

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: P647234

Luminaire Tested: **GALN-SA1D-835-U-T2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P647234
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-14)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1D-835-U-T2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3500K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE II OPTICS
WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5141.2 lumens
Efficiency: N/A
Efficacy: 79.1 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

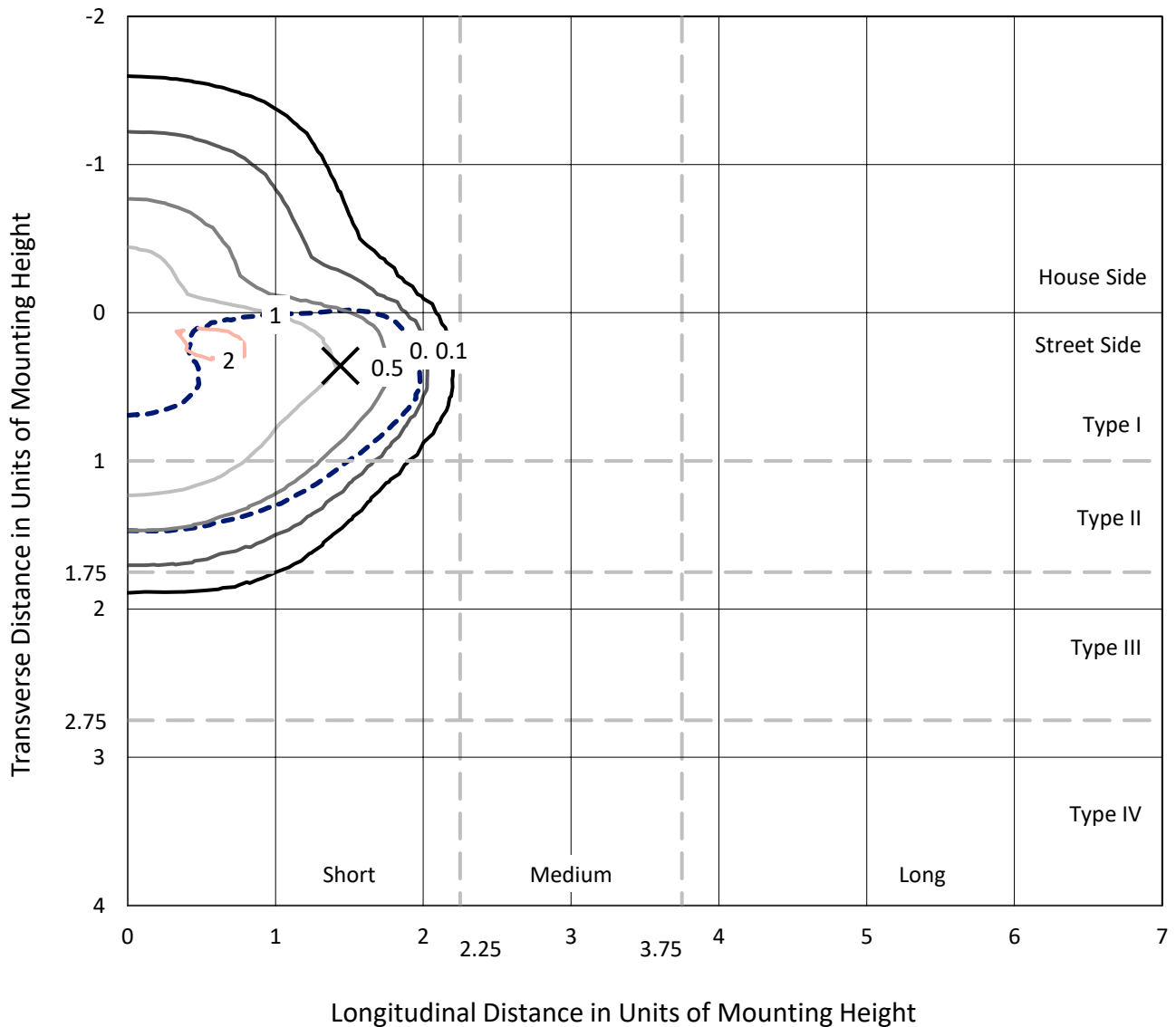
Input Watts (W): 65
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

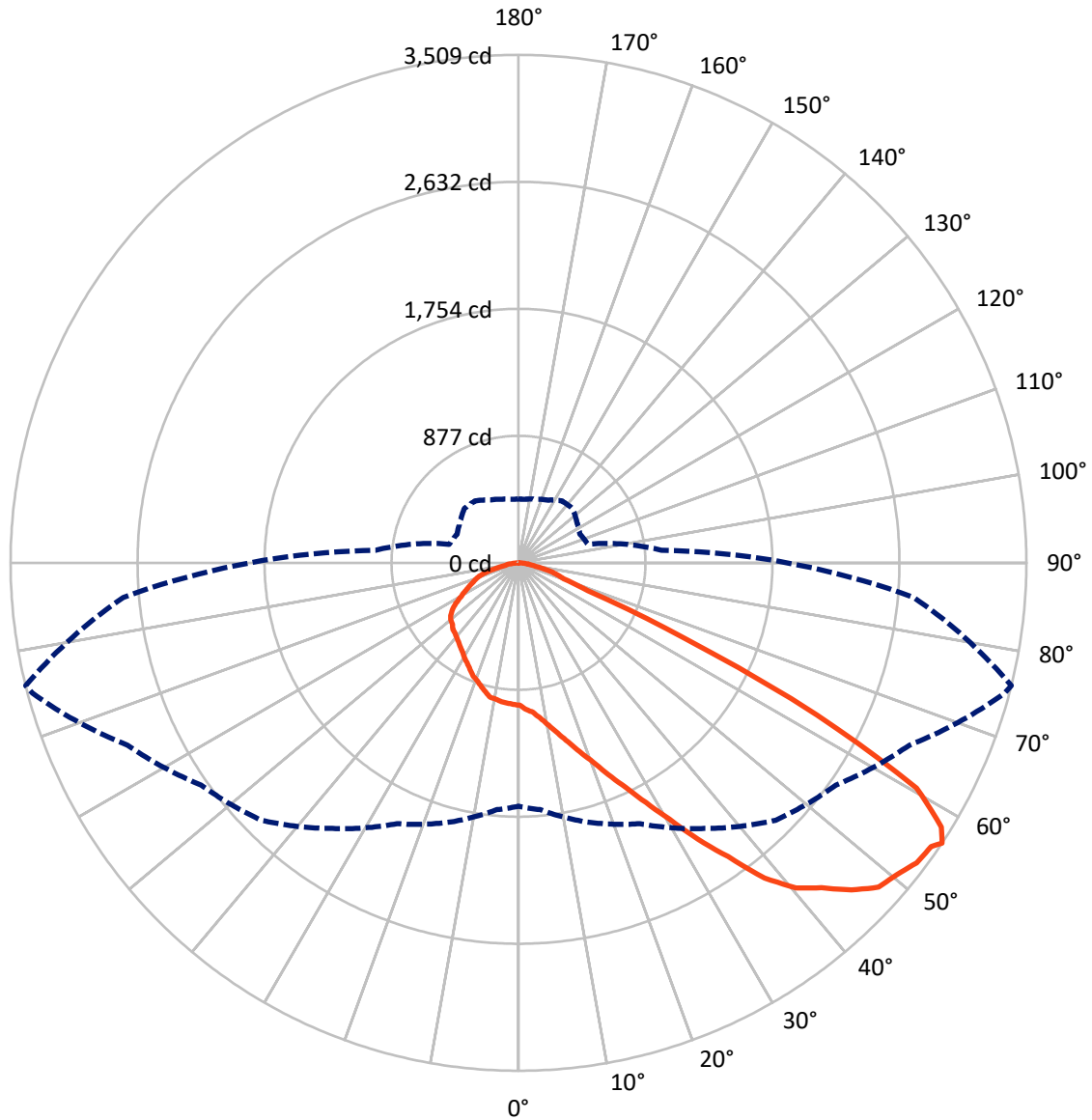
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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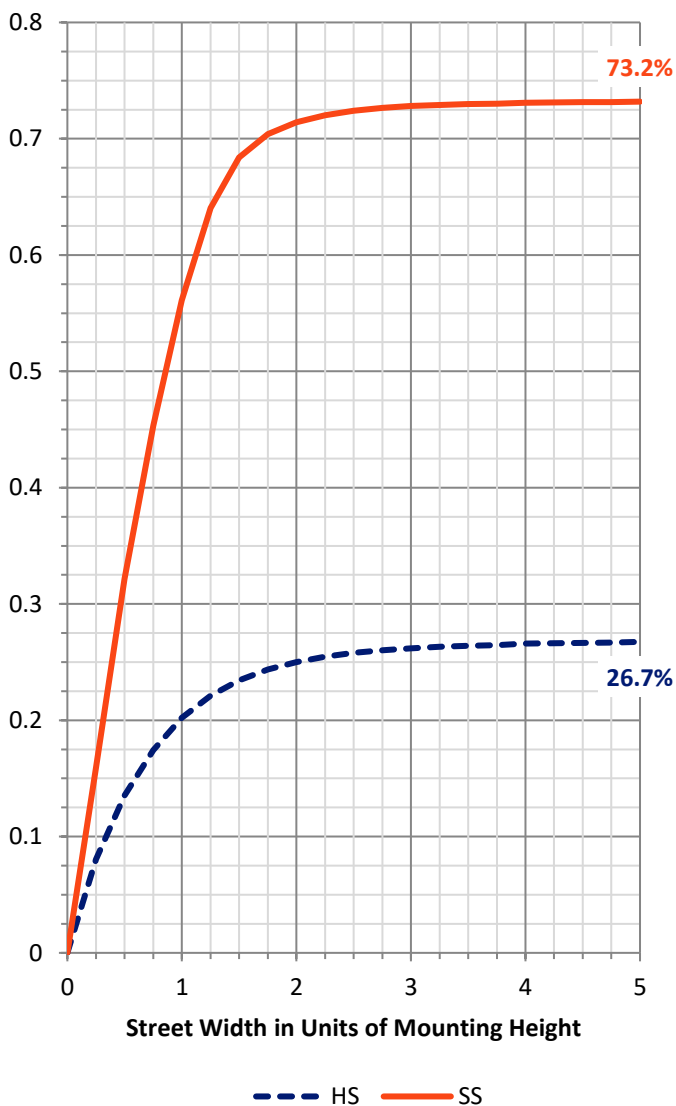
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1382.3	0.0	1382.3
	% Fixture	26.9	0.0	26.9
Street Side	Lumens	3758.9	0.0	3758.9
	% Fixture	73.1	0.0	73.1
Total	Lumens	5141.2	0.0	5141.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	97.6	1.9
10°-20°	306.4	6.0
20°-30°	535.9	10.4
30°-40°	839.1	16.3
40°-50°	1220.7	23.7
50°-60°	1341.6	26.1
