

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: P191919

Luminaire Tested: **GLEON-AF-01-LED-E1-SL3-7050-800-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191919
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24289)
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-SL3-7050-800-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 5000K, 800mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE III SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4302 lumens
Efficiency: N/A
Efficacy: 97.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short - 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

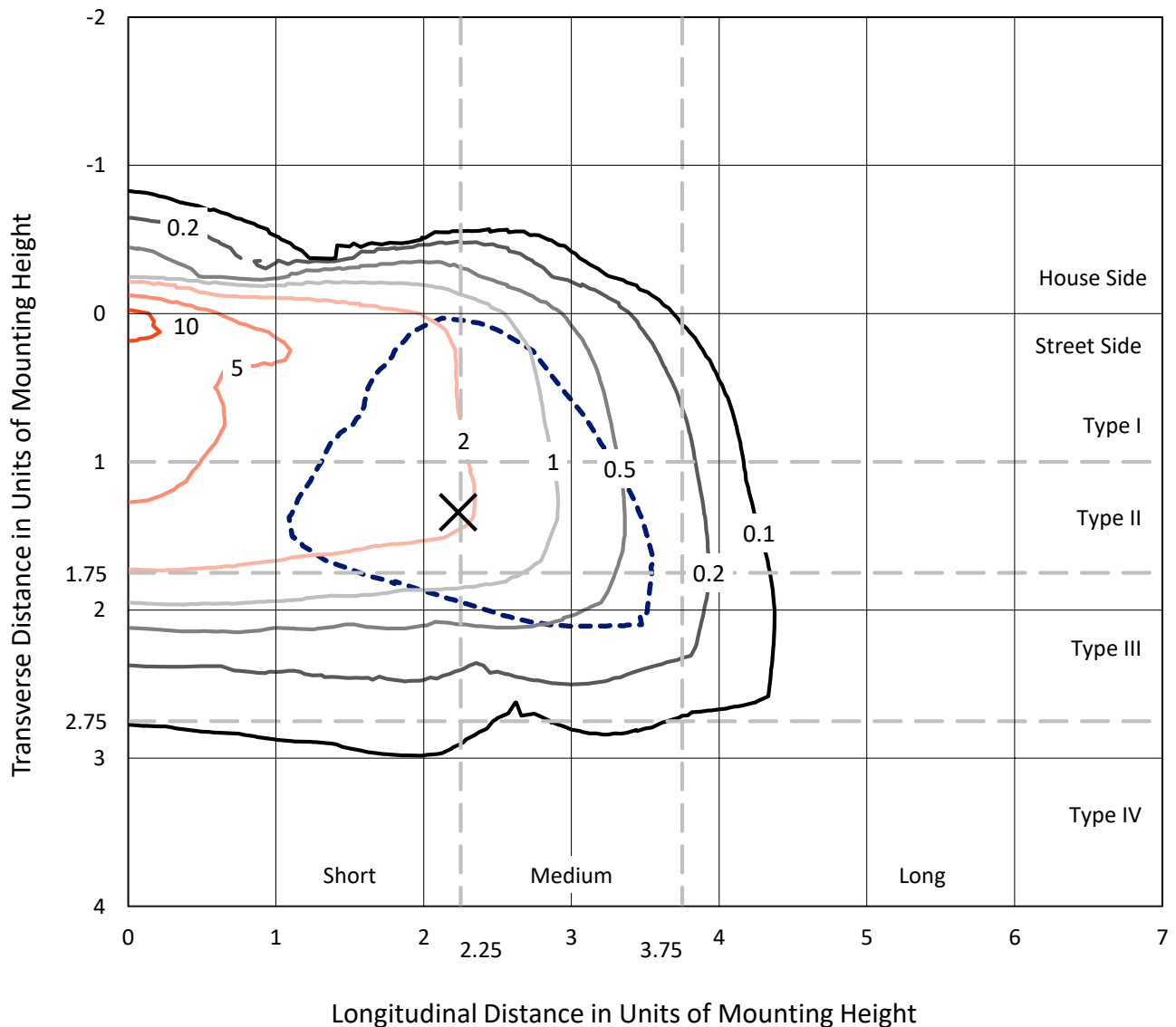


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

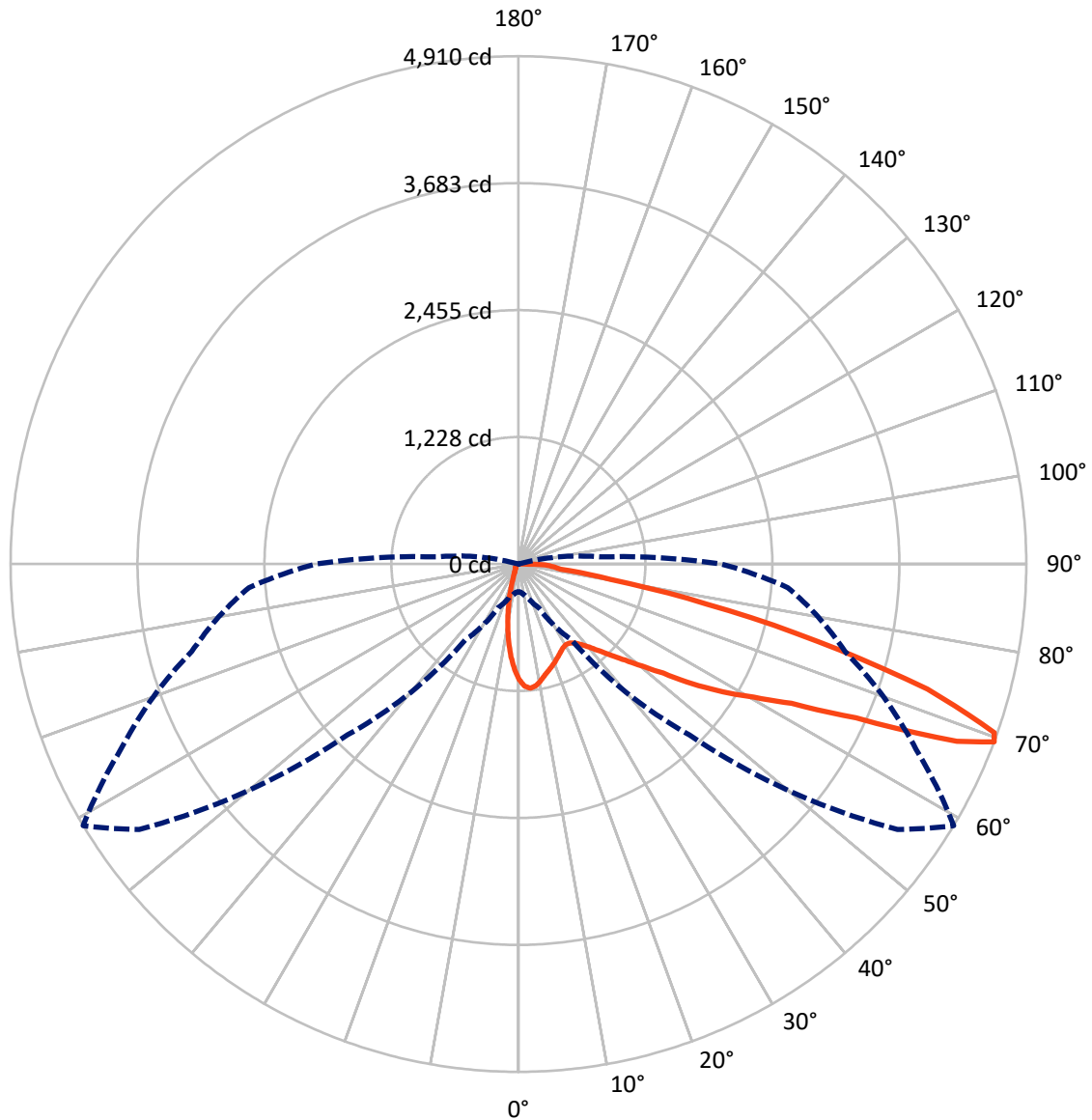


Based on 10 foot mounting height. Maximum calculated value = 11.3 fc
 Type III - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	350.3	0.0	350.3
	% Fixture	8.1	0.0	8.1
Street Side	Lumens	3951.7	0.0	3951.7
	% Fixture	91.9	0.0	91.9
Total	Lumens	4302.0	0.0	4302.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.9	2.1
10°-20°	187.8	4.4
20°-30°	252.7	5.9
30°-40°	366.9	8.5
40°-50°	611.0	14.2
50°-60°	953.1	22.2
60°-70°	1179.4	27.4
70°-80°	597.7	13.9
80°-90°	62.5	1.5
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°	4302.0	100.0
0°-180°	4302.0	100.0



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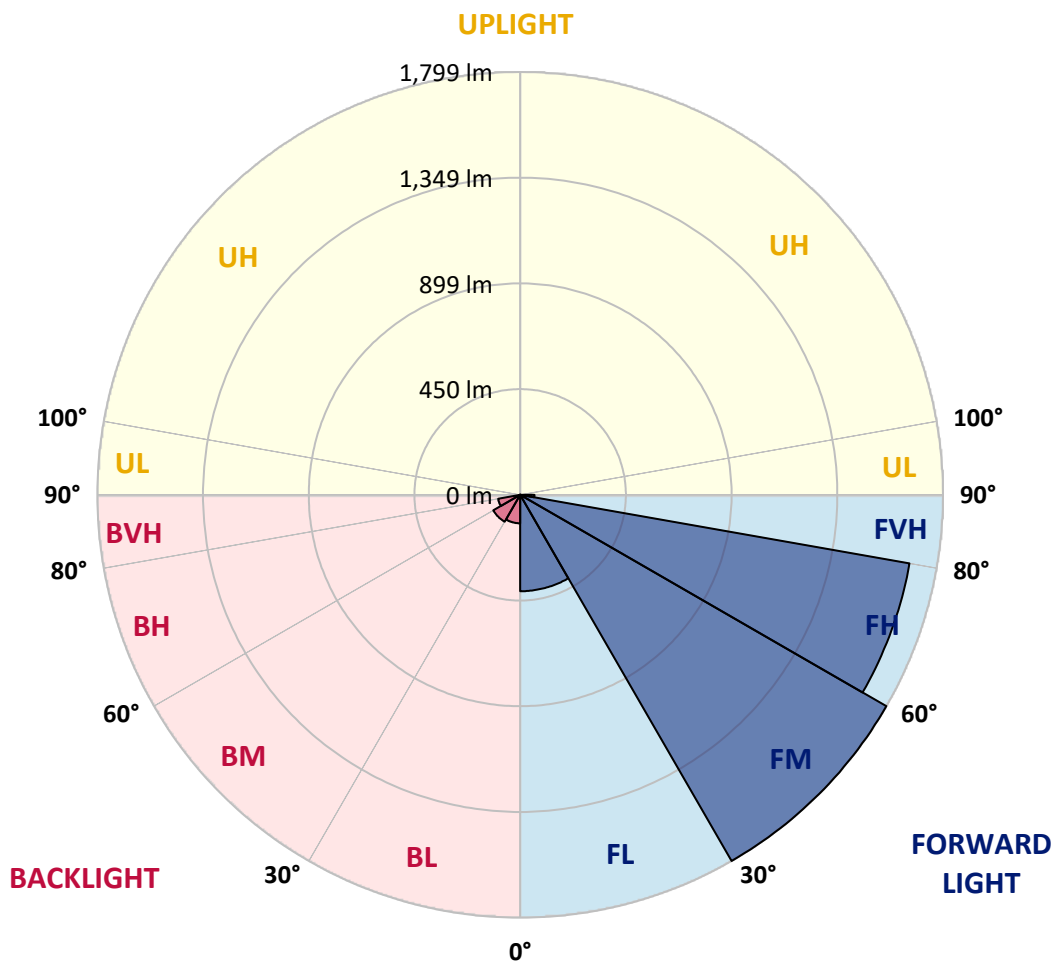
