

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: P527462

Luminaire Tested: **GALN-SA2C-727-U-T2R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527462
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-727-U-T2R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 2700K, 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: 10390 lumens
Efficiency: N/A
Efficacy: 96.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

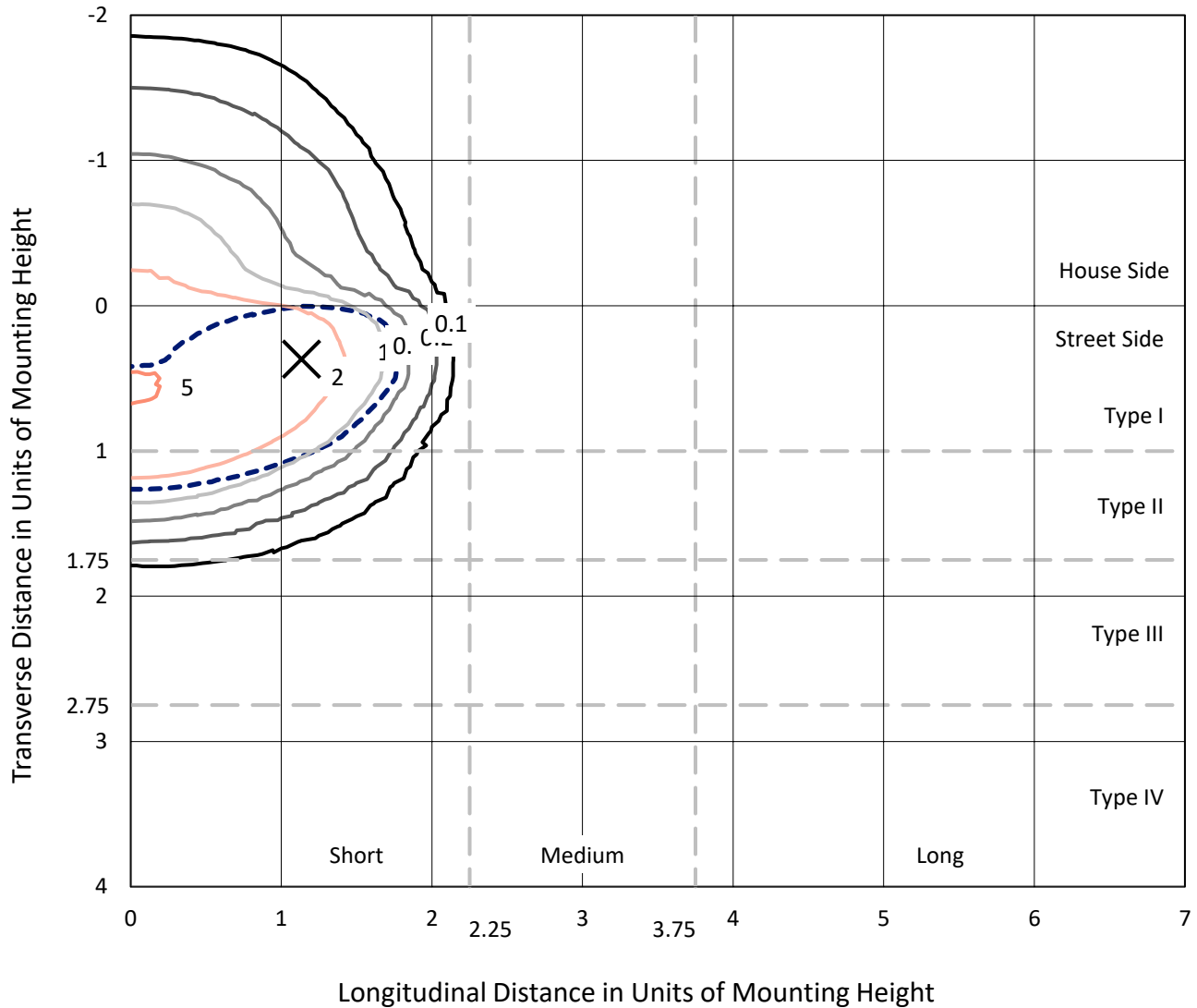
Input Watts (W): 108
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

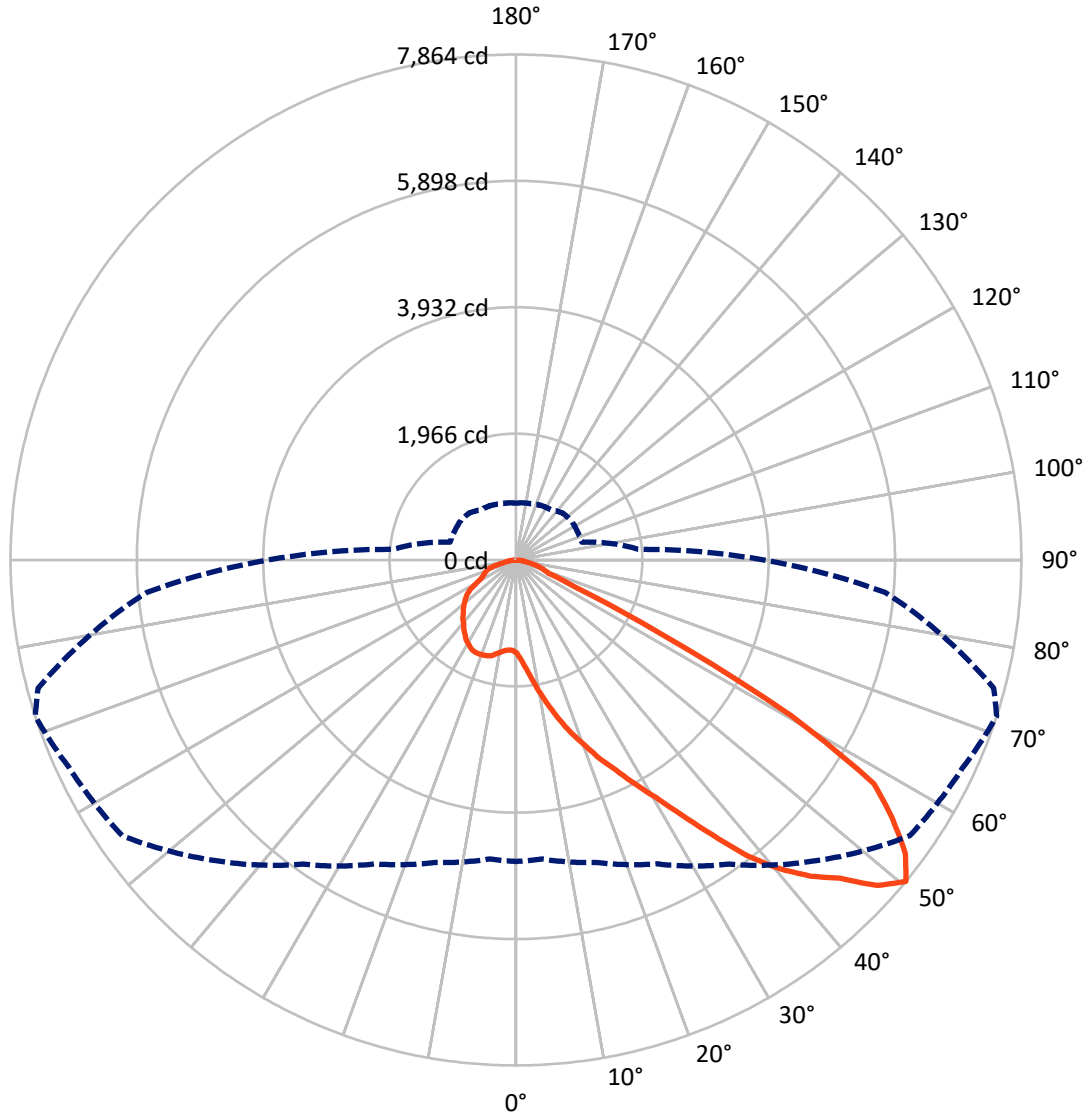
✕ Max cd
 - - - 1/2 Max cd



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	2380.4	0.0	2380.4
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	8009.6	0.0	8009.6
	% Fixture	77.1	0.0	77.1
Total	Lumens	10390.0	0.0	10390.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	170.1	1.6
10°-20°	636.0	6.1
20°-30°	1233.2	11.9
30°-40°	2042.9	19.7
40°-50°	2858.5	27.5
50°-60°	2411.5	23.2
60°-70°	735.0	7.1
70°-80°	257.9	2.5
80°-90°	44.8	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°	10390.0	100.0
0°-180°	10390.0	100.0

Coefficient of Utilization



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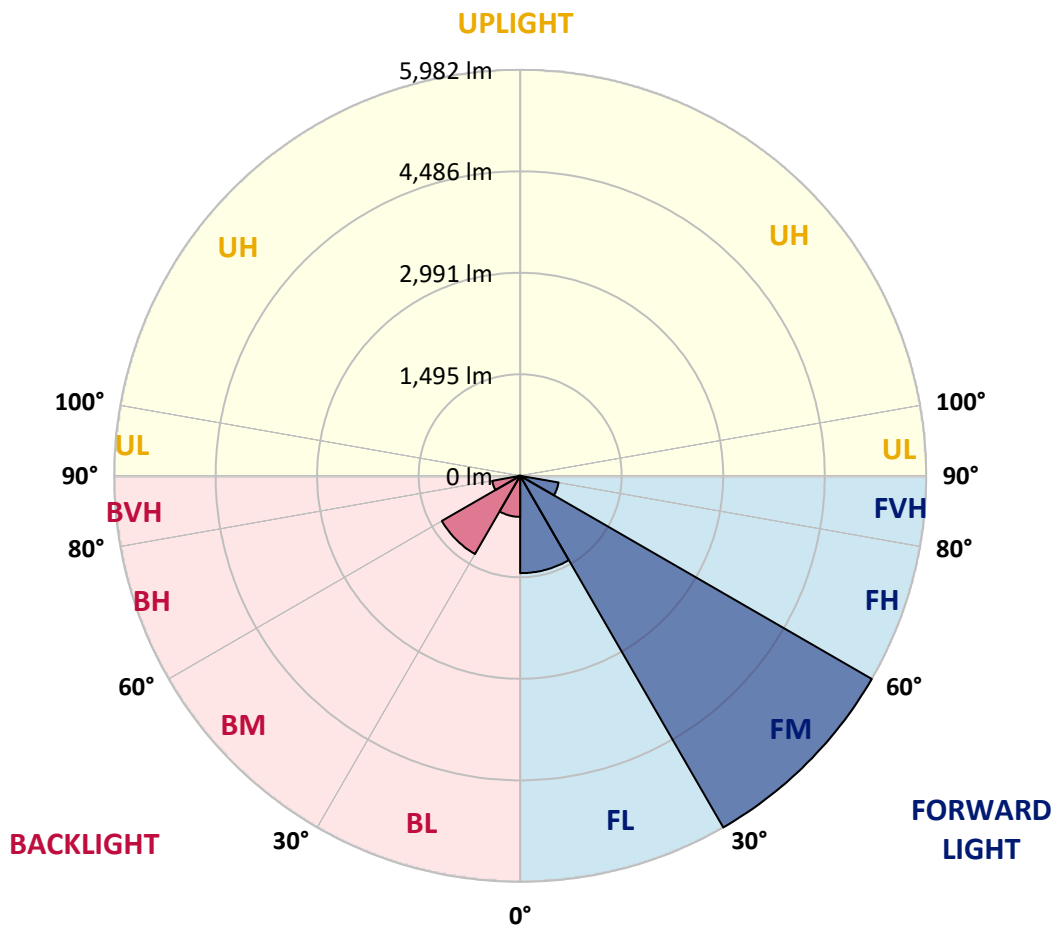
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1434.2	13.8			
FM (30°-60°)	5981.8	57.6			
FH (60°-80°)	573.5	5.5			G0/660
FVH (80°-90°)	20.1	0.2			G1/100
BL (0°-30°)	605.1	5.8	B2/1000		
