

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: P650757

Luminaire Tested: **GALN-SA2C-840-U-T2R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P650757
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-10)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2C-840-U-T2R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10447.8 lumens
Efficiency: N/A
Efficacy: 96.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

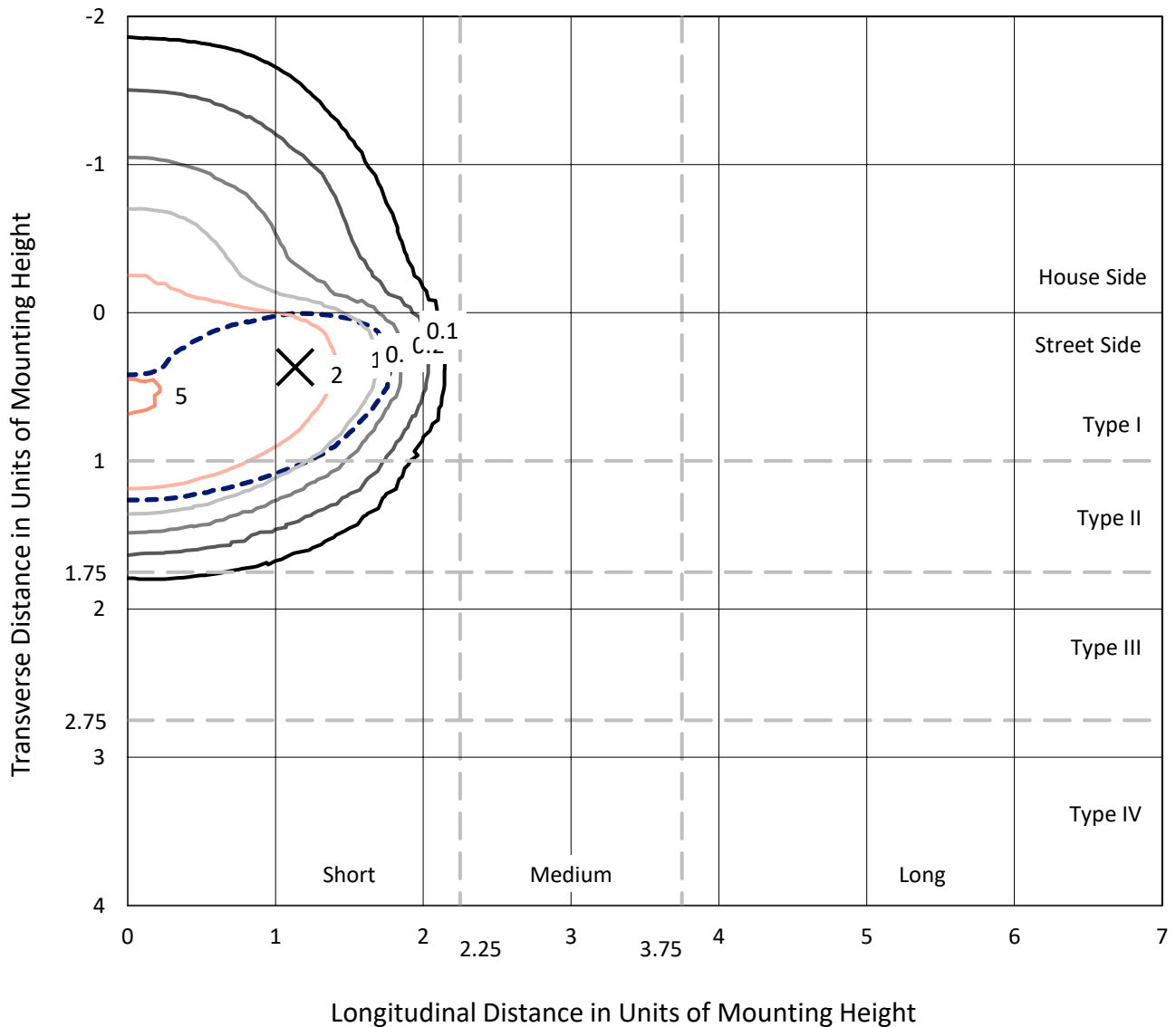
Input Watts (W): 108
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

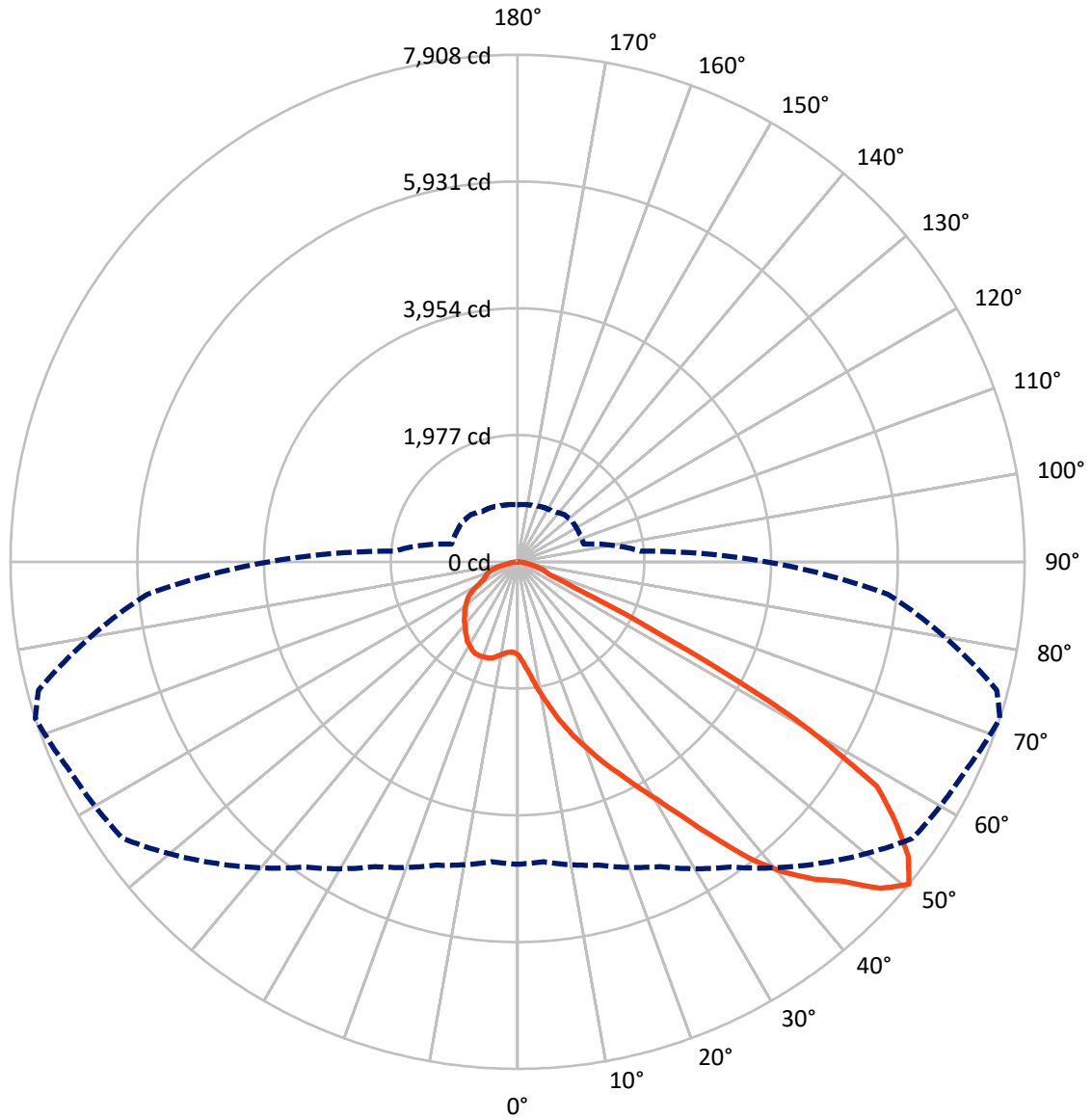
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2393.6	0.0	2393.6
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	8054.1	0.0	8054.1
	% Fixture	77.1	0.0	77.1
Total	Lumens	10447.8	0.0	10447.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	171.1	1.6
10°-20°	639.5	6.1
20°-30°	1240.0	11.9
30°-40°	2054.3	19.7
40°-50°	2874.4	27.5
50°-60°	2424.9	23.2
60°-70°	739.1	7.1
70°-80°	259.3	2.5
80°-90°	45.1	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°	10447.8	100.0
0°-180°	10447.8	100.0

Coefficient of Utilization

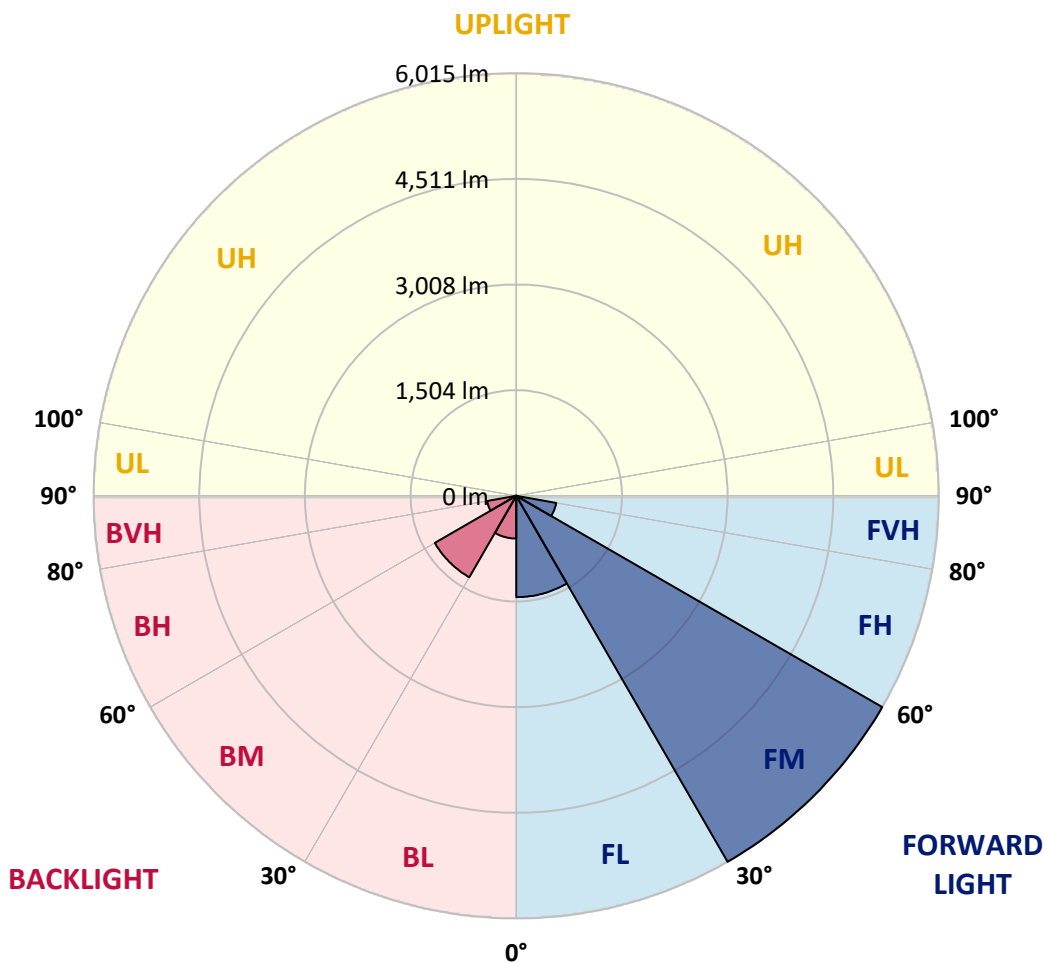


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1442.2	13.8			
FM (30°-60°)	6015.0	57.6			
FH (60°-80°)	576.7	5.5			G0/660
FVH (80°-90°)	20.2	0.2			G1/100
BL (0°-30°)	608.5	5.8	B2/1000		
BM (30°-60°)	1338.6	12.8	B2/2500		
BH (60°-80°)	421.7	4.0	B1/500		G1/500