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	410.2	9.5			
FM	(30°-60°)	1799.0	41.8			
FH	(60°-80°)	1681.9	39.1			G1/1800
FVH	(80°-90°)	60.6	1.4			G1/100
BL	(0°-30°)	121.3	2.8	B1/500		
BM	(30°-60°)	132.0	3.1	B0/220		
BH	(60°-80°)	95.1	2.2	B0/110		G0/110
BVH	(80°-90°)	1.9	0.0			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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	1119.8	1119.8	1119.8	1119.8	1119.8	1119.8	1119.8	1119.8	1119.8	1119.8	1119.8
2.5°	1227.3	1226.8	1221.4	1219.0	1214.6	1205.4	1191.0	1183.5	1171.3	1150.2	1121.7
5°	1216.1	1221.9	1225.1	1225.3	1228.5	1225.1	1212.2	1205.9	1189.1	1155.0	1103.9
7.5°	1140.2	1142.4	1151.4	1159.2	1174.2	1188.6	1193.2	1190.5	1180.6	1144.1	1076.2
10°	1058.9	1061.1	1071.8	1082.0	1102.5	1124.6	1148.0	1152.8	1157.0	1128.5	1049.4
12.5°	988.9	991.1	1002.0	1015.4	1039.2	1066.5	1102.7	1110.8	1129.0	1113.7	1028.0
15°	928.5	929.5	940.2	956.8	985.2	1020.3	1061.4	1074.3	1102.2	1103.2	1009.3
17.5°	877.2	879.6	886.2	902.0	933.2	976.5	1024.4	1042.9	1075.7	1094.5	991.1
20°	845.8	848.3	848.0	856.8	884.8	931.0	987.4	1009.6	1049.4	1085.5	974.8
22.5°	839.8	839.8	833.4	832.2	848.8	887.4	949.0	976.0	1025.9	1081.6	963.3
25°	861.4	860.4	844.6	831.7	832.5	855.6	911.8	943.9	1005.9	1084.2	957.2
27.5°	907.1	905.9	886.0	861.4	841.7	841.5	883.5	918.1	990.1	1096.9	959.7
30°	970.4	969.9	948.2	917.4	881.6	848.8	873.8	905.2	979.9	1119.8	965.3
