

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: P268996

Luminaire Tested: **GLEON-AF-01-LED-E1-SL3-7027-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P268996
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24288)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-01-LED-E1-SL3-7027-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 2700K, 800mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE III SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4375.5 lumens
Efficiency: N/A
Efficacy: 99.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium - Non-Cutoff
BUG Rating: B1 - U0 - G1

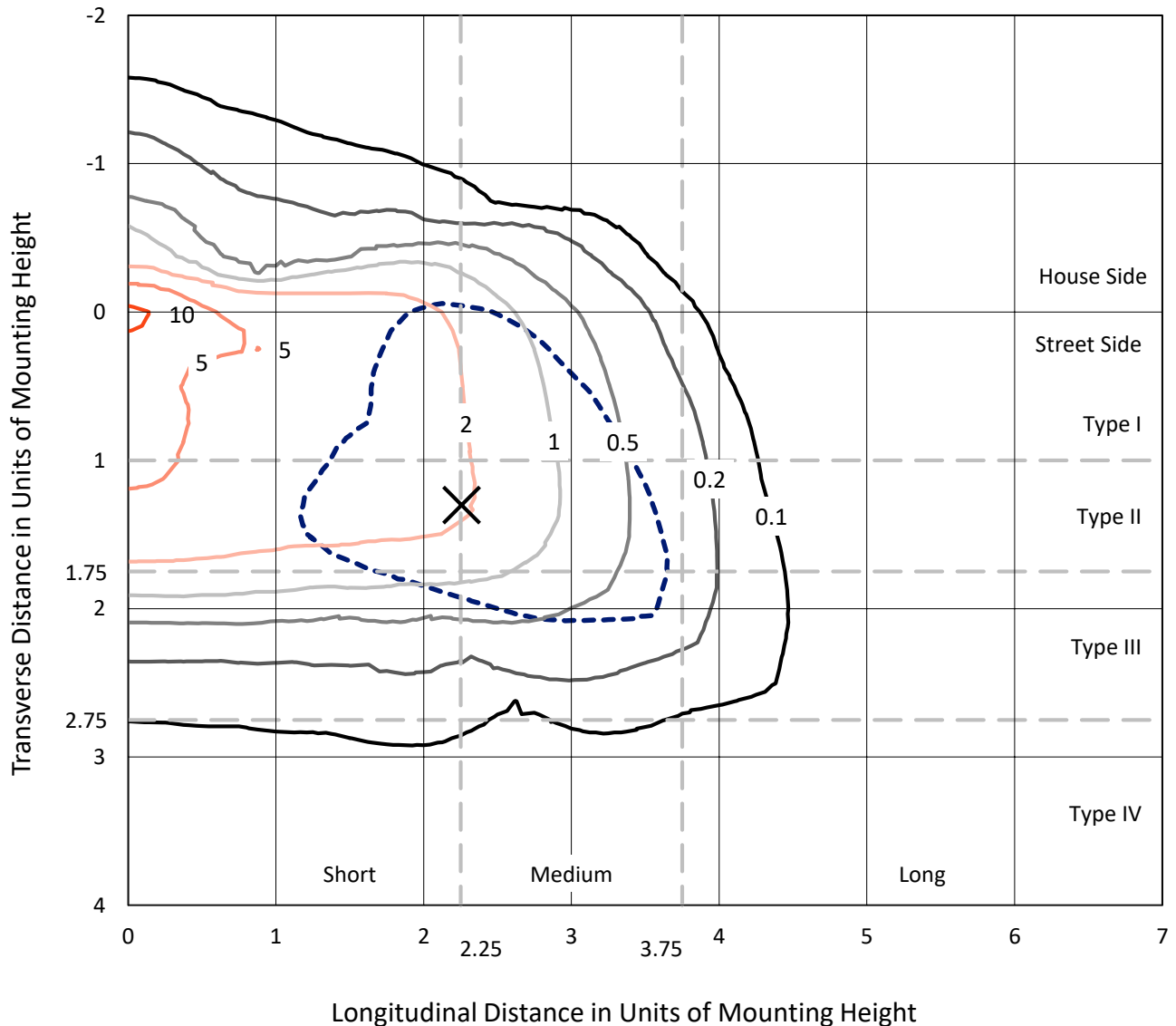
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

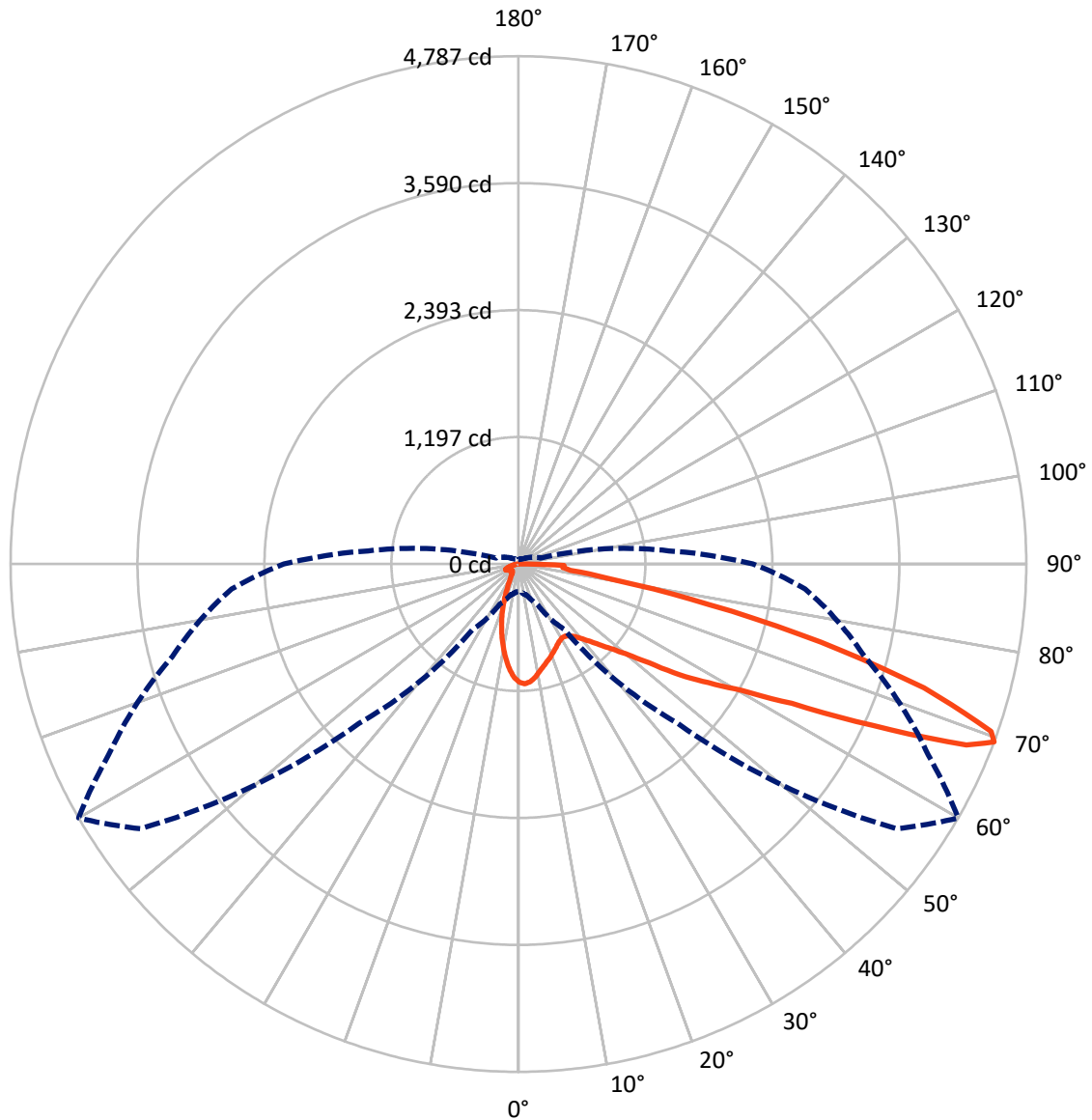
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 11.1 fc
 Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 60-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	622.5	0.0	622.5
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	3753.0	0.0	3753.0
	% Fixture	85.8	0.0	85.8
Total	Lumens	4375.5	0.0	4375.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.3	2.2
10°-20°	200.9	4.6
20°-30°	255.9	5.8
30°-40°	351.8	8.0
40°-50°	570.9	13.0
50°-60°	915.5	20.9
60°-70°	1218.5	27.8
70°-80°	657.9	15.0
80°-90°	109.8	2.5
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°	4375.5	100.0
0°-180°	4375.5	100.0

Coefficient of Utilization



