

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: P191859

Luminaire Tested: **GLEON-AF-01-LED-E1-SL2-7050-1200-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191859
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24287)
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-SL2-7050-1200-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 5000K, 1200mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5663 lumens
Efficiency: N/A
Efficacy: 84.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G2

Input Watts (W): 67
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

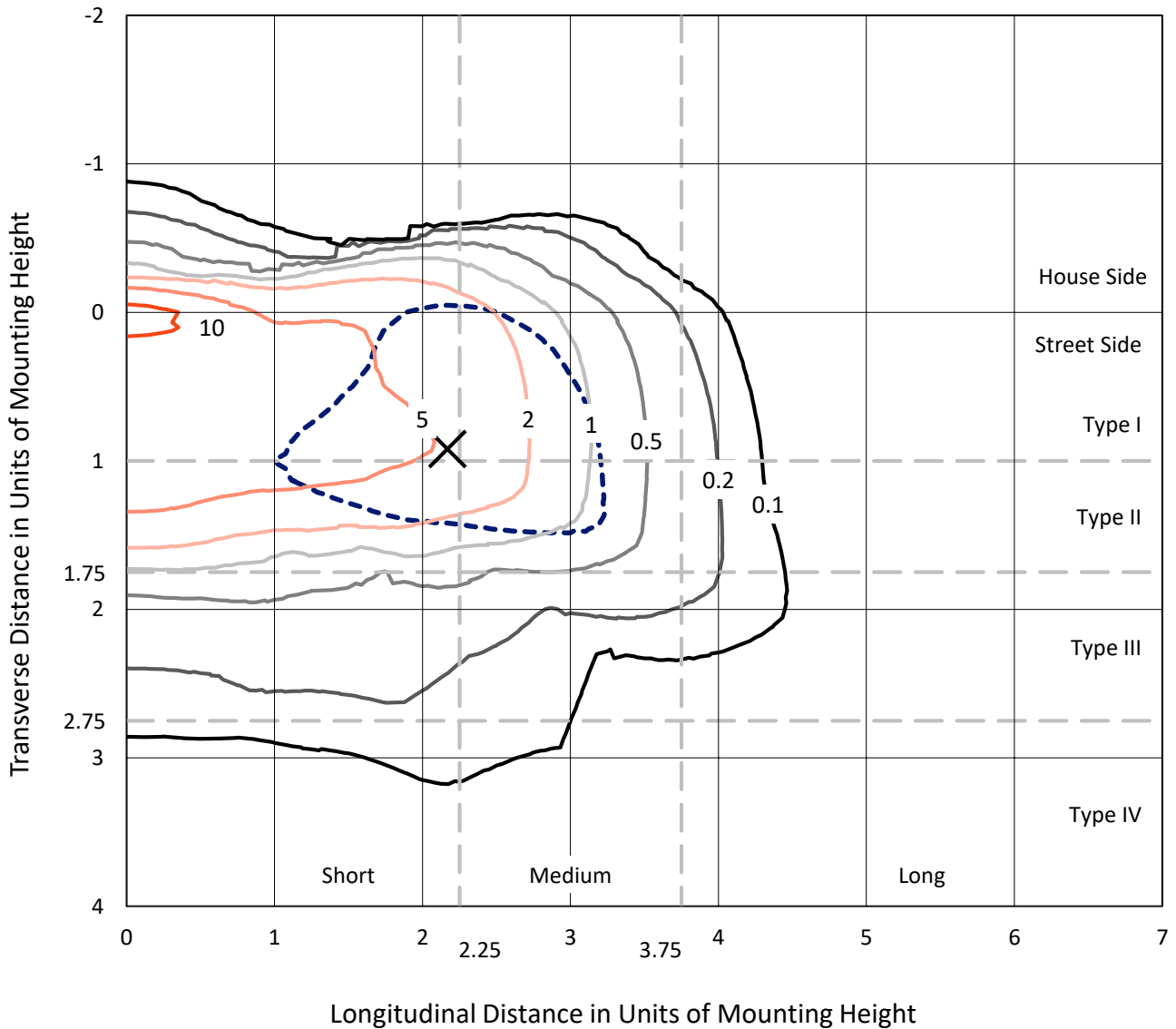


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

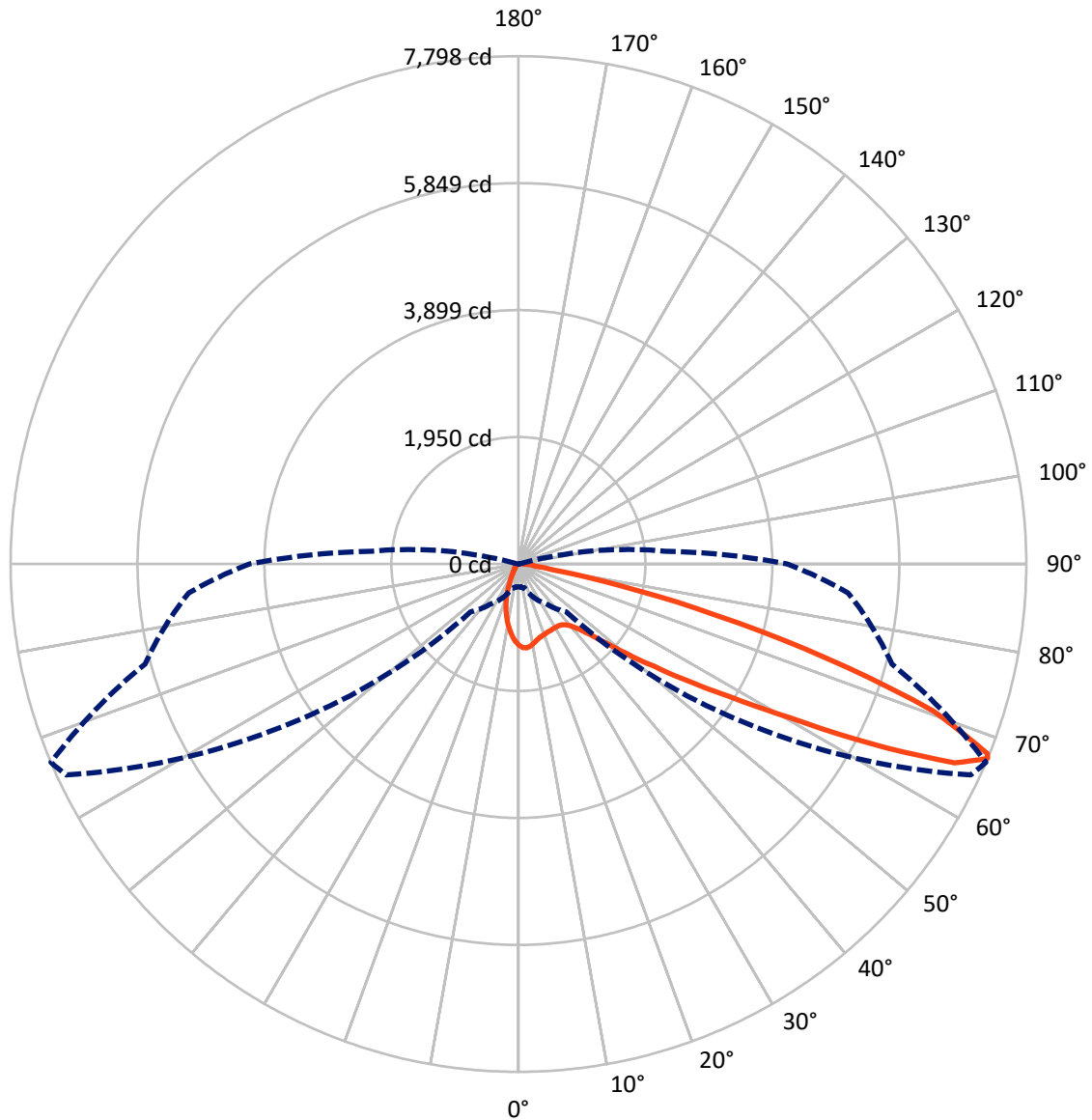


Based on 10 foot mounting height. Maximum calculated value = 12.5 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	588.0	0.0	588.0
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	5075.0	0.0	5075.0
	% Fixture	89.6	0.0	89.6
Total	Lumens	5663.0	0.0	5663.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.6	1.8
10°-20°	216.3	3.8
20°-30°	314.5	5.6
30°-40°	490.6	8.7
40°-50°	869.0	15.3
50°-60°	1375.2	24.3
60°-70°	1575.0	27.8
70°-80°	653.3	11.5
80°-90°	67.5	1.2
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°	5663.0	100.0
0°-180°	5663.0	100.0



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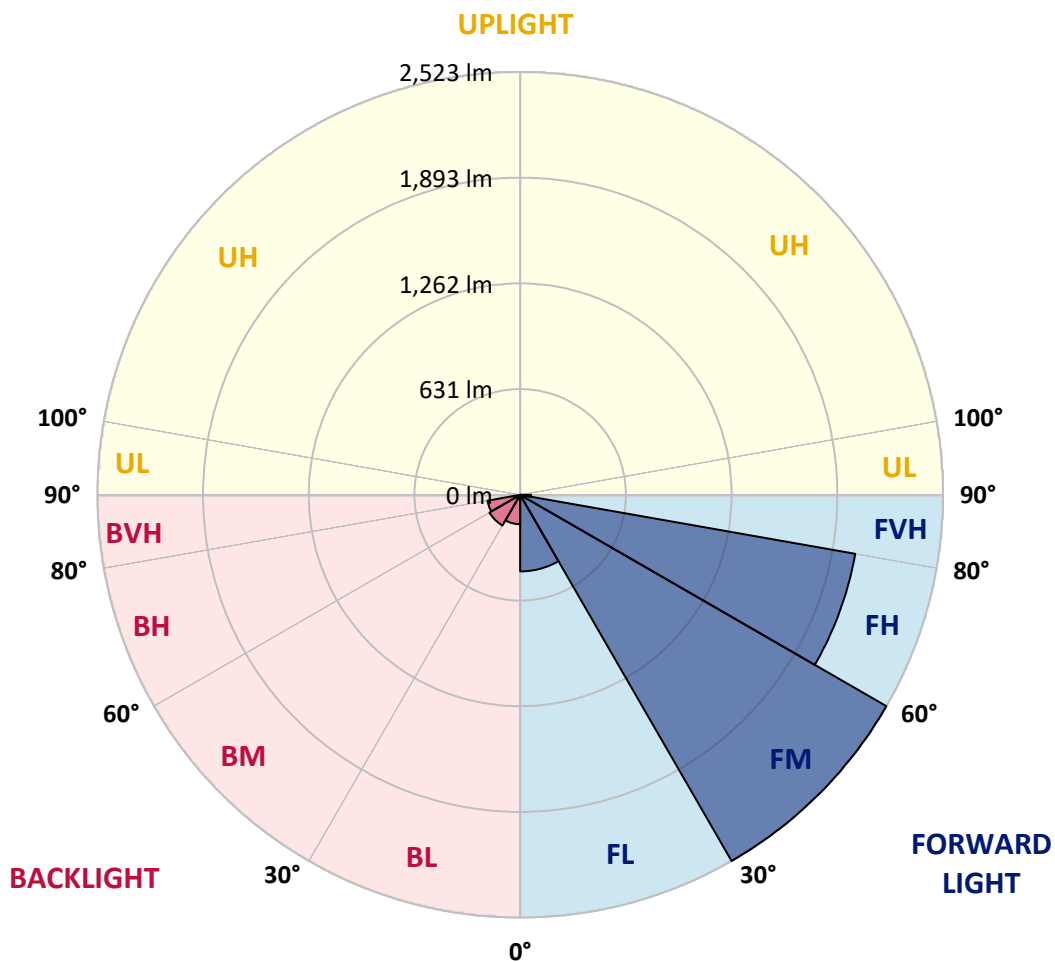