32.5°	1039.5	1038.7	1022.4	989.8	944.6	881.6	884.0	910.3	982.8	1150.2	978.9
35°	1112.7	1111.5	1104.4	1076.0	1026.1	942.2	917.6	938.0	1001.3	1195.6	1005.7
37.5°	1192.0	1193.2	1198.3	1171.1	1118.8	1027.1	973.8	987.7	1038.5	1257.4	1049.2
40°	1309.0	1308.8	1310.5	1274.7	1224.4	1130.9	1052.4	1056.7	1100.8	1339.4	1115.4
42.5°	1521.4	1506.5	1461.5	1388.6	1338.0	1249.7	1151.4	1146.8	1176.9	1440.9	1208.1
45°	1806.7	1775.1	1658.3	1518.5	1453.8	1383.5	1273.3	1258.4	1277.6	1562.7	1322.4
47.5°	2052.2	2019.3	1854.2	1653.7	1576.6	1510.4	1416.0	1389.3	1395.6	1699.2	1467.4
50°	2135.6	2119.6	1975.3	1771.5	1695.6	1670.3	1581.7	1549.1	1540.1	1857.1	1635.5
52.5°	2106.7	2105.5	2009.4	1847.8	1804.5	1835.7	1790.2	1752.5	1719.4	2023.5	1806.5
55°	2060.2	2066.3	2023.2	1914.7	1913.3	1986.7	2075.3	2043.9	1948.1	2204.2	1953.9
57.5°	1932.0	1958.0	2015.5	2041.2	2101.1	2176.3	2312.7	2331.2	2217.9	2342.6	2076.3
60°	1567.6	1624.8	1812.6	2059.5	2343.1	2530.4	2599.3	2615.1	2439.2	2457.7	2241.4
62.5°	1112.7	1171.1	1409.2	1826.9	2346.8	2995.8	3026.2	2964.2	2683.0	2628.2	2526.3
65°	590.6	635.7	830.3	1318.7	2034.7	3103.8	3772.8	3587.9	3113.1	2963.7	2894.4
67.5°	302.1	315.8	393.1	645.4	1398.8	2756.9	4442.0	4572.2	3854.3	3296.5	2876.6
69°	267.3	275.4	326.7	466.6	895.7	2335.1	4474.6	4910.1	4242.3	3268.8	2614.1
70°	258.8	265.9	312.6	422.3	700.1	1958.3	4349.8	4880.4	4341.6	3163.2	2418.1