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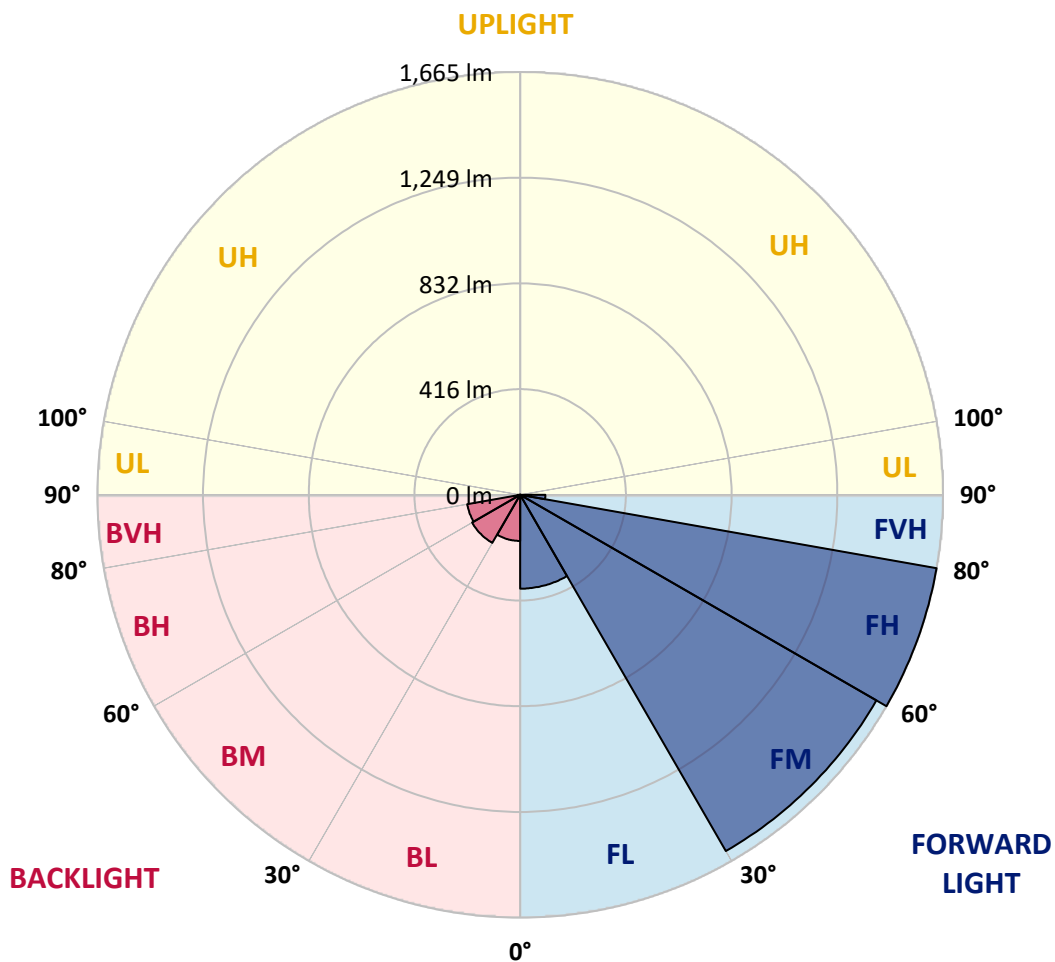
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	369.4	8.4			
FM (30°-60°)	1619.5	37.0			
FH (60°-80°)	1664.8	38.0			G1/1800
FVH (80°-90°)	99.2	2.3			G1/100
BL (0°-30°)	181.6	4.2	B1/500		
BM (30°-60°)	218.7	5.0	B0/220		
BH (60°-80°)	211.6	4.8	B1/500		G1/500
BVH (80°-90°)	10.6	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	1114.9	1114.9	1114.9	1114.9	1114.9	1114.9	1114.9	1114.9	1114.9	1114.9	1114.9
2.5°	1137.8	1140.3	1139.2	1138.6	1140.5	1137.6	1131.4	1129.4	1126.6	1119.6	1107.7
5°	1095.0	1102.7	1102.2	1108.0	1117.5	1119.9	1117.2	1117.8	1112.2	1103.5	1083.8
7.5°	1021.4	1024.4	1026.1	1038.6	1056.0	1069.9	1081.7	1085.5	1082.9	1075.6	1050.3
10°	945.1	947.7	951.8	966.3	988.3	1007.5	1029.9	1042.8	1048.3	1047.1	1018.8
12.5°	879.9	882.5	887.7	904.2	930.5	954.1	986.6	1002.7	1015.9	1023.6	993.2
15°	821.3	826.8	831.9	851.0	880.2	911.4	948.3	968.5	988.8	1006.3	970.6
17.5°	775.6	781.2	784.1	801.5	832.8	870.7	913.9	937.8	963.2	991.9	948.3
20°	749.2	751.8	750.5	760.2	788.4	828.7	879.9	907.6	938.2	978.4	925.8
22.5°	741.9	742.1	737.5	736.4	754.5	788.6	843.6	877.1	914.7	969.5	906.5
25°	759.8	759.2	746.5	736.3	738.0	757.9	808.5	847.6	895.2	967.7	891.7
27.5°	799.9	801.6	783.0	763.4	744.2	743.5	781.9	823.0	879.0	976.3	885.4
30°	855.7	859.0	838.8	814.1	778.0	748.2	771.5	808.5	869.1	994.2	884.3
32.5°	917.1	920.5	905.2	879.4	831.9	776.9	778.7	809.7	868.8	1019.3	891.5
