

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: P528057

Luminaire Tested: **GALN-SA3A-760-U-T2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528057
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-13)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3A-760-U-T2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 5700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8053 lumens
Efficiency: N/A
Efficacy: 86.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

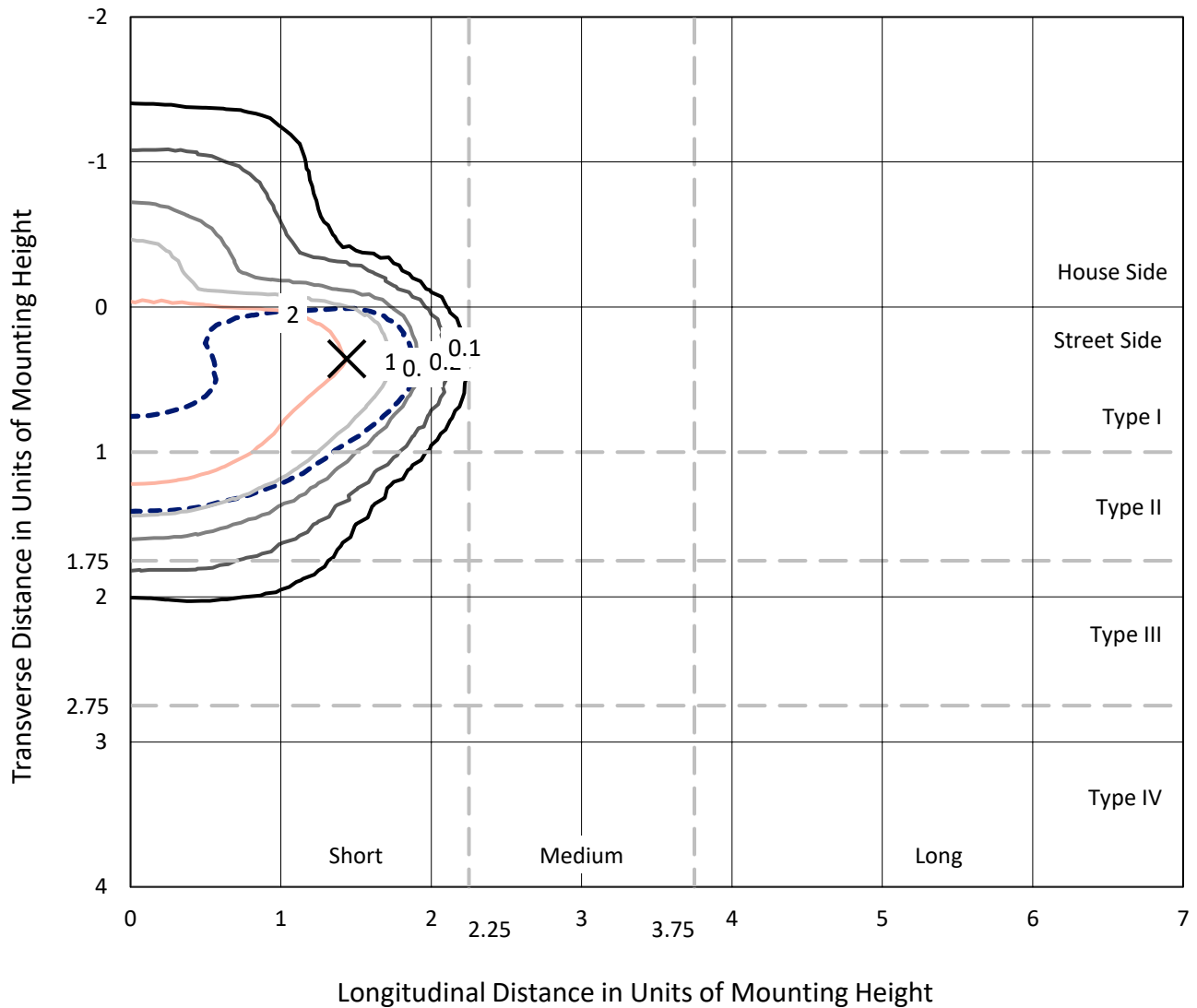
Input Watts (W): 93
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

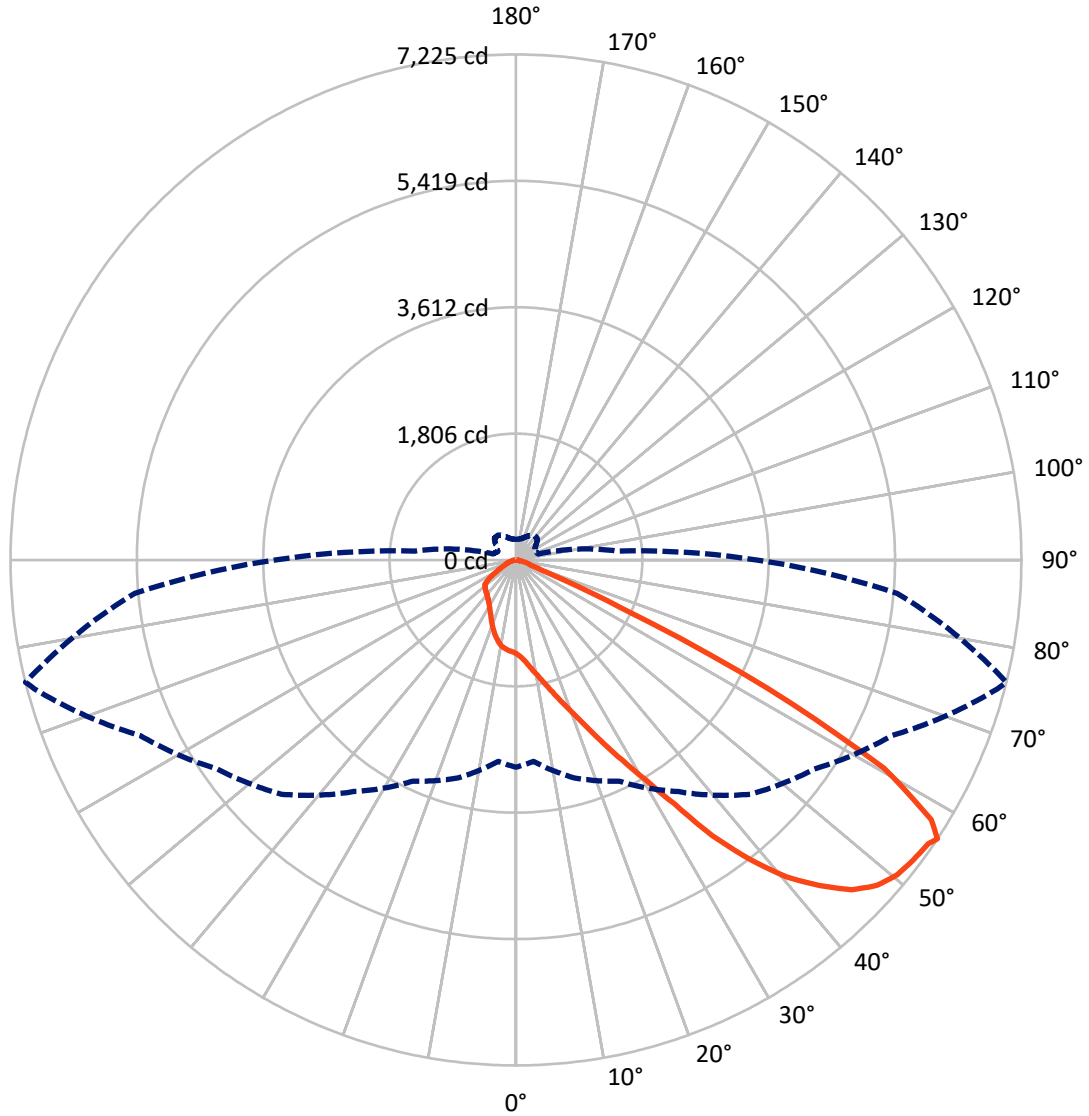
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.3 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	1265.1	0.0	1265.1
	% Fixture	15.7	0.0	15.7
Street Side	Lumens	6787.9	0.0	6787.9
	% Fixture	84.3	0.0	84.3
Total	Lumens	8053.0	0.0	8053.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	135.0	1.7
10°-20°	433.8	5.4
20°-30°	786.6	9.8
30°-40°	1356.5	16.8
40°-50°	2203.7	27.4
50°-60°	2322.8	28.8
60°-70°	709.7	8.8
70°-80°	91.0	1.1
80°-90°	13.8	0.2
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°	8053.0	100.0
0°-180°	8053.0	100.0

Coefficient of Utilization

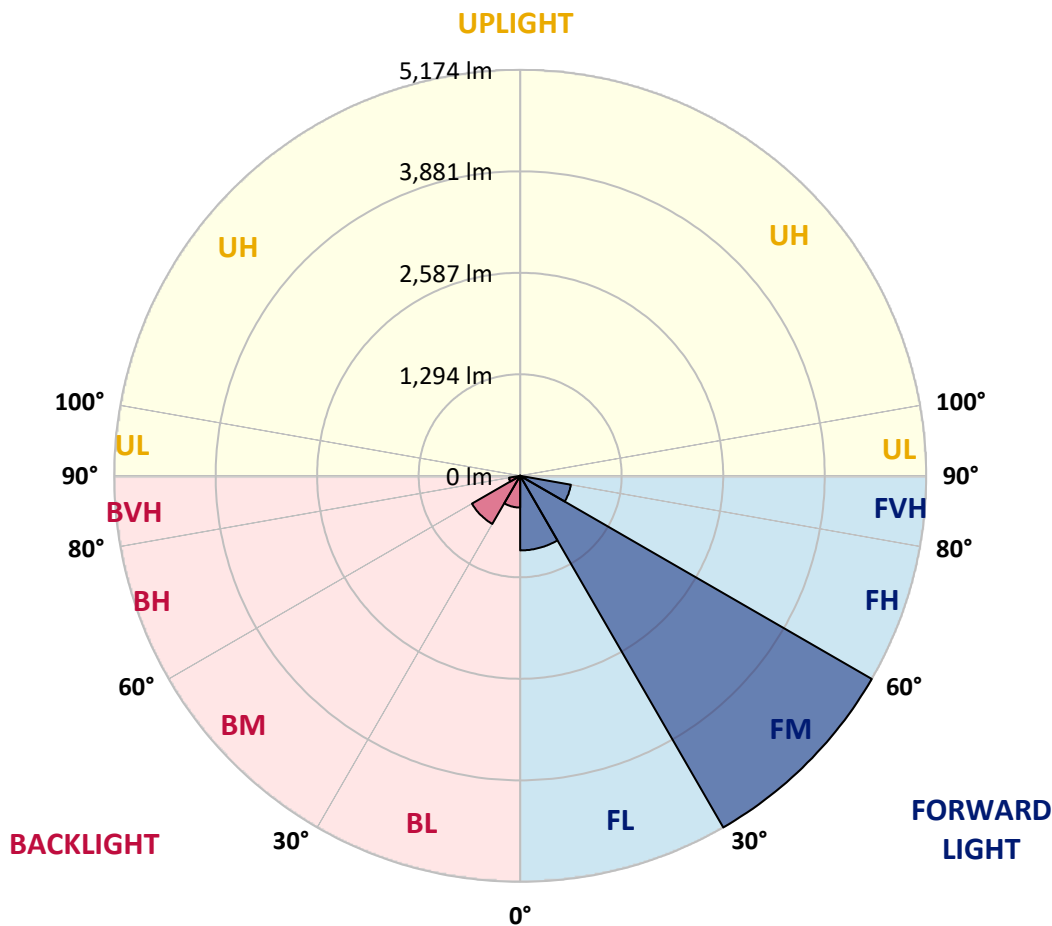


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	950.7	11.8			
FM (30°-60°)	5174.0	64.2			
FH (60°-80°)	656.4	8.2			G0/660
FVH (80°-90°)	6.8	0.1			G0/10
