

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: P527488

Luminaire Tested: **GALN-SA2C-730-U-T2R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527488
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-730-U-T2R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3000K, 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: 11314 lumens
Efficiency: N/A
Efficacy: 104.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

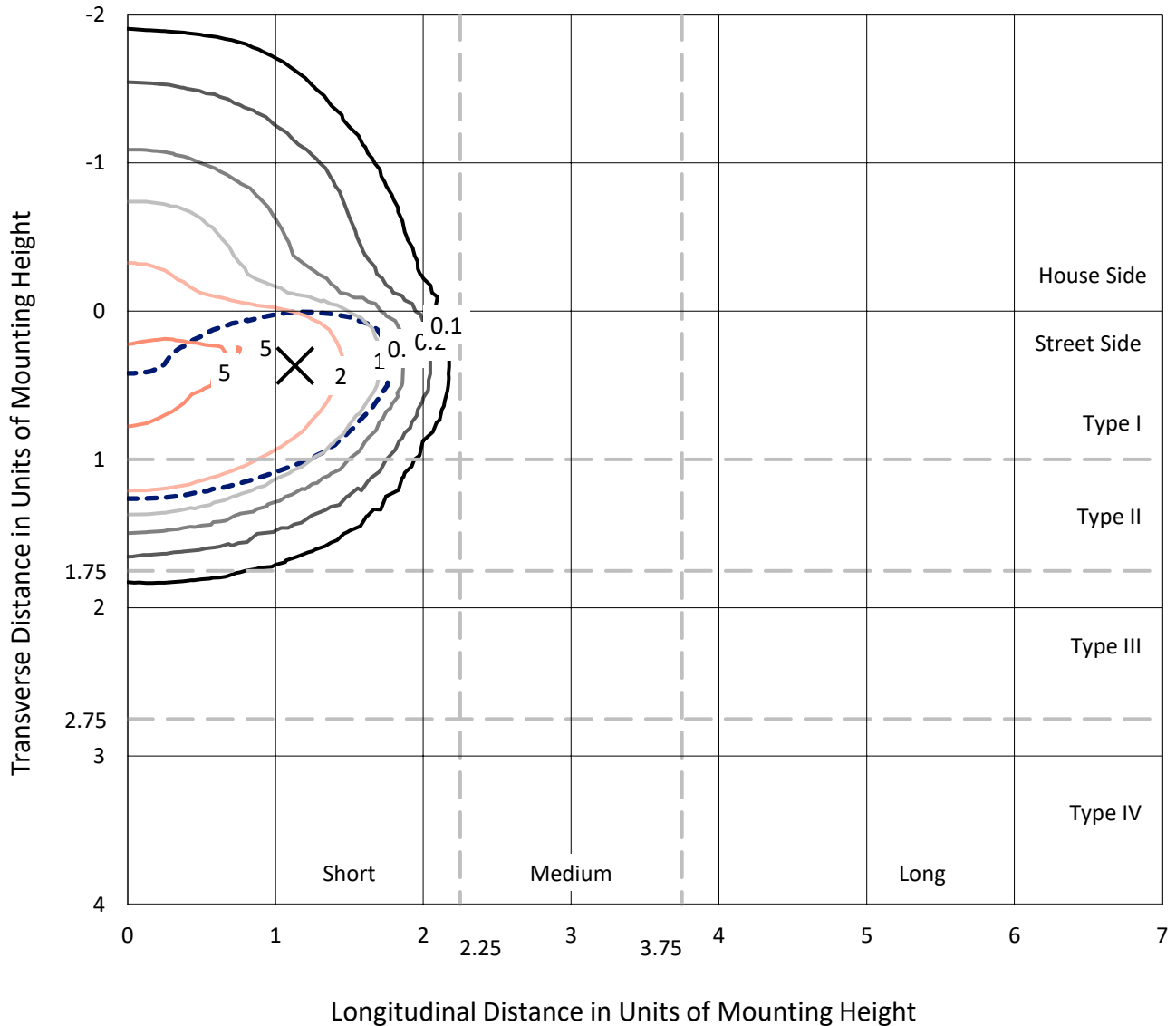
Input Watts (W): 108
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

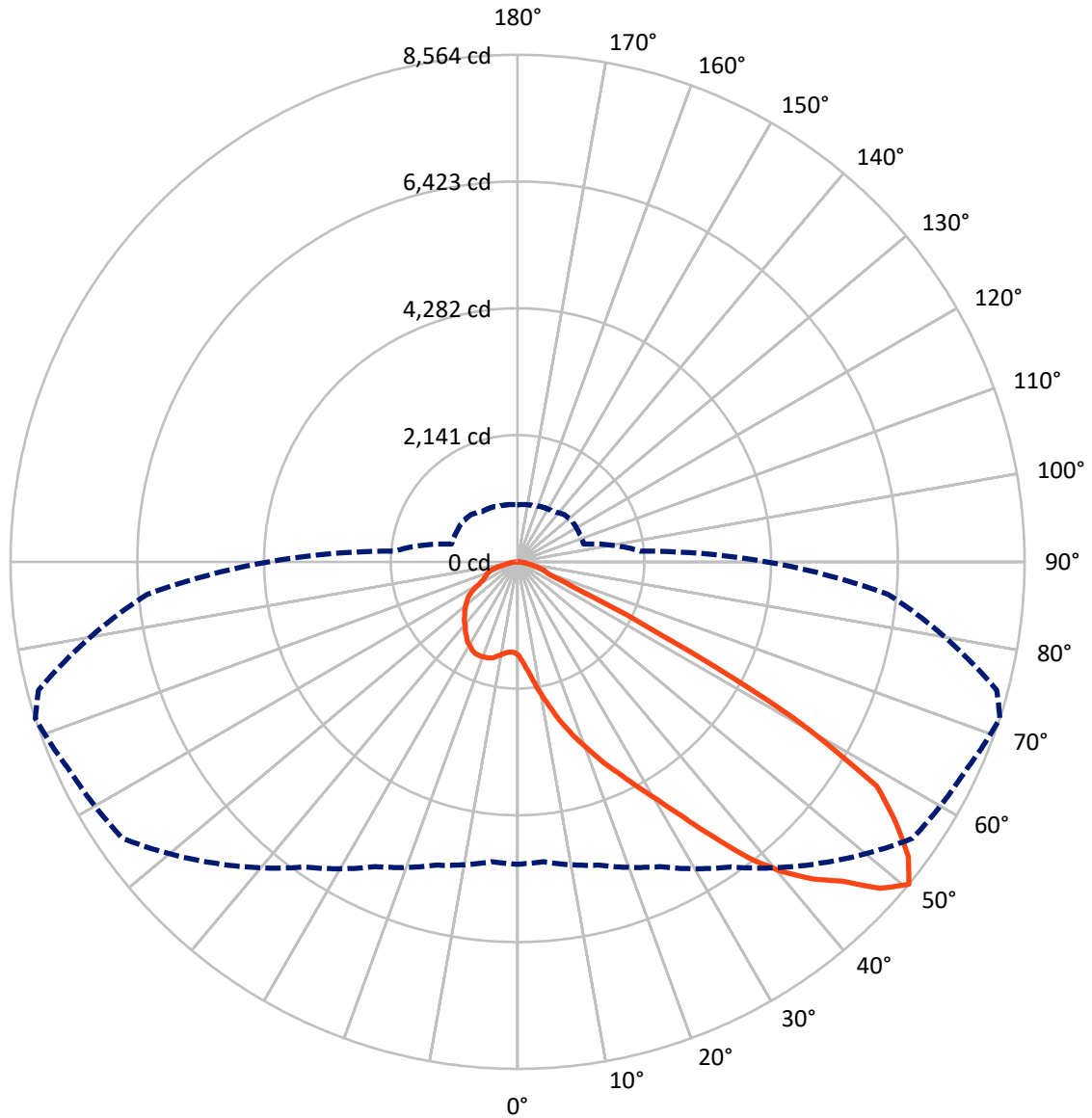
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 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	2592.1	0.0	2592.1
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	8721.9	0.0	8721.9
	% Fixture	77.1	0.0	77.1
Total	Lumens	11314.0	0.0	11314.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	185.3	1.6
10°-20°	692.6	6.1
20°-30°	1342.8	11.9
30°-40°	2224.6	19.7
40°-50°	3112.7	27.5
50°-60°	2626.0	23.2
60°-70°	800.4	7.1
70°-80°	280.8	2.5
80°-90°	48.8	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°	11314.0	100.0
0°-180°	11314.0	100.0

Coefficient of Utilization

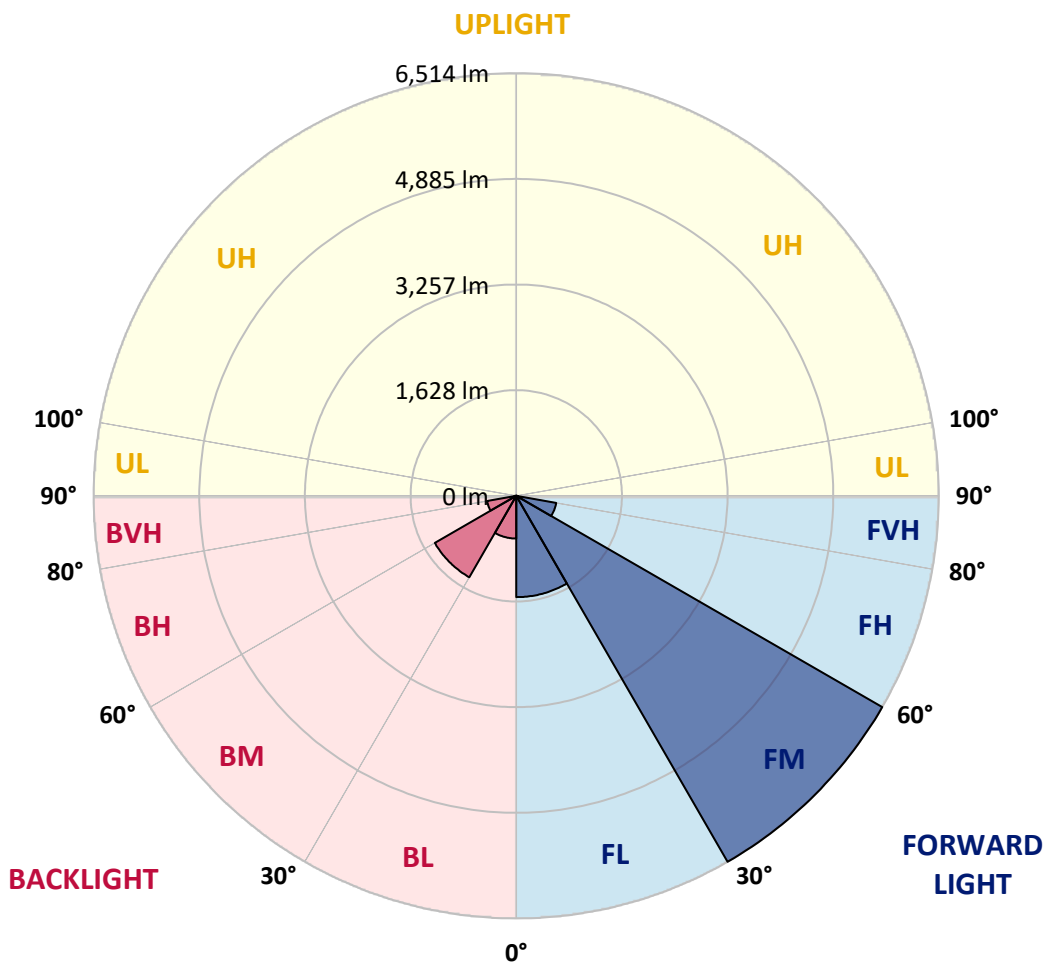


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1561.7	13.8			
FM (30°-60°)	6513.8	57.6			
FH (60°-80°)	624.5	5.5			G0/660
FVH (80°-90°)	21.9	0.2			G1/100
BL (0°-30°)	658.9	5.8	B2/1000		
BM (30°-60°)	1449.5	12.8	B2/2500		
