

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: P452472

Luminaire Tested: **GALN-SA3B-830-U-T2R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452472
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA3B-830-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13756 lumens
Efficiency: N/A
Efficacy: 113.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

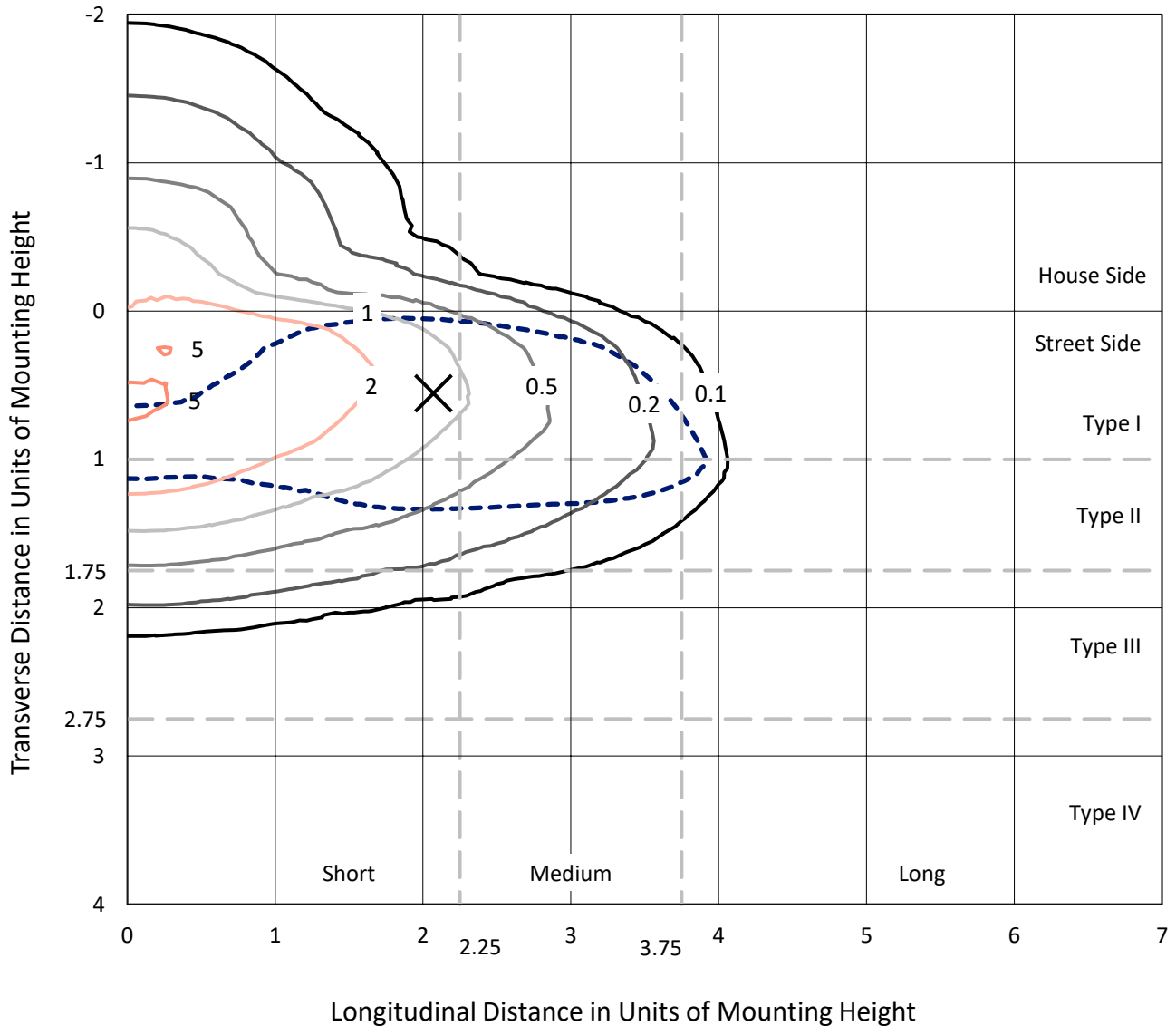
Input Watts (W): 121
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

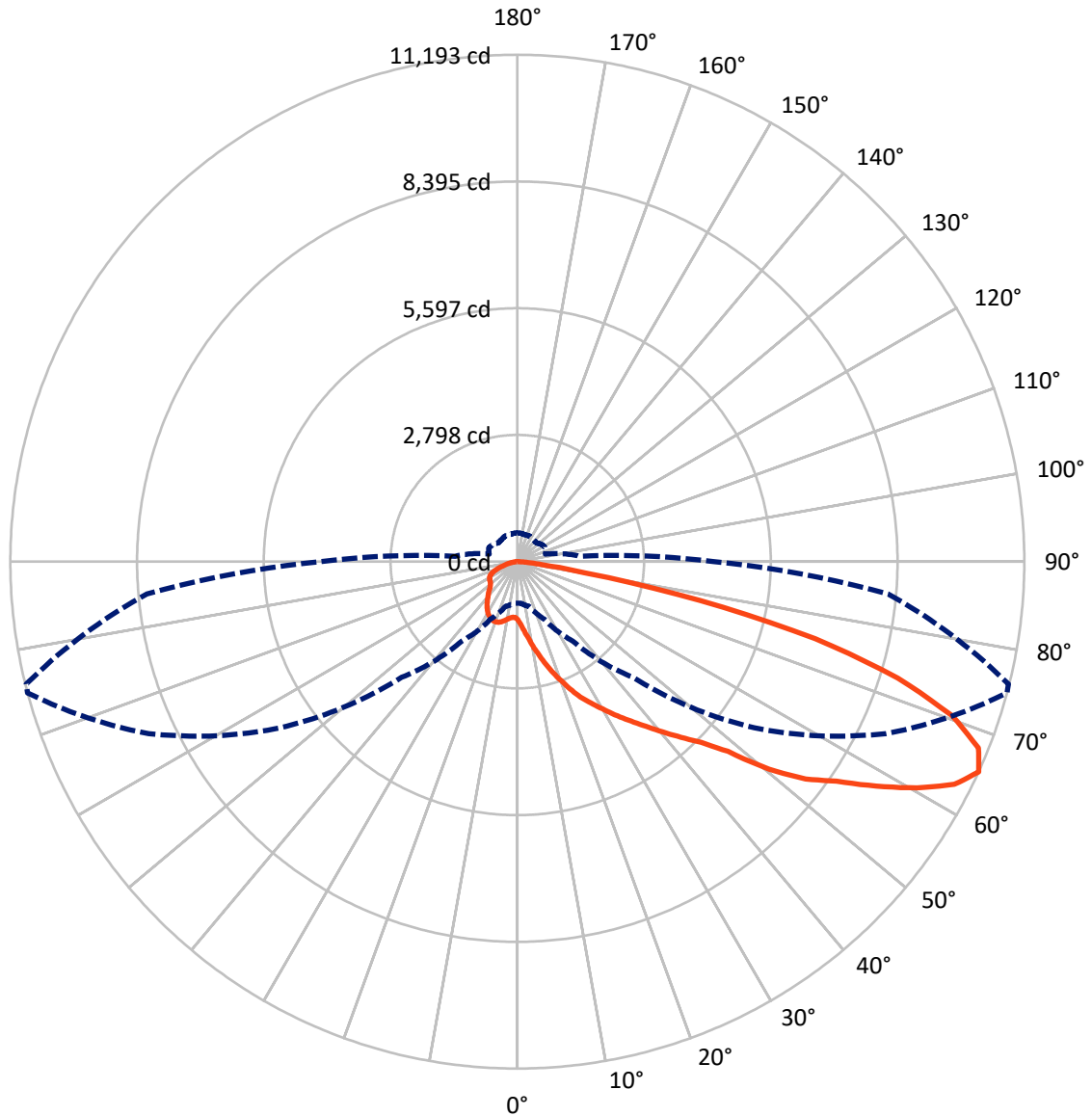
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2312.6	0.0	2312.6
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	11443.4	0.0	11443.4
	% Fixture	83.2	0.0	83.2
Total	Lumens	13756.0	0.0	13756.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	155.3	1.1
10°-20°	608.2	4.4
20°-30°	1174.9	8.5
30°-40°	1908.4	13.9
40°-50°	2625.2	19.1
50°-60°	3099.4	22.5
60°-70°	2715.6	19.7
70°-80°	1296.4	9.4
80°-90°	172.5	1.3
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°	13756.0	100.0
0°-180°	13756.0	100.0

Coefficient of Utilization



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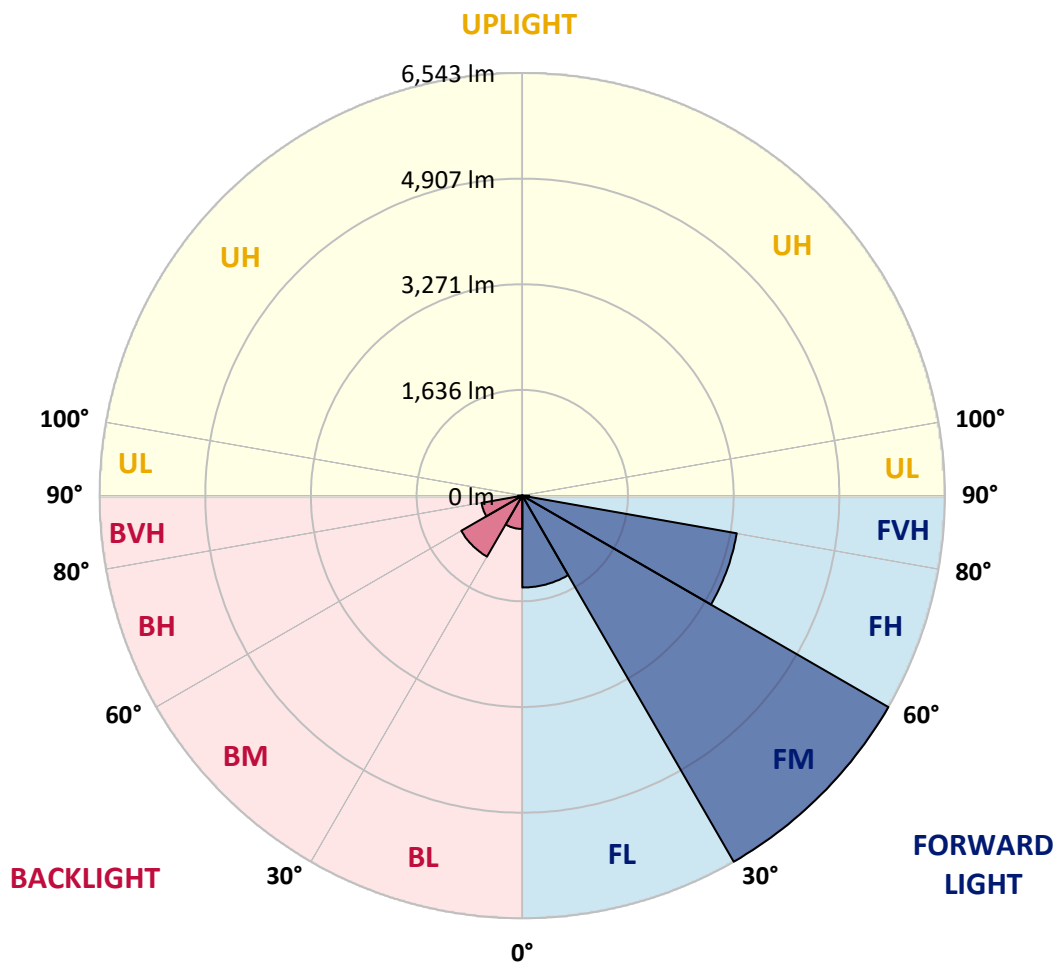
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1422.1	10.3			
FM (30°-60°)	6542.6	47.6			
FH (60°-80°)	3370.8	24.5			G2/5000
FVH (80°-90°)	107.8	0.8			G2/225
BL (0°-30°)	516.3	3.8	B2/1000		
BM (30°-60°)	1090.4	7.9	B2/2500		
BH (60°-80°)	641.2	4.7	B2/1000		G2/1000