BL (0°-30°)	404.7	5.0	B1/500		
BM (30°-60°)	709.0	8.8	B1/1000		
BH (60°-80°)	144.3	1.8	B1/500		G1/500
BVH (80°-90°)	7.1	0.1			G0/10
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°	1340.4	1340.4	1340.4	1340.4	1340.4	1340.4	1340.4	1340.4	1340.4	1340.4	1340.4
2.5°	1543.8	1508.2	1509.7	1506.7	1502.2	1485.9	1436.9	1429.5	1396.8	1387.9	1358.2
5°	1729.4	1698.2	1716.0	1689.3	1664.0	1649.2	1569.0	1531.9	1480.0	1460.7	1419.1
7.5°	1845.1	1830.3	1824.4	1825.8	1802.1	1765.0	1729.4	1647.7	1577.9	1563.1	1475.5
10°	1901.5	1892.6	1901.5	1897.1	1907.5	1911.9	1849.6	1800.6	1698.2	1672.9	1536.4
12.5°	1914.9	1932.7	1940.1	1959.4	1984.7	2027.7	2023.3	1956.5	1819.9	1803.6	1629.9
15°	1947.6	1962.4	1955.0	1986.2	2033.7	2106.4	2145.0	2134.6	1987.6	1958.0	1738.3
17.5°	1977.3	1950.5	1975.8	2038.1	2085.6	2196.9	2290.5	2333.5	2170.2	2136.1	1837.7
20°	2017.3	2009.9	2005.5	2036.6	2121.2	2269.7	2455.2	2533.9	2375.1	2339.5	1980.2
22.5°	2139.1	2140.5	2137.6	2091.6	2152.4	2320.2	2599.2	2793.7	2620.0	2590.3	2142.0
25°	2299.4	2280.1	2265.2	2228.1	2220.7	2366.2	2744.7	3111.4	2913.9	2893.1	2317.2
27.5°	2468.6	2468.6	2424.1	2389.9	2342.4	2480.5	2878.3	3420.1	3268.7	3240.5	2470.1
30°	2652.7	2663.1	2657.1	2584.4	2554.7	2605.2	3014.9	3815.0	3675.4	3639.8	2722.4
32.5°	2924.3	2902.0	2927.3	2866.4	2778.8	2823.4	3230.1	4168.3	4203.9	4153.4	3053.5
35°	3283.5	3270.2	3253.9	3154.4	3050.5	3086.1	3534.4	4603.2	4867.4	4842.2	3387.5