35°	982.3	986.2	978.4	956.4	903.8	830.0	806.0	830.3	882.5	1057.8	910.7
37.5°	1055.2	1061.3	1063.4	1042.5	986.2	900.0	851.1	869.1	913.4	1111.4	946.0
40°	1160.4	1168.7	1167.9	1138.0	1080.8	994.5	920.8	925.3	961.9	1182.8	1002.5
42.5°	1361.7	1363.3	1310.6	1245.3	1184.7	1093.7	1002.7	998.8	1028.6	1273.3	1085.5
45°	1617.6	1610.7	1493.5	1367.3	1293.3	1208.0	1109.4	1090.8	1113.4	1383.6	1189.5
47.5°	1829.9	1813.9	1665.9	1491.7	1408.4	1331.9	1234.8	1202.2	1214.7	1508.8	1323.9
50°	1903.7	1891.7	1769.1	1595.4	1517.1	1483.3	1389.0	1343.0	1346.4	1657.9	1481.5
52.5°	1887.9	1886.3	1804.3	1663.7	1619.0	1642.3	1607.5	1545.3	1512.2	1823.6	1651.4
55°	1850.5	1854.0	1824.5	1743.2	1735.4	1795.7	1893.2	1847.0	1744.6	1990.9	1827.1
57.5°	1720.4	1729.7	1794.9	1843.1	1922.9	2012.7	2123.1	2109.9	1994.5	2171.6	2035.7
60°	1386.2	1407.6	1582.3	1823.6	2116.0	2396.1	2445.6	2415.3	2252.5	2395.8	2311.7
62.5°	971.2	993.6	1201.2	1579.0	2084.2	2829.5	3022.3	2890.9	2622.8	2726.1	2668.7
65°	519.9	530.7	689.3	1095.6	1759.6	2919.0	3865.0	3665.3	3209.0	3133.4	2974.1
67.5°	286.7	292.8	353.5	553.1	1127.0	2570.4	4401.9	4552.7	3941.9	3404.5	2918.5
69°	259.3	264.8	304.5	418.9	754.1	2125.2	4349.5	4786.7	4263.1	3377.7	2713.1
70°	253.6	258.7	294.5	386.1	610.4	1751.8	4173.7	4726.9	4339.6	3281.6	2533.8
72.5°	228.3	233.7	268.5	346.8	521.6	873.3	3306.1	3996.6	3940.0	2845.3	1922.0
75°	212.9	217.8	276.7	339.6	499.5	552.6	2179.6	2945.5	2896.2	1990.4	1036.4
77.5°	91.1	90.6	128.3	287.5	506.9	535.2	1171.1	1840.1	1678.8	850.8	297.6
