

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: P191059

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191059
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-SL2-1200-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 4000K, 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: 5793 lumens
Efficiency: N/A
Efficacy: 86.5 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

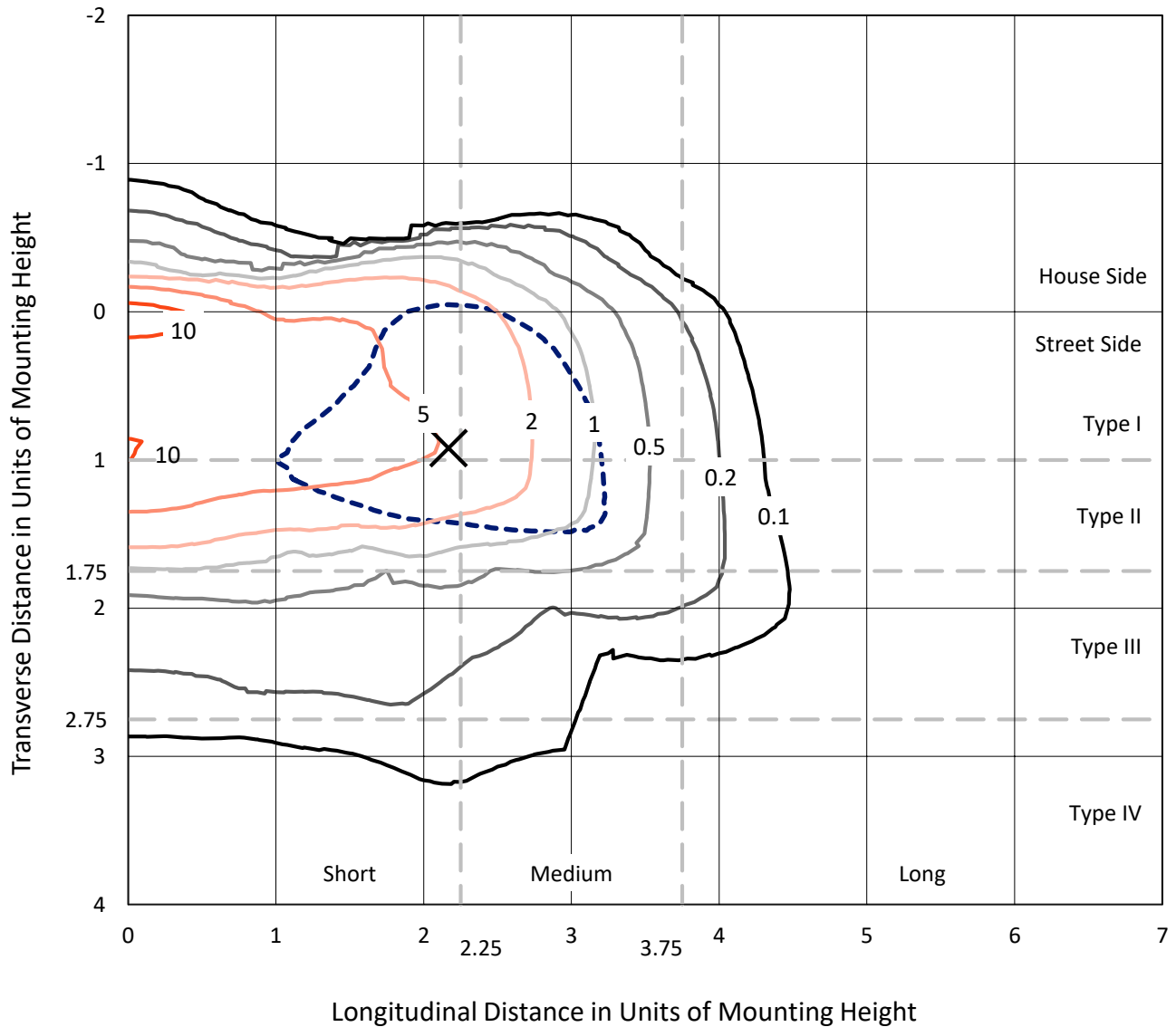


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Iso-Footcandle Lines of Horizontal Illumination

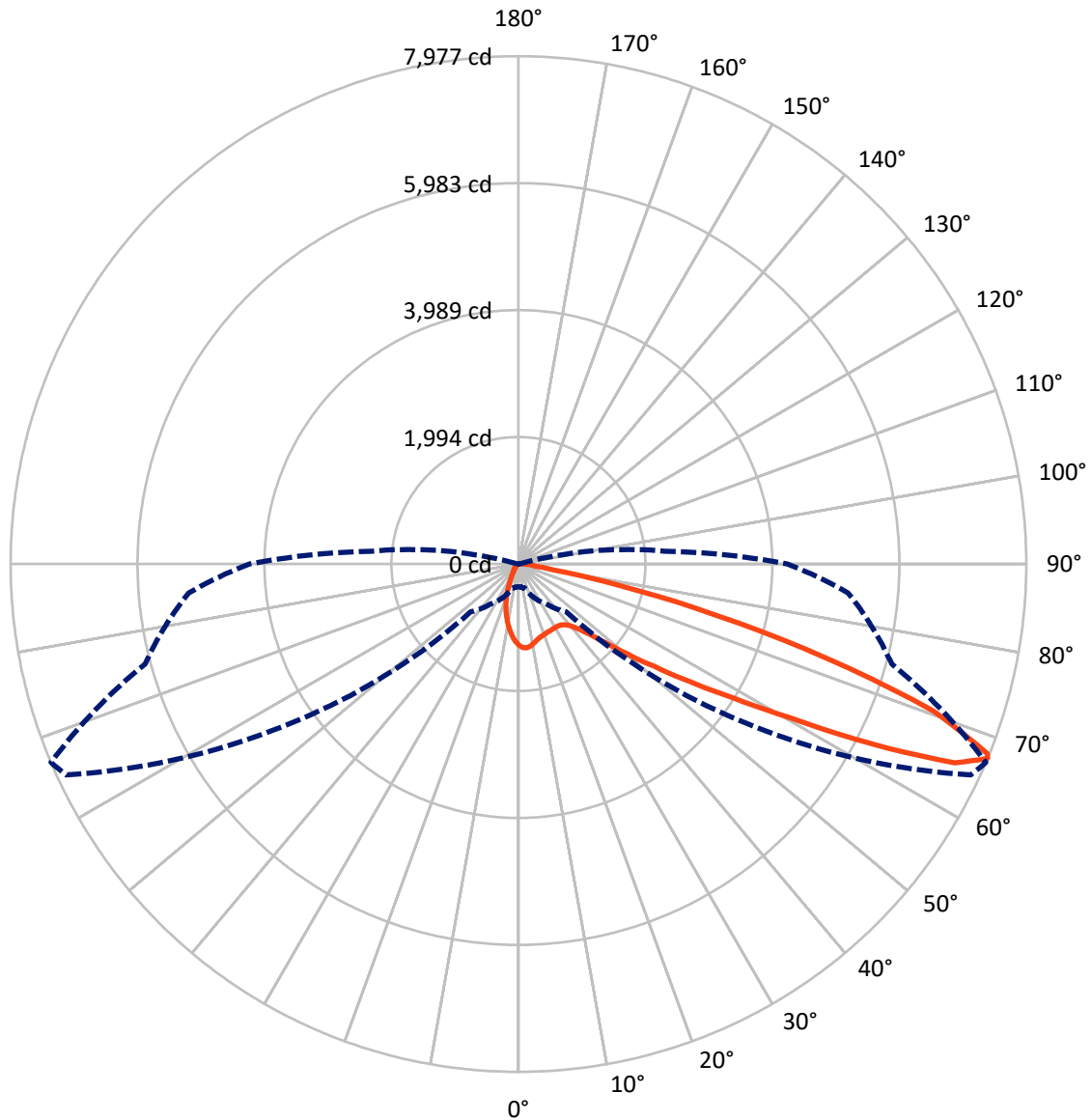
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 12.8 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	601.5	0.0	601.5
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	5191.5	0.0	5191.5
	% Fixture	89.6	0.0	89.6
Total	Lumens	5793.0	0.0	5793.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	104.0	1.8
10°-20°	221.3	3.8
20°-30°	321.7	5.6
30°-40°	501.8	8.7
40°-50°	889.0	15.3
50°-60°	1406.7	24.3
60°-70°	1611.2	27.8
70°-80°	668.3	11.5
80°-90°	69.0	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°	5793.0	100.0
0°-180°	5793.0	100.0



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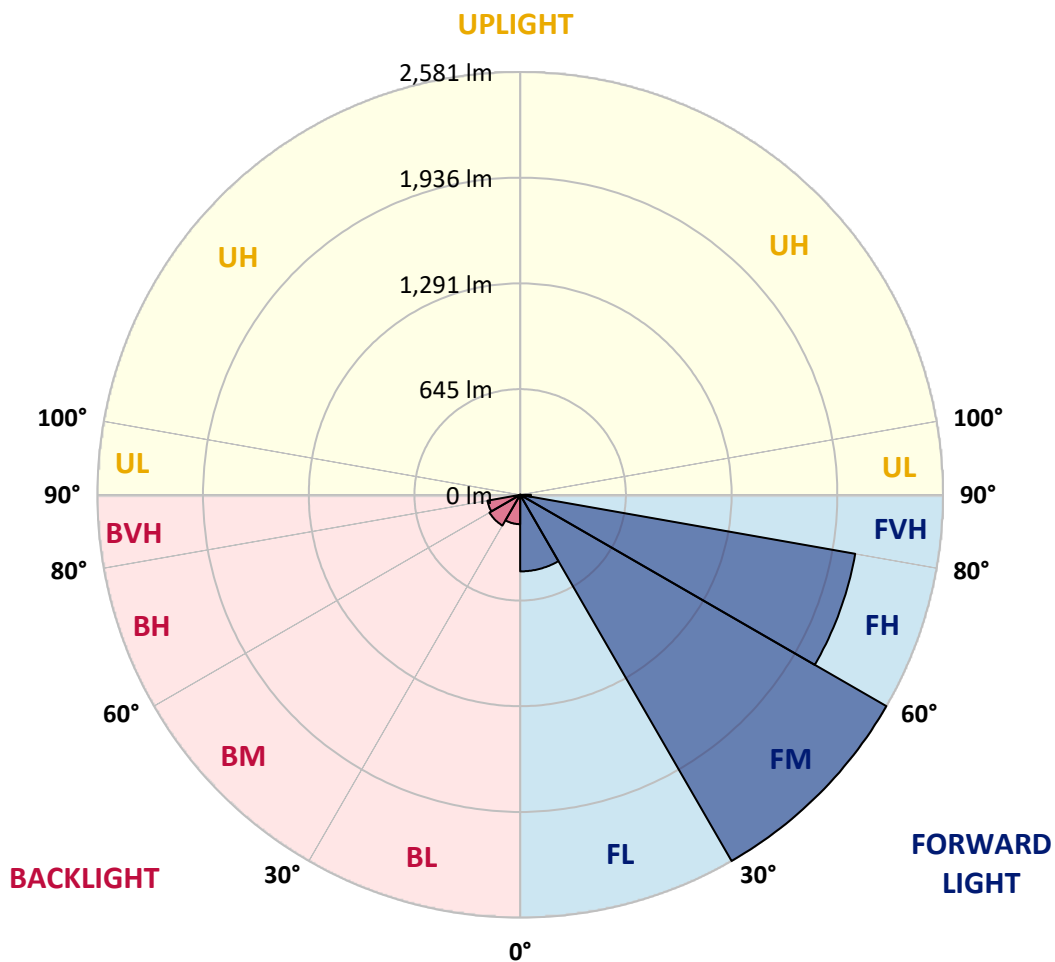
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	467.4	8.1			
FM (30°-60°)	2581.4	44.6			
FH (60°-80°)	2076.8	35.9			G2/5000
FVH (80°-90°)	65.9	1.1			G1/100