37.5°	3605.7	3598.2	3584.9	3516.6	3396.4	3439.4	3880.3	5055.9	5514.6	5431.5	3859.5
40°	3944.1	3984.2	3941.1	3880.3	3770.4	3865.4	4287.0	5324.6	6059.4	5958.5	4220.2
42.5°	4402.8	4371.6	4390.9	4279.6	4220.2	4324.1	4695.2	5593.3	6482.5	6362.2	4603.2
45°	4891.2	4892.7	4840.7	4805.1	4650.7	4763.5	4946.1	5741.7	6819.4	6725.9	4892.7
47.5°	5204.4	5202.9	5259.3	5315.7	5156.9	5045.6	5116.8	5882.8	6993.1	6950.1	4998.1
50°	5155.4	5170.2	5243.0	5453.8	5536.9	5387.0	5277.1	5841.2	7071.8	7067.3	5088.6
52.5°	4484.4	4533.4	4655.2	4959.5	5378.1	5563.6	5444.9	5918.4	7110.4	7117.8	5223.7
55°	3414.2	3440.9	3672.5	4042.1	4505.2	5140.6	5378.1	5979.3	7140.1	7153.4	5387.0
56°	2961.4	2890.2	3224.2	3486.9	4040.6	4735.3	5208.8	5931.8	7122.3	7224.7	5468.6
57.5°	2235.5	2188.0	2458.2	2786.3	3319.2	4052.5	4683.4	5707.6	7002.0	7000.5	5351.3
60°	1359.7	1312.2	1520.0	1713.0	2011.4	2495.3	3164.8	4545.3	5919.9	6044.6	4333.0
62.5°	809.0	838.7	1043.5	1160.8	1257.3	1307.8	1637.3	2701.6	3950.0	4039.1	2688.3
65°	538.8	549.2	703.6	896.6	939.6	748.1	666.5	1094.0	1713.0	1658.1	1108.9
67.5°	332.5	356.3	472.0	673.9	746.7	546.3	316.2	408.2	472.0	472.0	320.6
70°	201.9	213.8	314.7	458.7	512.1	351.8	230.1	230.1	227.1	222.7	191.5
72.5°	96.5	103.9	160.3	236.0	240.5	185.6	178.1	194.5	190.0	188.5	158.8
75°	41.6	44.5	56.4	74.2	84.6	78.7	108.4	139.5	144.0	139.5	114.3
77.5°	13.4	14.8	20.8	26.7	28.2	34.1	46.0	57.9	66.8	62.3	56.4
80°	1.5	3.0	5.9	13.4	20.8	26.7	34.1	38.6	43.0	43.0	40.1