80°	60.8	59.7	60.8	84.5	464.9	538.2	613.6	934.0	705.4	216.9	146.8
82.5°	52.5	51.6	53.4	51.6	163.4	614.3	521.6	496.8	335.4	123.2	72.8
85°	35.4	33.9	46.1	46.4	77.2	545.7	587.6	419.6	271.4	73.1	35.9
87.5°	16.9	16.4	26.8	32.8	45.3	221.7	659.3	429.8	273.8	37.4	17.1
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°	1114.9	1114.9	1114.9	1114.9	1114.9	1114.9	1114.9	1114.9	1114.9	1114.9	1114.9
2.5°	1104.1	1095.6	1086.9	1076.9	1066.3	1054.5	1048.5	1042.7	1041.1	1039.5	1033.6
5°	1073.7	1061.4	1040.2	1017.2	992.5	968.6	950.4	939.1	930.5	926.0	918.2
7.5°	1034.4	1016.4	979.4	939.3	898.0	860.4	827.9	807.3	788.0	778.9	768.5
10°	996.9	970.2	912.7	853.5	794.3	737.5	684.0	646.2	612.6	593.7	580.3
12.5°	964.9	928.0	848.4	768.3	687.2	606.1	526.0	463.0	410.4	382.8	368.7
15°	933.6	889.2	787.4	685.6	581.5	471.3	366.1	294.6	251.0	233.7	227.8
17.5°	905.2	848.4	726.0	602.4	472.4	339.2	246.0	206.7	190.0	184.3	182.4
20°	874.6	807.1	662.4	515.3	358.7	237.2	192.1	174.8	168.1	166.4	165.5
22.5°	845.0	766.7	601.5	422.2	257.6	183.1	165.1	157.9	156.8	158.3	158.3
25°	819.9	730.2	535.7	324.6	189.2	154.1	147.7	146.1	150.0	155.5	156.7
27.5°	801.1	700.5	465.9	239.7	150.6	133.9	133.8	136.5	146.5	157.1	159.2
30°	788.2	672.1	391.0	173.0	126.4	117.9	121.4	127.2	141.8	156.8	160.8
32.5°	781.6	651.2	313.0	133.8	108.2	103.6	109.2	116.5	130.9	144.7	150.0
35°	786.6	635.8	239.5	111.6	95.5	91.9	97.8	104.8	113.2	119.3	123.2