BL (0°-30°)	179.5	3.1	B1/500		
BM (30°-60°)	216.2	3.7	B0/220		
BH (60°-80°)	202.7	3.5	B1/500		G1/500
BVH (80°-90°)	3.1	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-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	1277.6	1277.6	1277.6	1277.6	1277.6	1277.6	1277.6	1277.6	1277.6	1277.6	1277.6
2.5°	1320.8	1323.5	1323.2	1325.2	1329.9	1330.2	1325.5	1316.4	1314.4	1302.5	1282.0
5°	1218.1	1225.9	1230.6	1249.8	1271.5	1297.5	1317.0	1324.2	1323.2	1314.7	1283.6
7.5°	1100.8	1108.6	1114.0	1136.7	1165.3	1209.9	1261.0	1302.9	1306.6	1315.7	1282.3
10°	1022.7	1024.2	1031.5	1053.2	1083.3	1128.9	1189.7	1263.0	1274.2	1307.6	1278.9
12.5°	958.6	959.6	969.5	992.7	1024.8	1070.8	1134.7	1219.5	1236.6	1297.5	1278.3
15°	913.0	916.7	925.5	949.8	984.0	1029.6	1095.1	1187.3	1208.0	1293.8	1284.3
17.5°	897.7	901.8	904.5	922.1	953.2	997.8	1065.0	1166.4	1189.7	1295.8	1296.2
20°	913.7	916.7	910.6	915.0	934.3	974.2	1039.7	1148.5	1176.2	1298.1	1311.3
22.5°	972.8	974.2	957.6	938.4	935.0	956.9	1019.8	1134.2	1164.0	1304.6	1329.2
25°	1074.2	1071.7	1044.7	1003.2	964.0	953.9	1007.9	1125.6	1158.0	1311.3	1347.8
27.5°	1196.4	1199.8	1162.7	1102.2	1027.6	974.2	1006.3	1121.8	1155.2	1316.1	1364.1
30°	1345.2	1349.9	1307.3	1231.2	1124.1	1024.2	1021.8	1121.2	1153.6	1313.1	1365.4
32.5°	1496.9	1502.6	1469.2	1390.8	1253.2	1108.0	1056.9	1128.5	1157.0	1302.5	1357.7