BH (60°-80°)	456.7	4.0	B1/500		G1/500
BVH (80°-90°)	27.0	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°	1575.0	1575.0	1575.0	1575.0	1575.0	1575.0	1575.0	1575.0	1575.0	1575.0	1575.0
2.5°	2025.8	2013.2	1975.4	1962.8	1918.0	1836.8	1808.8	1726.2	1691.2	1659.0	1621.2
5°	2562.0	2503.2	2499.0	2427.6	2324.0	2263.8	2084.6	1964.2	1853.6	1797.6	1694.0
7.5°	2903.6	2905.0	2905.0	2846.2	2763.6	2611.0	2450.0	2233.0	2066.4	1983.8	1807.4
10°	3228.4	3200.4	3185.0	3179.4	3123.4	2975.0	2802.8	2534.0	2305.8	2209.2	1892.8
12.5°	3458.0	3434.2	3469.2	3451.0	3410.4	3313.8	3151.4	2844.8	2559.2	2429.0	2030.0
15°	3567.2	3584.0	3612.0	3662.4	3644.2	3607.8	3428.6	3164.0	2832.2	2685.2	2151.8
17.5°	3735.2	3689.0	3722.6	3785.6	3836.0	3819.2	3717.0	3395.0	3102.4	2921.8	2315.6
20°	3852.8	3826.2	3843.0	3915.8	3953.6	4048.8	3995.6	3697.4	3361.4	3171.0	2508.8
22.5°	4188.8	4149.6	4095.0	4106.2	4120.2	4187.4	4200.0	4029.2	3662.4	3460.8	2692.2
25°	4603.2	4566.8	4502.4	4436.6	4396.0	4383.4	4426.8	4289.6	3950.8	3742.2	2889.6
27.5°	5059.6	4998.0	4957.4	4821.6	4712.4	4695.6	4674.6	4600.4	4292.4	4067.0	3112.2
30°	5503.4	5454.4	5399.8	5182.8	5069.4	5051.2	4947.6	4968.6	4663.4	4412.8	3364.2
32.5°	5839.4	5843.6	5719.0	5555.2	5448.8	5352.2	5314.4	5374.6	5139.4	4937.8	3645.6
35°	6111.0	6123.6	6004.6	5856.2	5741.4	5808.6	5791.8	5819.8	5707.8	5461.4	3973.2
37.5°	6375.6	6312.6	6185.2	6113.8	6053.6	6164.2	6307.0	6330.8	6351.8	6062.0	4354.0