BVH (80°-90°)	24.9	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	1454.4	1454.4	1454.4	1454.4	1454.4	1454.4	1454.4	1454.4	1454.4	1454.4	1454.4
2.5°	1870.7	1859.0	1824.1	1812.5	1771.1	1696.2	1670.3	1594.0	1561.7	1532.0	1497.1
5°	2365.8	2311.6	2307.7	2241.8	2146.1	2090.5	1925.0	1813.8	1711.7	1660.0	1564.3
7.5°	2681.3	2682.6	2682.6	2628.3	2552.0	2411.1	2262.5	2062.0	1908.2	1832.0	1669.0
10°	2981.3	2955.4	2941.1	2936.0	2884.3	2747.2	2588.2	2340.0	2129.2	2040.1	1747.9
12.5°	3193.3	3171.2	3203.6	3186.8	3149.3	3060.1	2910.1	2627.0	2363.3	2243.0	1874.6
15°	3294.1	3309.6	3335.5	3382.0	3365.2	3331.6	3166.1	2921.7	2615.3	2479.6	1987.0
17.5°	3449.2	3406.6	3437.6	3495.8	3542.3	3526.8	3432.5	3135.1	2864.9	2698.1	2138.3
20°	3557.9	3533.3	3548.8	3616.0	3650.9	3738.8	3689.7	3414.3	3104.0	2928.2	2316.7
22.5°	3868.1	3831.9	3781.5	3791.8	3804.8	3866.8	3878.4	3720.8	3382.0	3195.8	2486.1
25°	4250.8	4217.2	4157.7	4096.9	4059.4	4047.8	4087.8	3961.2	3648.3	3455.7	2668.3
27.5°	4672.3	4615.3	4577.8	4452.4	4351.6	4336.1	4316.7	4248.1	3963.8	3755.7	2873.9
30°	5082.1	5036.8	4986.4	4786.0	4681.3	4664.4	4568.8	4588.2	4306.3	4075.0	3106.7
32.5°	5392.3	5396.2	5281.1	5129.8	5031.6	4942.4	4907.5	4963.1	4745.9	4559.7	3366.5
35°	5643.1	5654.8	5544.9	5407.8	5301.8	5363.9	5348.3	5374.2	5270.8	5043.2	3669.0
37.5°	5887.5	5829.3	5711.7	5645.7	5590.1	5692.2	5824.1	5846.1	5865.5	5597.9	4020.7
