.5
35°	1764.2	1779.0	1782.4	1785.7	1793.9	1882.7	2153.7	2647.4	2710.3	2689.2	2128.3
37.5°	1924.4	1946.0	1951.3	1936.4	1947.9	2024.7	2275.1	2777.9	2907.0	2884.4	2271.3
40°	2095.7	2104.3	2118.7	2095.2	2109.6	2187.3	2394.1	2861.4	3053.8	3029.8	2384.0
42.5°	2218.5	2234.3	2255.9	2247.3	2255.4	2326.5	2477.6	2901.7	3158.4	3134.4	2465.1
45°	2351.9	2356.7	2370.6	2368.7	2373.5	2439.7	2537.6	2919.5	3252.0	3230.4	2534.2
47.5°	2468.0	2475.2	2484.3	2473.7	2463.2	2506.4	2586.5	2934.8	3359.9	3334.0	2606.6
50°	2579.8	2586.0	2597.1	2566.3	2527.0	2538.0	2610.5	2955.9	3461.1	3442.9	2663.7
52.5°	2600.4	2607.1	2658.9	2665.2	2614.8	2575.9	2652.7	3002.5	3520.6	3509.1	2684.4
55°	2340.9	2352.8	2456.0	2574.5	2698.8	2686.3	2720.4	3026.9	3544.1	3547.0	2721.3
57.5°	1816.9	1834.2	1984.9	2147.5	2409.0	2625.4	2729.0	3020.7	3536.0	3551.8	2759.2
60°	1191.8	1201.9	1380.3	1562.6	1833.7	2133.1	2442.6	2908.4	3463.5	3486.1	2749.6
62.5°	719.7	731.2	874.6	1012.8	1172.6	1372.7	1656.7	2337.5	2903.2	2953.5	2202.2
65°	502.3	517.7	643.4	757.1	812.3	771.0	839.1	1305.5	1808.8	1829.9	1345.8
67.5°	364.2	374.7	477.9	613.2	674.1	544.6	415.0	578.1	787.8	795.5	555.1
70°	238.5	250.4	344.0	466.8	550.3	441.4	310.4	312.8	331.5	335.4	322.4
72.5°	131.0	138.2	212.5	309.9	325.3	263.9	242.3	260.0	273.0	273.0	276.4
75°	67.6	73.9	86.8	102.2	123.3	144.4	174.6	201.0	214.9	215.9	214.5
77.5°	34.5	36.9	46.5	50.4	55.2	64.3	83.5	107.0	119.5	124.3	123.3
80°	16.3	17.3	19.7	23.0	28.3	36.0	45.1	53.7	61.4	62.4	67.6
82.5°	8.6	9.6	10.6	12.5	15.4	19.2	26.4	31.7	36.5	37.4	41.7
85°	3.4	3.8	4.3	4.8	6.7	8.2	11.0	14.9	18.2	18.2	21.6
87.5°	0.0	0.0	0.0	0.0	0.5	1.0	1.9	2.4	3.4	3.4	5.8
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°	1045.0	1045.0	1045.0	1045.0	1045.0	1045.0	1045.0	1045.0	1045.0	1045.0	1045.0
2.5°	1055.5	1041.6	1035.4	1025.3	1017.1	1008.0	1000.8	995.5	992.2	990.3	988.3
5°	1072.8	1051.7	1034.9	1014.7	1000.8	987.4	976.4	968.7	964.8	962.0	960.0
7.5°	1099.7	1071.4	1039.7	1008.5	984.0	962.4	948.5	940.4	935.1	933.2	931.7
10°	1136.6	1097.3	1045.0	995.5	959.1	935.6	926.0	922.1	922.6	921.7	921.2
12.5°	1178.3	1124.6	1043.5	972.5	932.2	918.3	918.8	925.0	932.2	934.1	934.6
15°	1223.4	1151.5	1029.6	942.8	911.1	912.5	925.0	939.9	953.3	958.6	959.6
17.5°	1272.4	1174.0	1004.2	910.1	893.8	909.2	932.2	956.7	976.4	985.0	987.4
20°	1327.1	1193.2	968.2	878.0	877.5	902.9	936.5	968.7	993.6	1005.1	1007.1
22.5°	1385.1	1205.2	924.1	848.3	860.7	894.8	933.2	966.8	993.1	1004.7	1007.1
25°	1443.7	1209.0	875.6	820.9	843.5	881.8	916.9	943.7	968.7	978.8	980.7
27.5°	1498.4	1198.0	829.5	797.4	827.6	862.6	886.2	900.5	917.8	925.5	926.9
30°	1554.0	1175.9	790.7	778.7	809.9	836.3	846.8	847.8	854.5	854.5	855.4
32.5°	1610.1	1143.3	756.6	760.5	787.8	805.1	806.5	795.5	787.3	773.9	773.4
35°	1674.9	1110.2	728.8	739.8	761.9	772.4	768.1	747.0	727.3	705.3	704.3
37.5°	1734.9	1076.1	705.3	718.7	732.6	740.3	730.2	704.8	688.5	665.9	662.6
40°	1784.3	1045.4	682.7	696.6	703.4	710.1	693.8	673.1	675.5	663.1	662.6
42.5°	1813.1	1015.7	661.6	672.2	676.5	681.3	666.9	651.5	664.5	654.9	655.4
45°	1834.2	989.8	642.4	646.3	656.8	664.0	650.6	633.3	636.2	599.2	590.6
47.5°	1858.2	975.4	624.2	620.4	639.1	651.5	630.9	606.0	588.7	552.2	548.9
50°	1883.6	970.1	605.0	594.4	617.0	629.0	605.0	573.8	551.3	531.6	529.7
52.5°	1892.3	969.6	581.0	563.3	585.8	602.6	582.5	550.8	523.9	504.7	503.8
55°	1926.3	983.6	550.3	520.6	541.7	576.2	561.3	515.8	494.2	485.5	484.6
57.5°	1966.1	985.9	501.9	474.0	503.3	544.1	525.4	486.0	462.5	452.0	451.0
60°	1949.8	926.9	450.0	438.5	470.7	513.8	496.6	462.5	435.2	425.1	424.1
62.5°	1485.9	654.4	412.1	407.8	435.6	470.2	466.8	431.3	405.4	398.2	397.3
65°	893.8	459.6	375.7	375.2	394.9	428.0	432.3	403.5	376.1	366.1	366.1
67.5°	441.9	351.7	334.4	332.0	344.5	368.0	386.2	362.7	339.7	330.1	328.6
70°	312.3	309.9	304.2	297.5	299.9	309.5	317.1	297.5	273.0	263.4	261.5
72.5°	270.1	270.6	266.8	261.5	259.6	252.8	246.1	231.7	216.9	206.8	207.7
75°	209.7	210.6	213.0	211.1	205.8	198.6	191.4	173.2	161.2	151.6	149.7
77.5°	122.3	127.1	134.8	132.9	133.9	123.8	120.9	103.2	92.1	85.4	84.0
80°	69.1	72.0	75.3	77.7	74.8	70.5	64.3	54.7	51.3	46.5	45.6
82.5°	41.7	44.6	46.1	48.0	47.0	41.3	36.5	30.2	27.3	24.9	24.5
85°	21.1	23.0	24.5	25.4	22.5	18.7	16.8	13.4	11.5	10.1	10.1
87.5°	5.3	5.8	6.7	5.8	5.3	2.4	1.9	0.5	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)