BVH (80°-90°)	64.7	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1278.1	1278.1	1278.1	1278.1	1278.1	1278.1	1278.1	1278.1	1278.1	1278.1	1278.1
2.5°	1698.2	1687.0	1675.0	1642.2	1607.1	1567.6	1510.9	1456.4	1384.1	1381.8	1328.1
5°	2169.0	2161.5	2108.5	2077.9	1996.6	1888.4	1796.7	1654.2	1522.1	1506.4	1402.0
7.5°	2601.7	2572.6	2552.5	2497.3	2416.7	2277.9	2100.3	1907.8	1687.0	1666.1	1493.0
10°	2927.8	2924.8	2914.4	2866.6	2806.2	2668.1	2471.2	2195.1	1895.9	1854.9	1603.4
12.5°	3171.8	3174.0	3172.5	3171.8	3128.5	3011.3	2798.0	2507.0	2107.0	2077.9	1731.0
15°	3332.2	3354.6	3363.5	3400.8	3404.6	3326.2	3142.7	2808.4	2345.1	2301.8	1868.3
17.5°	3438.1	3449.3	3491.1	3554.5	3606.0	3591.8	3428.4	3087.5	2588.3	2515.9	2010.8
20°	3539.6	3559.0	3591.1	3677.6	3768.7	3810.4	3695.5	3373.2	2829.3	2783.0	2168.2
22.5°	3750.8	3778.4	3789.6	3833.6	3911.2	3985.0	3932.8	3647.0	3093.4	3030.7	2335.4
25°	4108.1	4137.2	4105.9	4095.5	4120.8	4157.4	4146.2	3905.2	3342.6	3253.1	2493.5
27.5°	4573.7	4577.5	4516.3	4458.1	4395.4	4376.7	4342.4	4134.3	3559.0	3484.4	2652.5
30°	5073.6	5055.7	4954.2	4849.0	4743.1	4638.6	4540.1	4355.1	3800.0	3714.2	2808.4
32.5°	5537.7	5528.0	5415.3	5251.9	5072.9	4974.4	4775.2	4578.2	4058.2	3975.3	2968.8
35°	5885.4	5899.6	5775.7	5597.4	5401.9	5314.6	5063.2	4812.5	4325.3	4235.0	3143.4
37.5°	6132.4	6124.9	6015.2	5860.8	5689.2	5613.1	5399.7	5068.4	4612.5	4526.0	3334.4
40°	6220.4	6215.9	6134.6	6021.9	5913.0	5886.2	5751.9	5344.5	4941.6	4840.1	3564.2