40°	5927.5	5932.8	5864.2	5910.7	5840.9	5994.8	6301.2	6272.8	6351.6	6117.6	4402.0
42.5°	5870.7	5882.3	5909.5	5975.4	6143.4	6328.4	6783.4	6667.0	6762.7	6554.6	4773.1
45°	5777.6	5729.7	5763.4	6014.2	6305.1	6716.1	7224.3	7133.8	7102.7	6928.2	5215.2
47.5°	5332.9	5382.0	5486.7	5795.7	6232.7	6783.4	7537.1	7516.4	7609.5	7486.7	5617.3
50°	4716.2	4696.8	4898.5	5246.2	5809.9	6651.6	7520.3	7707.8	7908.2	7737.5	5797.0
52.5°	3531.9	3635.4	3808.6	4240.4	5044.6	5932.8	7153.1	7466.0	7628.9	7592.7	5652.2
55°	2232.7	2263.7	2368.4	2881.7	3605.6	4761.4	6131.8	6857.1	7148.0	7283.7	5519.0
57.5°	1084.6	1026.5	1154.4	1566.9	2082.7	3202.3	4729.1	5972.8	6605.0	6850.6	5229.4
60°	566.2	588.2	638.7	786.0	1076.9	1662.6	2947.6	3980.5	4946.3	5323.8	3963.8
62.5°	469.3	477.0	510.7	584.3	716.2	956.7	1504.8	1940.5	2522.2	2862.3	2254.6
65°	398.2	402.1	438.2	487.4	571.5	673.6	774.4	810.6	981.3	1007.1	801.6
67.5°	332.3	336.1	374.9	421.4	475.8	502.9	528.7	526.2	545.6	537.8	536.6
70°	256.0	259.9	299.9	349.1	376.2	360.7	440.9	458.9	466.7	473.1	483.5
72.5°	184.9	192.6	223.6	258.5	244.3	280.6	363.3	390.4	400.7	404.7	417.6
75°	134.5	137.0	144.8	134.5	155.2	195.2	256.0	289.6	302.5	306.4	325.8
77.5°	59.5	60.7	62.1	77.5	99.6	121.5	152.6	179.7	197.8	202.9	208.1
80°	31.0	32.3	40.1	53.0	71.1	89.2	111.2	126.7	138.3	139.6	144.8
82.5°	19.4	20.7	28.4	37.5	50.5	65.9	81.4	94.4	103.4	104.7	106.1
85°	9.1	11.6	16.8	23.3	33.6	42.6	44.0	37.5	40.1	41.4	38.8
87.5°	2.6	3.9	5.1	3.9	5.1	5.1	6.5	7.7	7.7	7.7	9.1