60°-70°	598.8	11.6
70°-80°	173.0	3.4
80°-90°	28.1	0.5
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°	5141.2	100.0
0°-180°	5141.2	100.0

Coefficient of Utilization

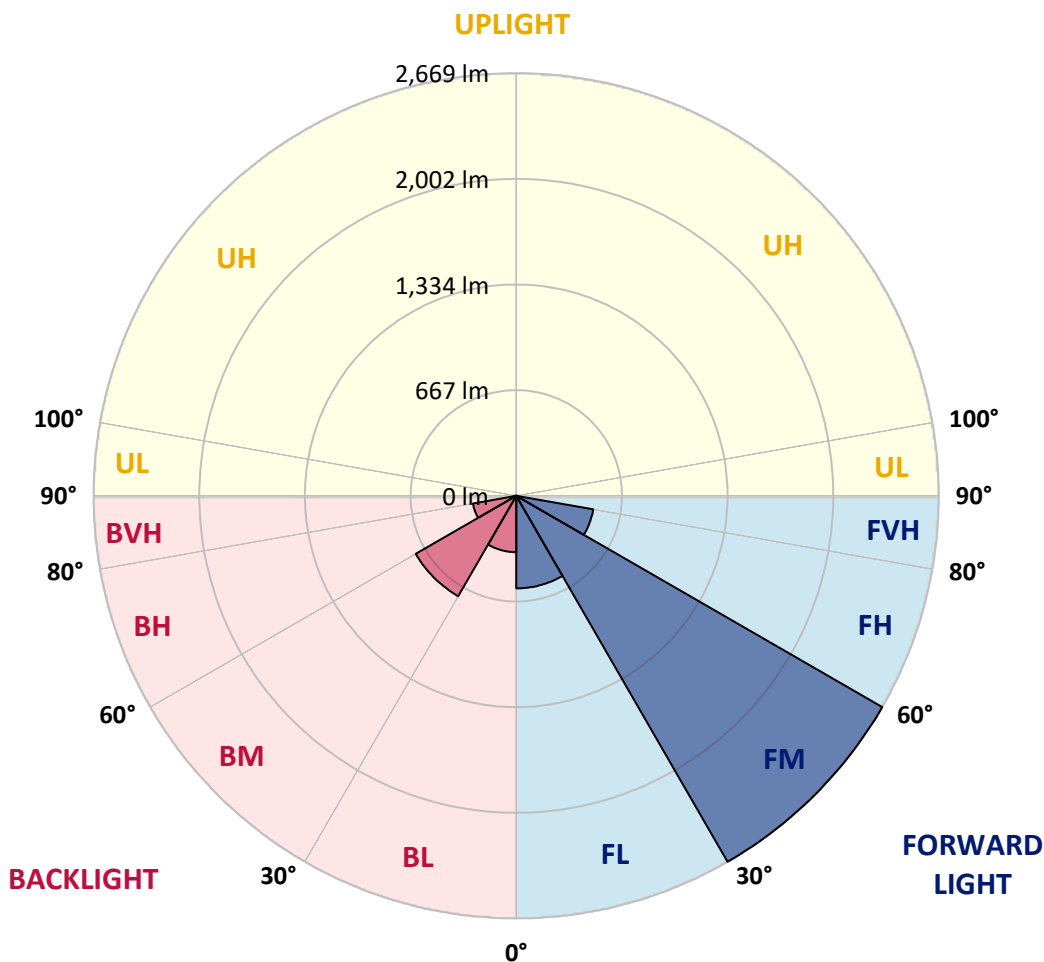


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	584.2	11.4			
FM (30°-60°)	2668.9	51.9			
FH (60°-80°)	493.7	9.6			G0/660
FVH (80°-90°)	12.1	0.2			G1/100
BL (0°-30°)	355.7	6.9	B1/500		
BM (30°-60°)	732.5	14.2	B1/1000		
BH (60°-80°)	278.1	5.4	B1/500		G1/500
BVH (80°-90°)	16.0	0.3			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°	75°	76°	85°
0°	983.7	983.7	983.7	983.7	983.7	983.7	983.7	983.7	983.7	983.7	983.7
2.5°	1083.7	1066.4	1065.0	1060.3	1063.0	1051.0	1038.3	1021.7	1004.4	1015.0	989.7
5°	1159.6	1136.3	1145.7	1129.6	1131.7	1115.7	1089.7	1070.4	1049.0	1036.4	1018.4
7.5°	1186.3	1188.3	1194.9	1192.3	1179.0	1179.0	1161.7	1127.7	1090.3	1083.0	1053.0
10°	1222.3	1223.0	1215.6	1217.6	1236.3	1227.6	1212.3	1197.6	1149.7	1141.0	1087.7
12.5°	1234.9	1223.0	1234.9	1245.6	1267.6	1279.6	1276.3	1265.6	1214.3	1208.3	1130.3
15°	1237.0	1229.6	1239.6	1263.6	1282.9	1333.6	1358.9	1351.6	1283.6	1284.3	1178.3
17.5°	1227.6	1237.6	1241.6	1262.3	1306.9	1354.3	1427.6	1437.6	1381.6	1372.9	1238.9