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	456.9	8.1			
FM (30°-60°)	2523.4	44.6			
FH (60°-80°)	2030.2	35.9			G2/5000
FVH (80°-90°)	64.4	1.1			G1/100
BL (0°-30°)	175.5	3.1	B1/500		
BM (30°-60°)	211.3	3.7	B0/220		
BH (60°-80°)	198.2	3.5	B1/500		G1/500
BVH (80°-90°)	3.0	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-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	1248.9	1248.9	1248.9	1248.9	1248.9	1248.9	1248.9	1248.9	1248.9	1248.9	1248.9
2.5°	1291.2	1293.8	1293.5	1295.5	1300.1	1300.4	1295.8	1286.9	1284.9	1273.3	1253.2
5°	1190.8	1198.4	1203.0	1221.8	1243.0	1268.4	1287.5	1294.5	1293.5	1285.2	1254.8
7.5°	1076.1	1083.7	1089.0	1111.2	1139.2	1182.8	1232.7	1273.7	1277.3	1286.2	1253.5
10°	999.8	1001.2	1008.4	1029.6	1059.0	1103.6	1163.0	1234.7	1245.6	1278.3	1250.2
12.5°	937.1	938.1	947.7	970.4	1001.8	1046.8	1109.2	1192.1	1208.9	1268.4	1249.6
15°	892.5	896.1	904.7	928.5	961.9	1006.5	1070.5	1160.7	1180.9	1264.8	1255.5
17.5°	877.6	881.6	884.2	901.4	931.8	975.4	1041.1	1140.2	1163.0	1266.7	1267.1
20°	893.2	896.1	890.2	894.5	913.3	952.3	1016.4	1122.7	1149.8	1269.0	1281.9
22.5°	951.0	952.3	936.1	917.3	914.0	935.4	996.9	1108.8	1137.9	1275.3	1299.4
25°	1050.1	1047.7	1021.3	980.7	942.4	932.5	985.3	1100.3	1132.0	1281.9	1317.6
27.5°	1169.6	1172.9	1136.6	1077.5	1004.5	952.3	983.7	1096.6	1129.3	1286.6	1333.5
30°	1315.0	1319.6	1278.0	1203.6	1098.9	1001.2	998.9	1096.0	1127.7	1283.6	1334.8