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°	1454.4	1454.4	1454.4	1454.4	1454.4	1454.4	1454.4	1454.4	1454.4	1454.4	1454.4
2.5°	1477.7	1466.0	1420.8	1404.0	1360.1	1367.8	1344.5	1343.2	1338.0	1336.8	1335.5
5°	1513.9	1477.7	1423.4	1382.0	1357.5	1354.9	1338.0	1338.0	1343.2	1347.1	1338.0
7.5°	1573.3	1532.0	1440.2	1401.4	1379.4	1375.5	1363.9	1354.9	1366.5	1362.6	1352.2
10°	1641.9	1569.5	1472.5	1438.9	1402.7	1393.6	1393.6	1397.5	1378.1	1384.6	1374.3
12.5°	1718.2	1621.2	1513.9	1475.1	1432.5	1427.3	1424.7	1396.2	1406.6	1401.4	1375.5
15°	1815.1	1680.7	1566.9	1500.9	1464.8	1441.5	1407.8	1402.7	1396.2	1383.3	1371.7
17.5°	1919.8	1745.3	1591.4	1508.8	1454.4	1437.6	1411.8	1384.6	1365.2	1367.8	1358.7
20°	2009.1	1804.8	1600.5	1516.5	1446.7	1414.3	1374.3	1357.5	1336.8	1335.5	1334.2
22.5°	2115.0	1884.9	1613.5	1495.8	1423.4	1389.8	1362.6	1332.9	1318.7	1300.6	1309.6
25°	2241.8	1916.0	1616.0	1484.1	1406.6	1347.1	1332.9	1300.6	1295.4	1269.6	1274.7
27.5°	2333.5	1932.8	1595.3	1447.9	1367.8	1322.6	1296.7	1273.4	1264.4	1245.0	1239.8
30°	2456.3	1958.6	1551.4	1402.7	1329.0	1278.6	1263.1	1257.9	1232.1	1211.4	1208.8
32.5°	2596.0	1975.4	1523.0	1356.2	1288.9	1250.1	1257.9	1233.3	1201.0	1183.0	1177.7
35°	2707.2	1981.9	1451.8	1303.1	1261.8	1237.2	1228.2	1223.0	1176.5	1159.7	1146.7
37.5°	2876.5	1967.7	1392.4	1265.7	1232.1	1223.0	1215.2	1180.3	1127.4	1102.8	1084.6
40°	3074.3	1963.8	1316.1	1212.6	1203.6	1214.0	1190.7	1136.4	1062.7	1035.5	1022.7