20°	1240.3	1233.0	1238.3	1256.9	1316.3	1390.2	1486.2	1552.2	1473.5	1467.6	1301.6
22.5°	1289.0	1279.0	1277.6	1289.6	1332.3	1408.9	1548.2	1666.9	1585.5	1588.9	1379.6
25°	1327.0	1332.3	1327.6	1327.0	1353.6	1436.9	1630.2	1803.5	1737.5	1718.1	1471.6
27.5°	1392.3	1404.9	1395.5	1408.2	1402.3	1478.9	1688.9	1954.8	1901.4	1875.4	1554.9
30°	1482.8	1489.6	1480.9	1480.9	1462.9	1537.5	1742.1	2112.7	2090.7	2055.4	1652.8
32.5°	1602.2	1612.2	1594.8	1584.9	1582.2	1624.8	1838.1	2268.7	2305.9	2275.9	1782.8
35°	1760.1	1754.2	1733.5	1724.2	1688.1	1758.8	1980.8	2447.9	2545.9	2492.6	1940.0
37.5°	1899.4	1890.1	1888.8	1836.8	1845.5	1903.4	2102.0	2583.9	2778.5	2763.1	2106.0
40°	2029.4	2038.1	2052.0	2022.7	2009.4	2073.4	2243.3	2687.8	2959.1	2953.1	2234.0
42.5°	2168.7	2160.7	2185.4	2160.7	2140.6	2231.3	2396.6	2759.8	3117.7	3068.4	2367.9
45°	2370.6	2345.3	2353.9	2356.0	2341.2	2374.6	2460.0	2811.8	3229.0	3223.7	2465.9
47.5°	2539.2	2539.9	2525.3	2513.9	2469.3	2502.5	2530.6	2844.5	3357.0	3348.3	2503.9
50°	2601.8	2593.2	2635.9	2660.6	2663.2	2595.2	2585.9	2862.5	3424.3	3386.3	2541.9
52.5°	2376.6	2384.6	2451.9	2598.5	2683.2	2690.5	2650.5	2899.8	3451.6	3443.6	2572.5
55°	1912.7	1951.4	2062.0	2231.3	2431.9	2652.5	2720.5	2938.4	3466.3	3459.6	2708.5