82.5°	1.5	1.5	5.9	11.9	19.3	25.2	32.7	37.1	43.0	44.5	41.6
85°	0.0	1.5	4.5	10.4	16.3	16.3	14.8	14.8	10.4	10.4	10.4
87.5°	0.0	0.0	1.5	1.5	1.5	3.0	3.0	3.0	3.0	3.0	3.0
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°	1340.4	1340.4	1340.4	1340.4	1340.4	1340.4	1340.4	1340.4	1340.4	1340.4	1340.4
2.5°	1352.3	1349.3	1309.3	1284.0	1270.7	1243.9	1227.6	1215.7	1206.8	1196.4	1197.9
5°	1370.1	1359.7	1292.9	1246.9	1192.0	1162.3	1137.1	1116.3	1102.9	1100.0	1094.0
7.5°	1420.6	1365.7	1264.7	1181.6	1111.8	1082.1	1059.9	1046.5	1052.5	1039.1	1049.5
10°	1459.2	1377.5	1230.6	1110.3	1040.6	1018.3	1006.4	1016.8	1031.7	1025.7	1018.3
12.5°	1506.7	1389.4	1175.7	1042.1	976.8	960.4	981.2	1000.5	1030.2	1042.1	1027.2
15°	1560.1	1402.8	1105.9	963.4	921.8	935.2	970.8	1005.0	1034.6	1049.5	1058.4
17.5°	1625.4	1398.3	1037.6	901.0	869.9	908.5	951.5	982.7	1027.2	1049.5	1043.5
20°	1686.3	1383.5	961.9	838.7	840.2	875.8	911.4	961.9	985.7	1015.3	1005.0
22.5°	1744.2	1356.8	883.2	795.7	795.7	850.6	868.4	901.0	921.8	936.7	935.2
25°	1825.8	1306.3	817.9	754.1	771.9	807.5	822.4	832.8	823.9	835.7	837.2
27.5°	1883.7	1254.3	764.5	717.0	749.6	776.4	771.9	766.0	745.2	728.9	739.2
30°	1946.1	1193.5	718.5	691.7	709.6	733.3	715.5	697.7	665.0	638.3	639.8
32.5°	2035.1	1165.3	678.4	662.1	685.8	688.8	669.5	642.8	610.1	584.9	583.4
35°	2201.4	1147.5	644.2	642.8	647.2	648.7	629.4	596.7	583.4	562.6	570.0
37.5°	2367.7	1138.6	620.5	614.6	613.1	614.6	592.3	561.1	586.3	584.9	587.8