72.5°	219.7	225.8	278.3	373.2	569.0	972.1	3533.4	4135.5	3895.9	2635.1	1750.3
75°	146.9	166.9	267.1	349.8	529.3	552.2	2329.5	2988.5	2776.1	1777.3	911.8
77.5°	35.3	37.9	75.4	278.3	484.1	486.0	1198.1	1857.8	1515.3	633.5	215.5
80°	19.0	18.2	21.2	55.2	450.8	456.1	539.3	901.8	541.0	105.1	71.0
82.5°	13.4	12.6	13.6	23.1	141.8	415.5	390.2	408.2	224.3	40.4	31.9
85°	4.9	4.6	7.5	20.9	44.5	238.9	400.9	336.7	181.7	18.5	23.4
87.5°	1.7	1.5	2.9	11.4	13.6	101.7	247.4	254.5	71.5	11.2	10.9
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°	1119.8	1119.8	1119.8	1119.8	1119.8	1119.8	1119.8	1119.8	1119.8	1119.8	1119.8
2.5°	1109.8	1094.7	1067.0	1038.5	1012.2	980.6	964.8	949.2	942.7	940.2	928.8
5°	1077.7	1052.1	993.3	934.1	879.6	821.8	783.6	752.9	734.9	726.1	712.3
7.5°	1036.6	994.7	905.4	814.2	729.3	645.6	583.6	535.9	503.1	487.3	472.9
10°	996.7	941.0	814.0	689.7	574.3	463.4	377.8	315.8	276.1	257.9	246.2
12.5°	960.9	888.6	725.7	568.3	423.5	293.6	206.5	157.1	132.6	124.1	119.9
15°	929.0	840.5	642.2	453.0	286.8	167.9	112.9	96.1	92.2	92.2	91.7
17.5°	898.9	793.3	561.7	344.7	180.0	102.7	85.9	83.7	83.7	84.7	84.7
20°	869.9	748.3	483.9	247.4	113.4	81.5	77.6	77.1	77.6	78.8	78.8
22.5°	845.1	707.4	411.1	169.8	84.2	73.5	71.5	70.8	71.0	71.8	72.2
25°	826.6	672.9	342.5	115.1	72.5	66.9	64.7	63.5	62.5	62.5	63.0
27.5°	814.9	643.7	276.1	83.7	65.2	60.8	57.4	55.5	53.3	52.1	52.5
30°	806.4	615.9	213.8	68.4	58.4	54.0	49.6	46.5	43.3	41.8	42.3