56°	1681.5	1711.5	1855.4	1988.0	2240.0	2514.5	2676.5	2979.8	3477.6	3508.9	2740.5
57.5°	1353.6	1388.3	1491.5	1642.2	1939.4	2252.0	2555.2	2929.1	3433.6	3445.6	2763.8
60°	846.4	849.7	973.7	1073.0	1282.2	1587.5	1950.1	2548.6	3177.7	3160.3	2482.6
62.5°	555.1	555.9	668.4	749.8	845.1	915.0	1147.6	1690.2	2344.6	2313.9	1767.5
65°	389.9	398.5	485.9	594.5	633.1	596.5	589.1	891.1	1309.6	1265.6	949.7
67.5°	285.2	285.9	363.2	479.8	535.8	453.8	368.6	435.2	518.5	517.2	439.9
70°	188.6	196.6	255.9	358.5	422.5	364.6	301.2	311.2	329.9	329.9	327.2
72.5°	109.9	117.3	156.6	227.2	237.2	227.9	238.6	266.6	278.6	277.9	274.6
75°	62.6	66.0	74.6	94.7	118.0	139.3	175.3	201.9	213.9	221.3	212.6
77.5°	36.6	38.7	44.0	53.9	61.3	75.3	95.3	113.9	130.0	127.9	129.3
80°	19.3	19.3	24.7	32.0	42.7	53.3	63.3	74.0	82.6	84.6	86.7
82.5°	11.4	12.0	16.0	23.3	30.7	38.0	48.6	56.0	64.0	64.7	66.0
85°	6.0	6.7	10.0	15.3	20.7	23.3	24.0	22.6	24.7	23.3	26.6
87.5°	2.0	2.0	3.4	2.7	2.7	3.4	4.0	4.0	5.3	5.3	5.3
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°	983.7	983.7	983.7	983.7	983.7	983.7	983.7	983.7	983.7	983.7	983.7
2.5°	989.0	989.0	977.7	956.4	953.1	944.4	936.4	935.7	929.7	924.4	921.7
5°	1007.7	987.0	970.4	951.0	928.4	917.8	905.7	892.4	887.1	892.4	891.8