42.5°	6164.5	6174.2	6120.4	6089.8	6069.7	6089.1	6101.8	5706.3	5300.4	5207.2	3813.4
45°	5992.8	5987.6	5980.2	6030.2	6143.6	6271.2	6448.0	6048.1	5690.7	5616.1	4147.7
47.5°	5686.2	5723.5	5742.2	5880.2	6127.9	6430.1	6846.4	6506.2	6257.0	6192.1	4657.3
50°	5257.2	5287.0	5397.4	5642.9	6012.2	6489.8	7235.9	7255.3	7201.6	7079.9	5210.9
52.5°	4587.2	4633.4	4861.0	5310.9	5775.0	6465.1	7471.7	7897.7	7968.6	7877.6	5756.3
55°	3837.3	3902.2	4142.5	4732.6	5448.2	6330.8	7634.3	8270.0	8552.8	8468.5	6281.6
57.5°	3103.1	3171.8	3418.7	3990.3	4878.1	6033.9	7741.0	8684.9	9348.2	9238.5	6935.2
60°	2325.7	2397.3	2609.2	3197.9	4066.4	5453.4	7668.6	9044.5	10142.8	10095.8	7589.5
62.5°	1500.5	1579.5	1763.8	2251.0	3125.5	4660.3	7281.4	9243.0	10830.7	10774.0	8067.1
65°	914.0	923.0	1024.4	1397.5	2139.1	3608.2	6395.8	8979.6	11193.3	11176.2	8212.6
67.5°	590.9	605.1	651.4	837.1	1282.6	2506.2	5113.9	8110.3	10981.4	10975.4	7911.9
70°	499.2	503.6	524.5	564.8	745.4	1519.8	3591.1	6724.8	10176.4	10176.4	7188.9
72.5°	446.2	452.1	459.6	472.3	532.0	861.0	2142.9	5234.8	8786.3	8844.5	6118.9
75°	405.1	403.7	408.1	410.4	453.6	562.6	1108.0	3871.6	6797.2	6680.8	4431.2
77.5°	346.9	349.2	346.9	356.6	400.7	428.3	562.6	2598.0	4119.3	3968.6	2224.2
80°	285.0	288.7	292.5	298.4	342.5	325.3	338.0	1184.1	1523.6	1491.5	687.2
82.5°	214.1	219.4	225.3	239.5	269.3	214.9	213.4	505.9	549.9	503.6	252.9
85°	86.6	102.2	154.4	168.6	169.4	117.9	131.3	211.2	224.6	219.4	99.2