32.5°	1463.3	1468.9	1436.2	1359.6	1225.1	1083.1	1033.2	1103.2	1131.0	1273.3	1327.2
35°	1618.5	1626.4	1604.6	1538.9	1396.2	1201.3	1093.7	1125.4	1146.5	1272.4	1319.6
37.5°	1832.9	1840.2	1799.2	1729.5	1603.3	1359.9	1190.8	1167.0	1183.2	1288.2	1321.6
40°	2153.0	2152.0	2046.3	1939.6	1830.9	1561.4	1327.2	1242.3	1250.6	1336.1	1346.0
42.5°	2501.8	2500.1	2343.9	2181.7	2083.6	1809.4	1506.5	1372.4	1366.8	1424.3	1409.4
45°	2770.6	2770.3	2642.8	2460.1	2387.8	2094.2	1738.4	1553.4	1544.9	1567.6	1526.4
47.5°	2885.3	2887.2	2823.2	2694.7	2725.1	2479.3	2030.7	1815.7	1802.8	1793.6	1730.8
50°	2796.1	2800.0	2805.3	2780.2	2972.5	2996.9	2422.8	2185.3	2179.1	2137.8	2039.7
52.5°	2504.7	2524.9	2587.0	2666.6	3058.3	3493.7	3037.5	2644.5	2610.8	2566.8	2458.8
55°	2013.9	2036.0	2153.9	2347.2	2930.5	3820.0	3899.0	3236.4	3180.2	3049.1	2893.2
57.5°	1332.8	1367.2	1538.3	1784.0	2559.2	3872.5	4758.4	4057.9	3862.3	3503.3	3327.5
60°	734.3	767.3	952.9	1175.6	1848.4	3612.9	5336.5	5127.4	4781.9	4010.9	3855.0
62.5°	452.2	470.0	607.1	814.2	1108.5	2851.6	5456.1	6471.4	6071.4	4664.6	4492.2
65°	360.0	367.6	434.7	665.6	794.7	1696.1	5069.9	7496.0	7362.6	5456.1	5062.7
67°	349.5	352.4	384.2	571.4	749.1	1039.8	4247.5	7662.9	7798.3	5935.0	5080.5
67.5°	351.8	355.1	385.1	545.3	747.8	955.6	3964.0	7597.1	7768.2	5973.0	5001.5
70°	339.2	349.5	441.0	545.0	711.2	794.1	2373.9	6582.4	6760.4	5549.9	4243.8
72.5°	120.2	120.9	190.6	441.0	773.3	802.7	1192.1	4825.5	4957.3	4245.5	3059.7