7.5°	1029.0	1011.7	961.7	925.7	899.7	889.1	875.7	861.8	863.1	863.1	853.7
10°	1049.7	1026.4	946.4	900.4	862.4	854.4	847.0	852.4	859.1	860.4	854.4
12.5°	1084.3	1031.7	939.1	875.1	851.0	833.7	838.4	853.1	867.1	863.1	867.7
15°	1110.3	1036.4	905.7	849.1	819.1	827.1	843.8	853.7	877.0	874.4	879.1
17.5°	1135.7	1039.0	873.0	814.4	801.8	823.7	836.4	865.1	872.4	888.4	894.4
20°	1187.7	1044.4	839.8	793.1	789.1	814.4	836.4	849.7	865.8	879.7	879.7
22.5°	1214.3	1041.7	817.8	765.1	777.8	793.7	813.8	836.4	836.4	849.7	850.4
25°	1247.6	1031.1	783.1	751.8	761.1	776.4	799.1	791.1	799.8	799.8	810.4
27.5°	1285.6	1008.3	753.1	727.8	746.4	763.1	766.4	761.1	751.1	749.8	745.8
30°	1316.3	980.4	731.1	719.8	735.1	744.5	733.7	722.5	705.1	703.8	694.4
32.5°	1358.3	945.7	703.8	699.8	717.1	717.8	714.4	697.1	671.8	661.2	650.4
35°	1428.9	925.7	683.1	689.1	694.4	692.5	686.5	667.8	642.5	637.8	633.8
37.5°	1480.9	911.0	661.8	669.2	673.8	676.4	658.5	637.8	638.5	629.1	626.5
40°	1539.5	901.7	644.5	647.8	648.5	657.1	635.2	625.1	629.8	623.8	627.8
42.5°	1614.9	904.4	626.5	623.8	636.5	633.1	622.5	609.2	611.8	593.8	596.5
45°	1654.8	922.4	615.8	603.8	617.8	617.2	603.1	590.5	574.5	539.8	541.1
47.5°	1681.5	927.1	590.5	582.5	597.1	605.8	589.8	560.5	537.8	513.2	507.1