87.5°	20.1	23.9	50.0	75.4	69.4	44.0	48.5	68.6	78.3	72.4	33.6
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°	1278.1	1278.1	1278.1	1278.1	1278.1	1278.1	1278.1	1278.1	1278.1	1278.1	1278.1
2.5°	1303.5	1277.4	1232.6	1198.3	1173.6	1152.0	1138.6	1130.4	1127.4	1126.6	1127.4
5°	1347.5	1301.2	1230.4	1185.6	1161.0	1146.8	1138.6	1137.8	1138.6	1139.3	1137.1
7.5°	1407.9	1341.5	1249.0	1207.2	1188.6	1178.1	1174.4	1172.9	1173.6	1172.9	1172.9
10°	1488.5	1397.5	1285.6	1242.3	1226.6	1214.7	1208.7	1205.0	1202.0	1199.0	1197.5
12.5°	1577.3	1459.4	1325.1	1283.3	1260.9	1242.3	1228.9	1219.2	1212.4	1205.7	1204.2
15°	1676.5	1525.1	1369.1	1310.9	1278.9	1251.2	1228.1	1212.4	1200.5	1190.8	1190.1
17.5°	1771.3	1587.0	1399.0	1323.6	1276.6	1237.8	1207.2	1185.6	1170.7	1158.0	1156.5
20°	1872.8	1645.9	1412.4	1315.4	1254.2	1207.2	1166.9	1140.8	1123.7	1109.5	1107.2
22.5°	1975.0	1695.9	1410.9	1289.3	1215.4	1160.2	1117.7	1090.1	1069.9	1055.8	1050.5
25°	2072.7	1736.2	1392.3	1247.5	1161.7	1104.3	1061.0	1035.6	1017.7	1000.5	1000.5
27.5°	2160.8	1760.1	1357.2	1196.8	1106.5	1046.1	1011.7	988.6	972.2	961.0	954.3
30°	2247.3	1771.3	1309.4	1132.6	1048.3	996.8	969.2	955.8	940.9	928.2	926.7
32.5°	2324.9	1769.1	1249.8	1069.9	993.1	956.5	945.3	934.9	919.2	901.3	896.8
35°	2400.3	1754.1	1178.9	1001.3	946.8	932.7	935.6	920.7	892.4	870.0	866.2
37.5°	2482.3	1727.3	1101.3	945.3	908.0	921.5	928.9	896.1	849.8	814.8	806.6
40°	2577.1	1696.7	1020.7	889.4	877.4	911.0	911.0	850.6	787.2	765.5	759.6