35°	1655.6	1663.7	1641.4	1574.2	1428.2	1228.9	1118.8	1151.2	1172.8	1301.6	1349.9
37.5°	1875.0	1882.4	1840.5	1769.2	1640.1	1391.1	1218.1	1193.8	1210.4	1317.8	1351.9
40°	2202.4	2201.4	2093.3	1984.1	1872.9	1597.2	1357.7	1270.8	1279.3	1366.8	1376.9
42.5°	2559.2	2557.5	2397.7	2231.8	2131.4	1850.9	1541.1	1403.9	1398.2	1457.0	1441.7
45°	2834.2	2833.9	2703.5	2516.6	2442.6	2142.3	1778.3	1589.1	1580.4	1603.6	1561.4
47.5°	2951.5	2953.5	2888.0	2756.5	2787.6	2536.2	2077.3	1857.4	1844.2	1834.8	1770.5
50°	2860.3	2864.3	2869.7	2844.0	3040.7	3065.7	2478.4	2235.5	2229.1	2186.9	2086.5
52.5°	2562.2	2582.8	2646.4	2727.8	3128.5	3573.9	3107.2	2705.2	2670.7	2625.7	2515.2
55°	2060.1	2082.7	2203.3	2401.1	2997.8	3907.7	3988.5	3310.7	3253.2	3119.1	2959.6
57.5°	1363.4	1398.6	1573.6	1824.9	2617.9	3961.4	4867.6	4151.0	3950.9	3583.7	3403.9
60°	751.2	784.9	974.8	1202.6	1890.8	3695.8	5459.0	5245.1	4891.6	4103.0	3943.5
62.5°	462.6	480.8	621.0	832.9	1133.9	2917.0	5581.3	6619.9	6210.7	4771.7	4595.3
65°	368.3	376.0	444.7	680.9	812.9	1735.0	5186.3	7668.0	7531.6	5581.3	5178.9
67°	357.5	360.5	393.0	584.5	766.3	1063.7	4345.0	7838.8	7977.3	6071.2	5197.1
67.5°	359.9	363.2	393.9	557.8	765.0	977.5	4055.0	7771.5	7946.5	6110.1	5116.3
70°	347.0	357.5	451.1	557.5	727.5	812.3	2428.4	6733.5	6915.6	5677.3	4341.2
72.5°	123.0	123.7	195.0	451.1	791.0	821.1	1219.5	4936.2	5071.1	4342.9	3129.9
75°	72.9	62.2	64.9	128.4	755.9	797.4	703.5	3154.2	3204.6	2488.5	1585.1