50°	1708.8	935.7	578.5	561.8	567.8	588.5	568.5	540.5	518.5	496.5	499.9
52.5°	1732.8	952.4	555.1	530.5	541.1	563.8	553.2	519.2	495.2	477.2	471.8
55°	1839.4	989.7	515.8	483.8	509.2	537.8	531.8	490.5	464.6	455.2	453.8
56°	1856.1	991.0	495.2	467.8	491.2	529.2	521.9	477.9	454.5	439.9	440.5
57.5°	1858.8	975.1	465.9	453.2	473.2	516.5	507.1	467.8	435.9	422.5	418.5
60°	1635.5	761.1	429.2	421.2	444.5	477.9	474.5	440.5	404.6	389.2	396.5
62.5°	1115.0	557.8	400.6	399.2	411.2	443.9	435.2	404.6	374.6	364.6	359.9
65°	649.1	423.2	372.6	367.2	377.2	394.6	400.6	368.6	337.2	330.6	328.5
67.5°	383.2	349.9	336.5	327.9	324.6	335.2	339.9	321.3	289.9	280.5	288.6
70°	320.6	311.2	311.9	297.2	289.2	281.9	277.9	261.3	235.3	223.2	219.9
72.5°	276.6	272.6	269.9	256.6	249.2	232.6	215.2	198.6	179.3	169.3	169.9
75°	211.3	209.9	211.3	204.6	191.9	178.6	162.6	141.3	126.6	113.9	116.7
77.5°	126.0	130.0	131.9	129.3	123.9	112.0	101.9	88.0	74.0	64.0	62.6
80°	86.7	90.0	93.3	90.0	84.6	76.0	65.3	54.7	44.6	39.3	38.0
82.5°	66.0	69.3	71.3	68.0	61.3	52.0	44.6	37.3	29.4	24.0	22.6
85°	24.0	27.3	26.6	32.0	34.7	33.4	28.7	22.0	16.7	12.0	11.4
87.5°	6.7	6.0	6.7	6.7	6.7	6.0	5.3	5.3	5.3	3.4	2.7
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)