40°	6419.0	6424.6	6350.4	6400.8	6325.2	6491.8	6823.6	6792.8	6878.2	6624.8	4767.0
42.5°	6357.4	6370.0	6399.4	6470.8	6652.8	6853.0	7345.8	7219.8	7323.4	7098.0	5168.8
45°	6256.6	6204.8	6241.2	6512.8	6827.8	7273.0	7823.2	7725.2	7691.6	7502.6	5647.6
47.5°	5775.0	5828.2	5941.6	6276.2	6749.4	7345.8	8162.0	8139.6	8240.4	8107.4	6083.0
50°	5107.2	5086.2	5304.6	5681.2	6291.6	7203.0	8143.8	8346.8	8563.8	8379.0	6277.6
52.5°	3824.8	3936.8	4124.4	4592.0	5462.8	6424.6	7746.2	8085.0	8261.4	8222.2	6120.8
55°	2417.8	2451.4	2564.8	3120.6	3904.6	5156.2	6640.2	7425.6	7740.6	7887.6	5976.6
57.5°	1174.6	1111.6	1250.2	1696.8	2255.4	3467.8	5121.2	6468.0	7152.6	7418.6	5663.0
60°	613.2	637.0	691.6	851.2	1166.2	1800.4	3192.0	4310.6	5356.4	5765.2	4292.4
62.5°	508.2	516.6	553.0	632.8	775.6	1036.0	1629.6	2101.4	2731.4	3099.6	2441.6
65°	431.2	435.4	474.6	527.8	618.8	729.4	838.6	877.8	1062.6	1090.6	868.0
67.5°	359.8	364.0	406.0	456.4	515.2	544.6	572.6	569.8	590.8	582.4	581.0
70°	277.2	281.4	324.8	378.0	407.4	390.6	477.4	497.0	505.4	512.4	523.6
72.5°	200.2	208.6	242.2	280.0	264.6	303.8	393.4	422.8	434.0	438.2	452.2
75°	145.6	148.4	156.8	145.6	168.0	211.4	277.2	313.6	327.6	331.8	352.8
77.5°	64.4	65.8	67.2	84.0	107.8	131.6	165.2	194.6	214.2	219.8	225.4
80°	33.6	35.0	43.4	57.4	77.0	96.6	120.4	137.2	149.8	151.2	156.8
82.5°	21.0	22.4	30.8	40.6	54.6	71.4	88.2	102.2	112.0	113.4	114.8
85°	9.8	12.6	18.2	25.2	36.4	46.2	47.6	40.6	43.4	44.8	42.0
87.5°	2.8	4.2	5.6	4.2	5.6	5.6	7.0	8.4	8.4	8.4	9.8