BM (30°-60°)	1331.2	12.8	B2/2500		
BH (60°-80°)	419.4	4.0	B1/500		G1/500
BVH (80°-90°)	24.8	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°	1446.4	1446.4	1446.4	1446.4	1446.4	1446.4	1446.4	1446.4	1446.4	1446.4	1446.4
2.5°	1860.4	1848.8	1814.1	1802.5	1761.4	1686.8	1661.1	1585.2	1553.1	1523.5	1488.8
5°	2352.8	2298.8	2294.9	2229.3	2134.2	2078.9	1914.4	1803.8	1702.2	1650.8	1555.7
7.5°	2666.5	2667.8	2667.8	2613.8	2537.9	2397.8	2249.9	2050.6	1897.6	1821.8	1659.8
10°	2964.8	2939.0	2924.9	2919.8	2868.3	2732.0	2573.9	2327.1	2117.5	2028.8	1738.2
12.5°	3175.6	3153.7	3185.9	3169.2	3131.9	3043.2	2894.0	2612.5	2350.2	2230.6	1864.2
15°	3275.9	3291.3	3317.0	3363.3	3346.6	3313.2	3148.6	2905.6	2600.9	2465.9	1976.1
17.5°	3430.2	3387.7	3418.6	3476.4	3522.7	3507.3	3413.4	3117.7	2849.0	2683.2	2126.5
20°	3538.2	3513.7	3529.2	3596.0	3630.7	3718.2	3669.3	3395.4	3086.9	2912.0	2303.9
22.5°	3846.7	3810.7	3760.6	3770.9	3783.7	3845.4	3857.0	3700.2	3363.3	3178.2	2472.3
25°	4227.3	4193.8	4134.7	4074.3	4037.0	4025.4	4065.3	3939.3	3628.2	3436.6	2653.6
27.5°	4646.4	4589.8	4552.6	4427.8	4327.6	4312.1	4292.8	4224.7	3941.9	3734.9	2858.0
30°	5054.0	5009.0	4958.8	4759.5	4655.4	4638.7	4543.6	4562.8	4282.6	4052.4	3089.5
32.5°	5362.5	5366.4	5252.0	5101.5	5003.8	4915.1	4880.4	4935.7	4719.7	4534.6	3347.9
35°	5611.9	5623.5	5514.2	5377.9	5272.5	5334.2	5318.8	5344.5	5241.7	5015.4	3648.7
37.5°	5854.9	5797.1	5680.1	5614.5	5559.2	5660.8	5791.9	5813.8	5833.1	5566.9	3998.4