37.5°	805.7	629.6	180.6	100.0	86.9	83.5	88.2	92.2	95.5	97.2	99.2
40°	846.7	636.2	144.7	94.1	82.0	77.8	79.7	81.1	83.3	85.0	85.8
42.5°	907.2	655.9	129.7	91.7	79.5	73.3	72.9	73.5	76.3	79.5	80.0
45°	991.6	690.4	128.6	93.2	78.2	69.8	67.8	68.7	72.9	77.8	78.6
47.5°	1099.7	743.3	137.3	97.6	79.3	67.8	64.7	65.8	71.1	77.6	78.6
50°	1230.6	817.1	151.4	104.3	83.9	68.4	63.6	64.3	69.8	77.0	78.1
52.5°	1385.0	921.8	166.7	110.5	88.8	71.1	64.5	63.1	68.0	74.4	75.6
55°	1556.9	1056.0	182.6	116.2	91.3	74.4	66.1	61.4	64.9	70.2	71.2
57.5°	1767.9	1243.7	210.2	121.7	93.1	76.7	67.8	59.6	60.8	64.7	65.5
60°	2053.3	1509.2	258.5	130.9	96.7	77.6	67.6	58.1	56.9	59.0	59.4
62.5°	2395.6	1797.4	298.9	142.2	103.1	78.2	66.4	57.0	53.4	53.4	53.9
65°	2598.6	1874.6	276.5	151.8	108.4	77.6	64.9	56.1	50.9	48.6	48.8
67.5°	2426.4	1648.6	237.0	153.7	108.2	74.6	62.5	54.1	48.4	44.8	44.6
69°	2210.5	1422.5	219.1	148.6	103.1	70.7	59.6	52.0	46.5	42.7	42.5
70°	2036.6	1284.4	207.6	143.1	97.6	68.0	57.3	50.0	45.0	41.4	41.1
72.5°	1480.8	841.6	177.3	123.0	80.5	57.0	49.4	43.9	40.2	38.1	37.5
75°	739.9	401.4	144.0	99.7	61.8	45.6	40.6	36.8	34.9	34.5	34.2
77.5°	243.1	184.0	102.9	74.4	45.9	35.8	32.8	30.1	29.6	30.8	30.5
80°	133.6	107.0	65.2	49.2	31.4	26.2	25.8	24.3	25.0	27.0	26.6
82.5°	68.0	55.5	40.3	29.6	21.1	18.9	20.5	19.7	20.5	22.4	22.2
85°	33.5	30.5	25.6	18.0	14.0	12.0	14.6	15.2	15.6	17.1	17.1
87.5°	19.5	18.0	13.6	8.4	6.9	6.4	8.4	8.3	9.7	10.6	10.4
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)