77.5°	50.3	43.9	45.3	56.8	287.9	786.2	558.8	1644.8	1591.1	872.8	337.6
80°	28.7	25.4	27.0	49.7	104.8	733.6	527.1	667.0	568.7	148.0	93.3
82.5°	15.2	12.9	15.5	40.9	72.9	457.2	528.1	322.3	255.4	50.0	63.5
85°	5.4	4.4	7.5	28.0	48.7	140.2	489.6	271.0	212.9	24.3	48.3
87.5°	1.0	1.0	3.1	11.5	19.6	42.9	289.6	160.8	107.8	14.5	33.1
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°	1277.6	1277.6	1277.6	1277.6	1277.6	1277.6	1277.6	1277.6	1277.6	1277.6	1277.6
2.5°	1273.5	1258.9	1239.4	1215.4	1187.0	1162.0	1143.5	1124.1	1120.1	1113.4	1112.4
5°	1265.1	1240.0	1191.4	1135.7	1076.1	1022.4	978.9	940.0	922.8	907.9	906.2
7.5°	1252.6	1215.1	1132.3	1042.4	949.5	865.0	793.4	742.7	696.0	673.7	670.3
10°	1238.1	1184.3	1065.7	941.0	812.6	693.4	586.9	497.7	443.7	411.5	407.5
12.5°	1224.5	1154.2	997.8	836.0	665.3	505.8	369.0	283.9	227.1	204.1	201.4
15°	1218.1	1130.0	934.3	728.4	511.3	322.0	201.7	156.1	137.5	132.2	131.8
17.5°	1217.4	1109.3	872.1	617.4	358.1	187.2	131.4	120.0	116.2	114.9	114.9
20°	1217.1	1089.6	810.0	502.1	227.4	124.7	109.5	106.8	104.0	102.4	102.4
22.5°	1220.8	1072.2	745.0	384.5	143.3	101.1	96.3	93.6	90.2	87.9	87.6
25°	1224.5	1058.7	678.8	273.7	103.7	87.9	83.2	79.4	74.7	71.6	71.3
27.5°	1225.2	1041.7	607.8	183.1	86.8	76.7	70.6	64.9	59.4	56.5	56.1
30°	1215.1	1013.3	529.2	123.7	76.7	66.6	58.4	52.4	47.3	44.9	44.9
32.5°	1195.1	978.1	442.6	93.3	68.2	57.1	48.3	42.6	39.2	38.2	37.8