32.5°	803.3	593.6	159.8	60.3	52.3	47.4	42.1	37.9	34.5	33.3	33.6
35°	811.8	575.8	117.0	54.5	47.4	41.4	35.3	30.7	28.0	27.2	27.5
37.5°	834.2	566.3	87.6	49.6	43.1	36.2	29.4	25.1	23.4	23.4	23.6
40°	876.5	566.1	70.3	46.2	39.2	31.4	24.3	21.2	20.2	20.7	20.9
42.5°	938.3	579.0	61.3	43.1	35.8	26.8	20.2	18.0	17.8	18.2	18.5
45°	1022.7	602.6	56.4	40.4	32.1	22.4	17.0	15.6	15.6	16.3	16.5
47.5°	1126.1	637.1	52.3	37.7	28.5	18.7	14.6	13.6	13.9	14.6	14.8
50°	1250.6	680.7	48.2	34.8	25.8	15.6	12.6	11.9	12.2	13.1	13.4
52.5°	1392.5	739.3	44.8	32.1	22.4	12.9	10.7	10.2	10.7	11.7	11.9
55°	1514.1	791.8	40.6	29.9	18.0	10.7	8.8	8.8	9.2	10.5	10.7
57.5°	1631.1	846.8	37.0	25.8	14.1	8.5	7.3	7.5	8.3	9.5	9.7
60°	1802.8	940.0	32.6	21.7	10.7	6.8	6.1	6.3	7.3	8.5	8.8
62.5°	2094.5	1081.8	28.2	18.0	8.3	5.4	4.9	5.4	6.6	8.0	8.3
65°	2357.7	1139.5	23.1	15.1	6.3	4.1	4.1	4.9	6.3	7.8	8.0
67.5°	2211.0	959.2	18.0	11.9	4.9	3.2	3.4	4.6	6.1	7.8	8.0
69°	1955.4	784.3	15.3	9.5	4.1	2.9	3.2	4.6	6.1	7.5	7.8
70°	1756.1	662.2	13.6	8.0	3.6	2.9	3.2	4.4	6.1	7.5	7.8
72.5°	1176.2	357.6	10.9	5.8	3.4	2.7	2.7	4.4	5.8	7.3	7.5
75°	505.5	98.8	8.8	4.1	2.9	2.4	2.4	4.1	5.6	7.1	7.5
77.5°	92.4	25.1	7.1	3.6	2.9	2.4	2.2	3.9	5.4	6.8	7.1
80°	36.7	12.4	5.6	3.2	2.7	2.2	1.9	3.6	5.1	6.6	6.8
82.5°	22.1	7.1	4.6	2.9	2.7	1.9	1.7	3.2	4.9	6.3	6.6
85°	18.0	4.9	3.6	2.9	2.4	1.9	1.5	2.9	4.4	6.1	6.3
87.5°	8.8	3.4	3.4	2.7	2.4	1.9	1.5	2.7	4.1	5.8	6.1
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)