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°	1575.0	1575.0	1575.0	1575.0	1575.0	1575.0	1575.0	1575.0	1575.0	1575.0	1575.0
2.5°	1600.2	1587.6	1538.6	1520.4	1472.8	1481.2	1456.0	1454.6	1449.0	1447.6	1446.2
5°	1639.4	1600.2	1541.4	1496.6	1470.0	1467.2	1449.0	1449.0	1454.6	1458.8	1449.0
7.5°	1703.8	1659.0	1559.6	1517.6	1493.8	1489.6	1477.0	1467.2	1479.8	1475.6	1464.4
10°	1778.0	1699.6	1594.6	1558.2	1519.0	1509.2	1509.2	1513.4	1492.4	1499.4	1488.2
12.5°	1860.6	1755.6	1639.4	1597.4	1551.2	1545.6	1542.8	1512.0	1523.2	1517.6	1489.6
15°	1965.6	1820.0	1696.8	1625.4	1586.2	1561.0	1524.6	1519.0	1512.0	1498.0	1485.4
17.5°	2079.0	1890.0	1723.4	1633.8	1575.0	1556.8	1528.8	1499.4	1478.4	1481.2	1471.4
20°	2175.6	1954.4	1733.2	1642.2	1566.6	1531.6	1488.2	1470.0	1447.6	1446.2	1444.8
22.5°	2290.4	2041.2	1747.2	1619.8	1541.4	1505.0	1475.6	1443.4	1428.0	1408.4	1418.2
25°	2427.6	2074.8	1750.0	1607.2	1523.2	1458.8	1443.4	1408.4	1402.8	1374.8	1380.4
27.5°	2527.0	2093.0	1727.6	1568.0	1481.2	1432.2	1404.2	1379.0	1369.2	1348.2	1342.6
30°	2660.0	2121.0	1680.0	1519.0	1439.2	1384.6	1367.8	1362.2	1334.2	1311.8	1309.0
32.5°	2811.2	2139.2	1649.2	1468.6	1395.8	1353.8	1362.2	1335.6	1300.6	1281.0	1275.4
35°	2931.6	2146.2	1572.2	1411.2	1366.4	1339.8	1330.0	1324.4	1274.0	1255.8	1241.8
37.5°	3115.0	2130.8	1507.8	1370.6	1334.2	1324.4	1316.0	1278.2	1220.8	1194.2	1174.6
40°	3329.2	2126.6	1425.2	1313.2	1303.4	1314.6	1289.4	1230.6	1150.8	1121.4	1107.4