75°	71.3	60.8	63.4	125.5	738.9	779.5	687.7	3083.4	3132.7	2432.7	1549.5
77.5°	49.2	42.9	44.3	55.5	281.4	768.6	546.3	1607.9	1555.4	853.2	330.0
80°	28.1	24.8	26.4	48.6	102.4	717.1	515.3	652.0	555.9	144.7	91.2
82.5°	14.9	12.6	15.2	40.0	71.3	446.9	516.3	315.1	249.7	48.9	62.1
85°	5.3	4.3	7.3	27.4	47.6	137.1	478.6	264.9	208.1	23.8	47.2
87.5°	1.0	1.0	3.0	11.2	19.2	41.9	283.1	157.2	105.4	14.2	32.4
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°	1248.9	1248.9	1248.9	1248.9	1248.9	1248.9	1248.9	1248.9	1248.9	1248.9	1248.9
2.5°	1244.9	1230.7	1211.6	1188.1	1160.4	1135.9	1117.8	1098.9	1095.0	1088.4	1087.4
5°	1236.7	1212.2	1164.7	1110.2	1052.0	999.5	956.9	918.9	902.1	887.5	885.9
7.5°	1224.5	1187.8	1106.9	1019.0	928.2	845.6	775.6	726.0	680.4	658.6	655.3
10°	1210.3	1157.7	1041.8	919.9	794.4	677.8	573.7	486.5	433.7	402.3	398.4
12.5°	1197.0	1128.3	975.4	817.2	650.4	494.5	360.7	277.5	222.0	199.5	196.9
15°	1190.8	1104.6	913.3	712.1	499.8	314.8	197.2	152.6	134.4	129.2	128.8
17.5°	1190.1	1084.4	852.5	603.5	350.1	183.0	128.5	117.3	113.6	112.3	112.3
20°	1189.8	1065.2	791.8	490.8	222.3	121.9	107.0	104.4	101.7	100.1	100.1
22.5°	1193.4	1048.1	728.3	375.9	140.1	98.8	94.1	91.5	88.2	85.9	85.6
25°	1197.0	1034.9	663.6	267.6	101.4	85.9	81.3	77.6	73.0	70.0	69.7
27.5°	1197.7	1018.3	594.2	179.0	84.9	75.0	69.0	63.4	58.1	55.2	54.8
30°	1187.8	990.6	517.3	120.9	75.0	65.1	57.1	51.2	46.2	43.9	43.9
32.5°	1168.3	956.2	432.7	91.2	66.7	55.8	47.2	41.6	38.3	37.3	37.0