40°	2579.9	1178.6	586.3	578.9	580.4	580.4	552.2	543.3	587.8	592.3	593.8
42.5°	2795.2	1229.1	564.1	540.3	546.3	546.3	531.4	521.0	552.2	522.5	518.1
45°	2982.2	1303.3	540.3	501.7	516.6	524.0	519.5	501.7	482.4	432.0	432.0
47.5°	3043.1	1368.6	512.1	464.6	476.5	509.2	495.8	458.7	424.5	383.0	380.0
50°	3149.9	1439.9	489.9	421.6	446.8	486.9	473.5	436.4	397.8	368.1	369.6
52.5°	3259.8	1521.5	448.3	371.1	402.3	469.1	469.1	427.5	368.1	347.4	344.4
55°	3424.6	1518.6	374.1	304.3	359.2	442.4	449.8	383.0	329.5	313.2	313.2
56°	3448.3	1450.3	337.0	285.0	339.9	434.9	436.4	371.1	314.7	296.9	296.9
57.5°	3270.2	1309.3	295.4	261.3	316.2	421.6	423.1	360.7	302.8	277.6	274.6
60°	2516.1	886.2	246.4	233.1	286.5	380.0	387.4	328.1	265.7	246.4	244.9
62.5°	1420.6	491.3	216.7	210.8	246.4	323.6	345.9	286.5	225.6	215.2	218.2
65°	648.7	270.2	182.6	170.7	198.9	249.4	279.1	236.0	185.6	173.7	173.7
67.5°	237.5	184.1	155.9	135.1	139.5	161.8	181.1	152.9	123.2	105.4	109.8
70°	169.2	154.4	136.6	117.3	108.4	105.4	103.9	86.1	60.9	47.5	50.5
72.5°	136.6	127.7	114.3	99.5	84.6	71.3	60.9	44.5	28.2	19.3	17.8
75°	98.0	93.5	83.1	71.3	59.4	50.5	41.6	28.2	14.8	7.4	7.4
77.5°	50.5	50.5	49.0	44.5	37.1	29.7	23.8	16.3	8.9	3.0	3.0
80°	38.6	41.6	43.0	38.6	34.1	26.7	19.3	11.9	5.9	1.5	1.5
82.5°	37.1	43.0	46.0	40.1	34.1	25.2	19.3	11.9	5.9	1.5	1.5
85°	8.9	8.9	13.4	14.8	19.3	20.8	16.3	10.4	4.5	1.5	1.5
87.5°	3.0	3.0	3.0	3.0	3.0	3.0	1.5	1.5	1.5	1.5	0.0
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)