42.5°	3535.0	2156.0	1373.4	1282.4	1269.8	1274.0	1239.0	1150.8	1111.6	1094.8	1072.4
45°	3879.4	2217.6	1288.0	1234.8	1229.2	1226.4	1184.4	1092.0	1069.6	1048.6	1044.4
47.5°	4190.2	2177.0	1233.4	1185.8	1191.4	1176.0	1086.4	1057.0	1031.8	1010.8	1003.8
50°	4208.4	2080.4	1156.4	1148.0	1149.4	1122.8	1037.4	1017.8	985.6	971.6	961.8
52.5°	4113.2	1922.2	1085.0	1087.8	1092.0	1048.6	977.2	963.2	936.6	917.0	911.4
55°	3845.8	1675.8	1015.0	1026.2	1037.4	954.8	932.4	897.4	876.4	848.4	849.8
57.5°	3388.0	1349.6	917.0	935.2	959.0	868.0	851.2	807.8	777.0	754.6	751.8
60°	2270.8	960.4	770.0	777.0	830.2	793.8	792.4	749.0	707.0	687.4	676.2
62.5°	1339.8	733.6	665.0	658.0	656.6	677.6	712.6	697.2	642.6	604.8	616.0
65°	701.4	634.2	618.8	595.0	581.0	575.4	602.0	609.0	572.6	532.0	529.2
67.5°	589.4	589.4	576.8	568.4	548.8	525.0	508.2	485.8	480.2	469.0	455.0
70°	536.2	550.2	546.0	526.4	509.6	483.0	439.6	403.2	368.2	355.6	364.0
72.5°	467.6	481.6	481.6	471.8	449.4	408.8	366.8	324.8	295.4	273.0	270.2
75°	359.8	366.8	383.6	372.4	343.0	317.8	274.4	231.0	203.0	182.0	177.8
77.5°	229.6	240.8	240.8	239.4	218.4	194.6	166.6	135.8	114.8	99.4	95.2
80°	152.6	159.6	165.2	159.6	145.6	127.4	106.4	85.4	70.0	57.4	54.6
82.5°	112.0	120.4	124.6	119.0	105.0	91.0	75.6	60.2	44.8	35.0	32.2
85°	43.4	44.8	50.4	60.2	58.8	57.4	46.2	33.6	25.2	18.2	16.8
87.5°	11.2	9.8	11.2	11.2	9.8	8.4	8.4	8.4	8.4	4.2	5.6
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)