35°	1150.8	919.3	345.8	77.3	59.8	47.2	38.6	35.0	33.0	32.7	32.4
37.5°	1140.6	889.5	264.2	70.0	53.2	39.6	32.7	30.1	29.1	28.4	28.7
40°	1148.5	864.8	195.2	64.1	46.6	33.0	27.7	26.4	25.4	25.1	25.1
42.5°	1183.2	860.5	145.0	58.8	40.3	27.4	24.1	23.1	22.5	22.1	22.5
45°	1274.3	886.9	112.6	53.8	34.0	23.1	20.5	20.1	19.8	19.8	19.8
47.5°	1411.4	941.4	93.8	48.2	28.4	19.8	17.8	17.5	17.2	17.5	17.5
50°	1643.6	1041.1	83.9	42.6	23.5	16.8	15.2	15.2	15.2	15.2	15.5
52.5°	1996.7	1237.3	77.3	37.0	19.2	14.2	12.9	12.9	13.2	13.2	13.5
55°	2390.1	1497.6	71.3	31.4	16.2	11.9	10.6	10.9	11.2	11.6	11.6
57.5°	2816.9	1786.0	66.4	25.8	13.9	9.6	8.9	9.2	9.6	10.2	10.2
60°	3331.8	2098.1	59.1	20.1	11.6	7.6	6.9	7.6	8.6	9.2	9.6
62.5°	3897.3	2400.0	49.9	15.9	9.6	5.9	5.6	6.9	8.3	8.9	9.2
65°	4283.8	2494.8	38.3	12.9	7.3	4.3	4.6	6.3	7.9	8.9	8.9
67°	4127.2	2262.0	31.4	10.9	5.9	3.3	4.3	6.3	7.9	8.6	8.9
67.5°	4018.5	2170.8	30.1	10.6	5.6	3.3	4.3	6.3	7.9	8.9	8.9
70°	3269.7	1630.7	25.1	7.9	4.6	3.0	3.6	5.9	7.6	8.6	8.6
72.5°	2271.9	1005.5	22.5	5.6	4.0	2.6	3.3	5.6	7.3	8.3	8.6
75°	1080.1	364.0	19.2	4.3	3.6	2.3	3.0	5.6	7.3	8.3	8.3
77.5°	220.3	84.6	15.5	3.6	3.0	2.3	2.6	5.3	6.9	7.9	7.9
80°	72.3	32.7	11.6	3.3	3.0	2.3	2.6	5.0	6.9	7.6	7.9
82.5°	52.2	16.5	7.6	3.3	3.0	2.3	2.3	5.0	6.6	7.6	7.6
85°	40.0	11.6	5.0	3.3	3.0	2.3	2.3	4.6	6.3	7.3	7.3
87.5°	26.4	4.6	4.0	3.3	3.0	2.3	2.3	4.6	5.9	6.9	7.3
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)