42.5°	3264.3	1990.9	1268.2	1184.2	1172.6	1176.5	1144.2	1062.7	1026.5	1011.0	990.3
45°	3582.4	2047.8	1189.4	1140.2	1135.1	1132.5	1093.7	1008.4	987.7	968.3	964.5
47.5°	3869.4	2010.3	1139.0	1095.0	1100.2	1086.0	1003.2	976.1	952.8	933.4	927.0
50°	3886.2	1921.1	1067.9	1060.1	1061.4	1036.9	958.0	939.9	910.1	897.2	888.2
52.5°	3798.3	1775.0	1002.0	1004.5	1008.4	968.3	902.4	889.4	864.9	846.8	841.6
55°	3551.4	1547.5	937.3	947.6	958.0	881.7	861.0	828.7	809.3	783.5	784.7
57.5°	3128.6	1246.3	846.8	863.6	885.6	801.6	786.0	746.0	717.5	696.9	694.2
60°	2096.9	886.8	711.1	717.5	766.7	733.0	731.8	691.6	652.9	634.8	624.4
62.5°	1237.2	677.4	614.1	607.6	606.4	625.7	658.1	643.8	593.4	558.5	568.9
65°	647.7	585.7	571.5	549.4	536.6	531.3	555.9	562.4	528.7	491.2	488.7
67.5°	544.3	544.3	532.6	524.9	506.8	484.8	469.3	448.6	443.5	433.1	420.2
70°	495.2	508.0	504.2	486.1	470.6	446.0	406.0	372.3	340.0	328.4	336.1
72.5°	431.8	444.7	444.7	435.6	415.0	377.5	338.8	299.9	272.8	252.1	249.5
75°	332.3	338.8	354.2	343.9	316.7	293.5	253.4	213.3	187.5	168.0	164.2
77.5°	212.0	222.4	222.4	221.1	201.7	179.7	153.8	125.4	106.1	91.8	87.9
80°	141.0	147.3	152.6	147.3	134.5	117.7	98.2	78.9	64.7	53.0	50.5
82.5°	103.4	111.2	115.0	109.9	97.0	84.0	69.8	55.6	41.4	32.3	29.8
85°	40.1	41.4	46.5	55.6	54.3	53.0	42.6	31.0	23.3	16.8	15.5
87.5°	10.3	9.1	10.3	10.3	9.1	7.7	7.7	7.7	7.7	3.9	5.1
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)