40°	5894.8	5899.9	5831.8	5878.1	5808.6	5961.6	6266.3	6238.1	6316.5	6083.8	4377.7
42.5°	5838.2	5849.8	5876.8	5942.4	6109.5	6293.3	6745.9	6630.2	6725.3	6518.3	4746.7
45°	5745.7	5698.1	5731.5	5980.9	6270.2	6679.0	7184.3	7094.3	7063.5	6889.9	5186.4
47.5°	5303.4	5352.2	5456.4	5763.7	6198.2	6745.9	7495.4	7474.9	7567.4	7445.3	5586.2
50°	4690.1	4670.8	4871.4	5217.2	5777.8	6614.8	7478.7	7665.2	7864.4	7694.7	5764.9
52.5°	3512.4	3615.3	3787.6	4217.0	5016.7	5899.9	7113.6	7424.7	7586.7	7550.7	5620.9
55°	2220.3	2251.2	2355.3	2865.8	3585.7	4735.1	6097.9	6819.2	7108.5	7243.5	5488.5
57.5°	1078.7	1020.8	1148.1	1558.2	2071.2	3184.6	4703.0	5939.8	6568.5	6812.8	5200.5
60°	563.1	585.0	635.1	781.7	1071.0	1653.4	2931.3	3958.6	4919.0	5294.4	3941.9
62.5°	466.7	474.4	507.8	581.1	712.3	951.4	1496.5	1929.8	2508.3	2846.5	2242.2
65°	396.0	399.8	435.8	484.7	568.3	669.8	770.1	806.1	975.8	1001.5	797.1
67.5°	330.4	334.3	372.8	419.1	473.1	500.1	525.8	523.3	542.6	534.8	533.6
70°	254.6	258.4	298.3	347.1	374.1	358.7	438.4	456.4	464.1	470.6	480.8
72.5°	183.9	191.6	222.4	257.1	243.0	279.0	361.3	388.3	398.6	402.4	415.3
75°	133.7	136.3	144.0	133.7	154.3	194.1	254.6	288.0	300.8	304.7	324.0
77.5°	59.1	60.4	61.7	77.1	99.0	120.9	151.7	178.7	196.7	201.8	207.0
80°	30.9	32.1	39.9	52.7	70.7	88.7	110.6	126.0	137.6	138.9	144.0
82.5°	19.3	20.6	28.3	37.3	50.1	65.6	81.0	93.9	102.9	104.1	105.4
85°	9.0	11.6	16.7	23.1	33.4	42.4	43.7	37.3	39.9	41.1	38.6