35°	1177.2	940.4	353.7	79.1	61.2	48.3	39.5	35.8	33.8	33.5	33.1
37.5°	1166.8	909.9	270.3	71.6	54.4	40.5	33.5	30.8	29.8	29.1	29.4
40°	1174.9	884.6	199.7	65.6	47.7	33.8	28.3	27.0	26.0	25.7	25.7
42.5°	1210.4	880.2	148.3	60.1	41.2	28.0	24.7	23.6	23.0	22.6	23.0
45°	1303.5	907.3	115.2	55.0	34.8	23.6	21.0	20.6	20.3	20.3	20.3
47.5°	1443.8	963.0	96.0	49.3	29.1	20.3	18.2	17.9	17.6	17.9	17.9
50°	1681.3	1065.0	85.8	43.6	24.0	17.2	15.5	15.5	15.5	15.5	15.9
52.5°	2042.5	1265.7	79.1	37.8	19.6	14.5	13.2	13.2	13.5	13.5	13.8
55°	2445.0	1532.0	72.9	32.1	16.6	12.2	10.8	11.2	11.5	11.9	11.9
57.5°	2881.6	1827.0	67.9	26.4	14.2	9.8	9.1	9.4	9.8	10.4	10.4
60°	3408.3	2146.3	60.5	20.6	11.9	7.8	7.1	7.8	8.8	9.4	9.8
62.5°	3986.7	2455.1	51.0	16.3	9.8	6.0	5.7	7.1	8.5	9.1	9.4
65°	4382.1	2552.1	39.2	13.2	7.5	4.4	4.7	6.4	8.1	9.1	9.1
67°	4221.9	2313.9	32.1	11.2	6.0	3.4	4.4	6.4	8.1	8.8	9.1
67.5°	4110.7	2220.6	30.8	10.8	5.7	3.4	4.4	6.4	8.1	9.1	9.1
70°	3344.7	1668.1	25.7	8.1	4.7	3.1	3.7	6.0	7.8	8.8	8.8
72.5°	2324.0	1028.6	23.0	5.7	4.1	2.7	3.4	5.7	7.5	8.5	8.8
75°	1104.9	372.4	19.6	4.4	3.7	2.4	3.1	5.7	7.5	8.5	8.5
77.5°	225.4	86.5	15.9	3.7	3.1	2.4	2.7	5.4	7.1	8.1	8.1
80°	74.0	33.5	11.9	3.4	3.1	2.4	2.7	5.1	7.1	7.8	8.1
82.5°	53.4	16.9	7.8	3.4	3.1	2.4	2.4	5.1	6.8	7.8	7.8
85°	40.9	11.9	5.1	3.4	3.1	2.4	2.4	4.7	6.4	7.5	7.5
87.5°	27.0	4.7	4.1	3.4	3.1	2.4	2.4	4.7	6.0	7.1	7.5
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)