42.5°	2688.3	1671.3	953.5	842.4	852.1	885.6	881.9	790.1	764.0	752.8	749.9
45°	2864.4	1662.4	884.2	801.3	831.2	855.8	825.2	769.3	754.3	745.4	742.4
47.5°	3142.7	1672.8	823.0	770.7	807.3	826.0	761.8	755.1	744.6	731.9	730.5
50°	3400.8	1663.1	779.7	753.6	786.4	790.1	735.7	737.9	731.9	717.8	714.8
52.5°	3612.0	1632.5	752.1	744.6	768.5	727.5	711.1	719.3	717.0	699.1	696.1
55°	3844.0	1613.9	738.7	744.6	756.6	673.0	687.9	699.9	696.9	684.2	683.4
57.5°	4125.3	1617.6	729.0	746.9	744.6	645.4	664.8	679.0	678.2	674.5	674.5
60°	4413.3	1619.1	714.0	746.1	730.5	623.8	640.9	661.1	662.6	664.8	664.8
62.5°	4508.8	1554.2	684.9	732.7	699.1	602.9	618.5	646.1	644.6	650.6	651.4
65°	4330.5	1374.4	641.7	702.1	658.8	587.9	601.4	626.7	618.5	634.2	637.2
67.5°	3941.8	1137.1	574.5	646.9	614.1	572.3	590.2	599.9	585.0	615.6	616.3
70°	3406.8	887.9	489.5	568.5	563.3	555.9	581.2	566.3	545.4	582.7	575.3
72.5°	2848.7	678.2	391.0	464.8	495.4	531.2	565.6	523.0	493.9	505.1	491.7
75°	2139.9	501.4	314.1	364.1	412.6	496.2	551.4	470.8	426.0	415.6	412.6
77.5°	1090.8	327.5	235.0	272.3	309.6	448.4	532.0	409.6	352.9	336.5	329.0
80°	389.5	203.7	165.6	188.0	208.9	385.7	464.8	338.7	273.8	270.8	273.8
82.5°	180.6	131.3	111.2	123.1	123.9	257.4	354.4	252.9	208.2	316.4	267.1
85°	77.6	65.7	62.7	61.2	56.7	114.9	199.2	135.8	211.9	94.8	87.3
87.5°	23.1	26.1	23.1	17.2	12.7	12.7	20.1	7.5	5.2	3.7	3.7
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)