87.5°	2.6	3.9	5.1	3.9	5.1	5.1	6.4	7.7	7.7	7.7	9.0
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°	1446.4	1446.4	1446.4	1446.4	1446.4	1446.4	1446.4	1446.4	1446.4	1446.4	1446.4
2.5°	1469.5	1457.9	1412.9	1396.2	1352.5	1360.2	1337.1	1335.8	1330.7	1329.4	1328.1
5°	1505.5	1469.5	1415.5	1374.4	1350.0	1347.4	1330.7	1330.7	1335.8	1339.7	1330.7
7.5°	1564.7	1523.5	1432.2	1393.7	1371.8	1368.0	1356.4	1347.4	1359.0	1355.1	1344.8
10°	1632.8	1560.8	1464.4	1430.9	1394.9	1386.0	1386.0	1389.8	1370.5	1377.0	1366.7
12.5°	1708.7	1612.2	1505.5	1466.9	1424.5	1419.4	1416.8	1388.5	1398.8	1393.7	1368.0
15°	1805.1	1671.4	1558.2	1492.7	1456.7	1433.5	1400.1	1394.9	1388.5	1375.7	1364.1
17.5°	1909.2	1735.7	1582.7	1500.4	1446.4	1429.7	1403.9	1377.0	1357.7	1360.2	1351.2
20°	1997.9	1794.8	1591.7	1508.1	1438.7	1406.5	1366.7	1350.0	1329.4	1328.1	1326.8
22.5°	2103.4	1874.5	1604.5	1487.5	1415.5	1382.1	1355.1	1325.5	1311.4	1293.4	1302.4
25°	2229.3	1905.4	1607.1	1475.9	1398.8	1339.7	1325.5	1293.4	1288.2	1262.5	1267.7
27.5°	2320.6	1922.1	1586.5	1439.9	1360.2	1315.2	1289.5	1266.4	1257.4	1238.1	1233.0
30°	2442.8	1947.8	1542.8	1394.9	1321.7	1271.5	1256.1	1251.0	1225.2	1204.7	1202.1
32.5°	2581.6	1964.5	1514.5	1348.7	1281.8	1243.2	1251.0	1226.5	1194.4	1176.4	1171.2
35°	2692.2	1970.9	1443.8	1296.0	1254.8	1230.4	1221.4	1216.2	1170.0	1153.2	1140.4
37.5°	2860.6	1956.8	1384.7	1258.7	1225.2	1216.2	1208.5	1173.8	1121.1	1096.7	1078.7
40°	3057.3	1952.9	1308.8	1206.0	1197.0	1207.2	1184.1	1130.1	1056.8	1029.8	1017.0
42.5°	3246.3	1979.9	1261.2	1177.7	1166.1	1170.0	1137.8	1056.8	1020.8	1005.4	984.8
45°	3562.6	2036.5	1182.8	1134.0	1128.8	1126.2	1087.7	1002.8	982.3	963.0	959.1
47.5°	3848.0	1999.2	1132.7	1089.0	1094.1	1080.0	997.7	970.7	947.5	928.3	921.8
50°	3864.7	1910.5	1062.0	1054.2	1055.5	1031.1	952.7	934.7	905.1	892.3	883.3
52.5°	3777.3	1765.2	996.4	999.0	1002.8	963.0	897.4	884.5	860.1	842.1	837.0
55°	3531.7	1538.9	932.1	942.4	952.7	876.8	856.3	824.1	804.8	779.1	780.4
57.5°	3111.3	1239.4	842.1	858.8	880.7	797.1	781.7	741.8	713.5	693.0	690.4
60°	2085.4	882.0	707.1	713.5	762.4	729.0	727.7	687.8	649.3	631.3	621.0
62.5°	1230.4	673.7	610.7	604.3	603.0	622.3	654.4	640.3	590.1	555.4	565.7
65°	644.1	582.4	568.3	546.4	533.6	528.4	552.8	559.3	525.8	488.6	486.0
67.5°	541.3	541.3	529.7	522.0	504.0	482.1	466.7	446.1	441.0	430.7	417.8
70°	492.4	505.3	501.4	483.4	468.0	443.6	403.7	370.3	338.1	326.6	334.3
72.5°	429.4	442.3	442.3	433.3	412.7	375.4	336.8	298.3	271.3	250.7	248.1
75°	330.4	336.8	352.3	342.0	315.0	291.8	252.0	212.1	186.4	167.1	163.3
77.5°	210.8	221.1	221.1	219.8	200.6	178.7	153.0	124.7	105.4	91.3	87.4
80°	140.1	146.6	151.7	146.6	133.7	117.0	97.7	78.4	64.3	52.7	50.1
82.5°	102.9	110.6	114.4	109.3	96.4	83.6	69.4	55.3	41.1	32.1	29.6
85°	39.9	41.1	46.3	55.3	54.0	52.7	42.4	30.9	23.1	16.7	15.4
87.5°	10.3	9.0	10.3	10.3	9.0	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)