

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: P193709

Luminaire Tested: **GLEON-AF-01-LED-E1-SL3-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193709
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-SL3-8030
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3000K, 1050mA 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: 5086 lumens
Efficiency: N/A
Efficacy: 86.2 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 - G2

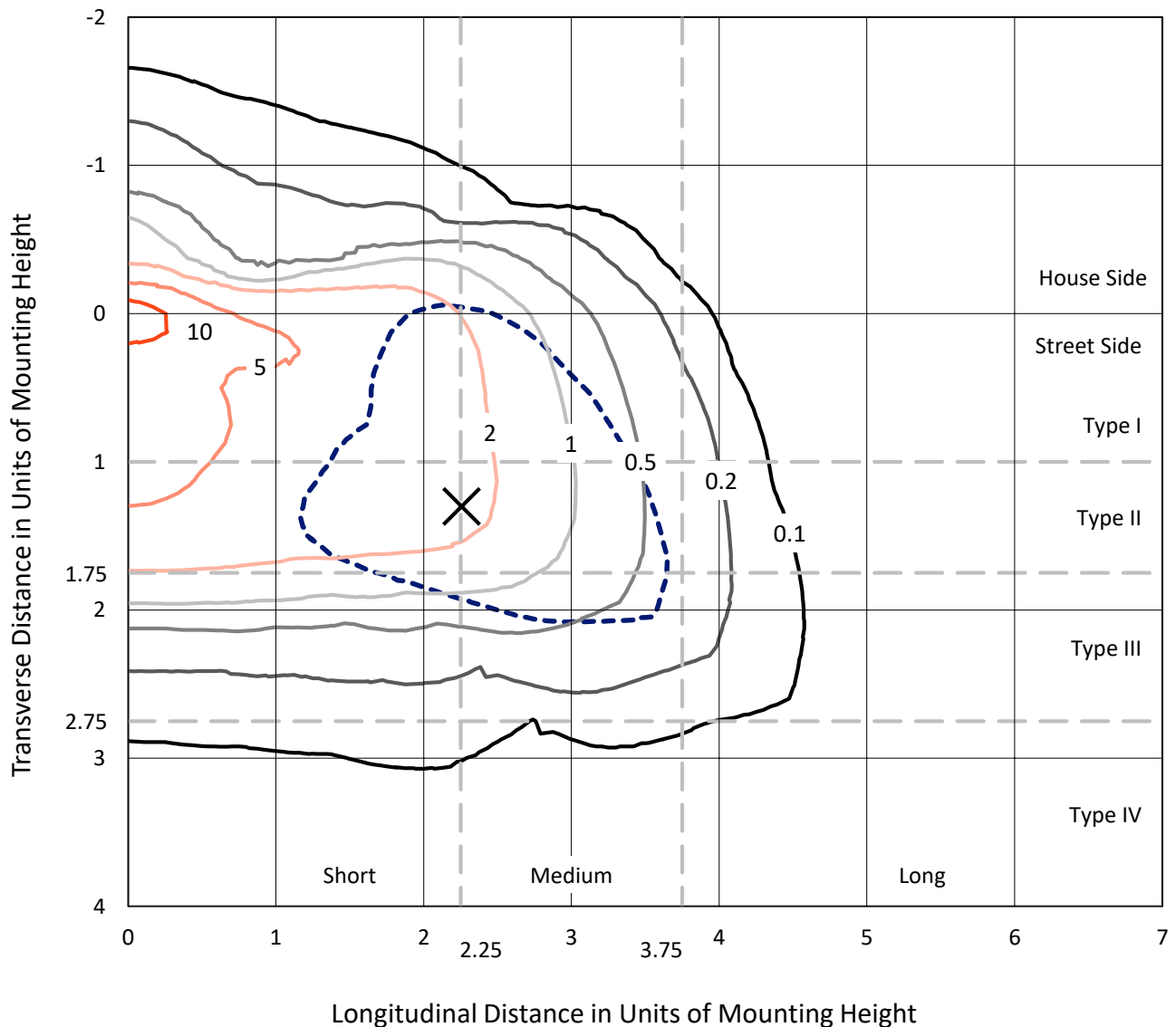
Input Watts (W): 59
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

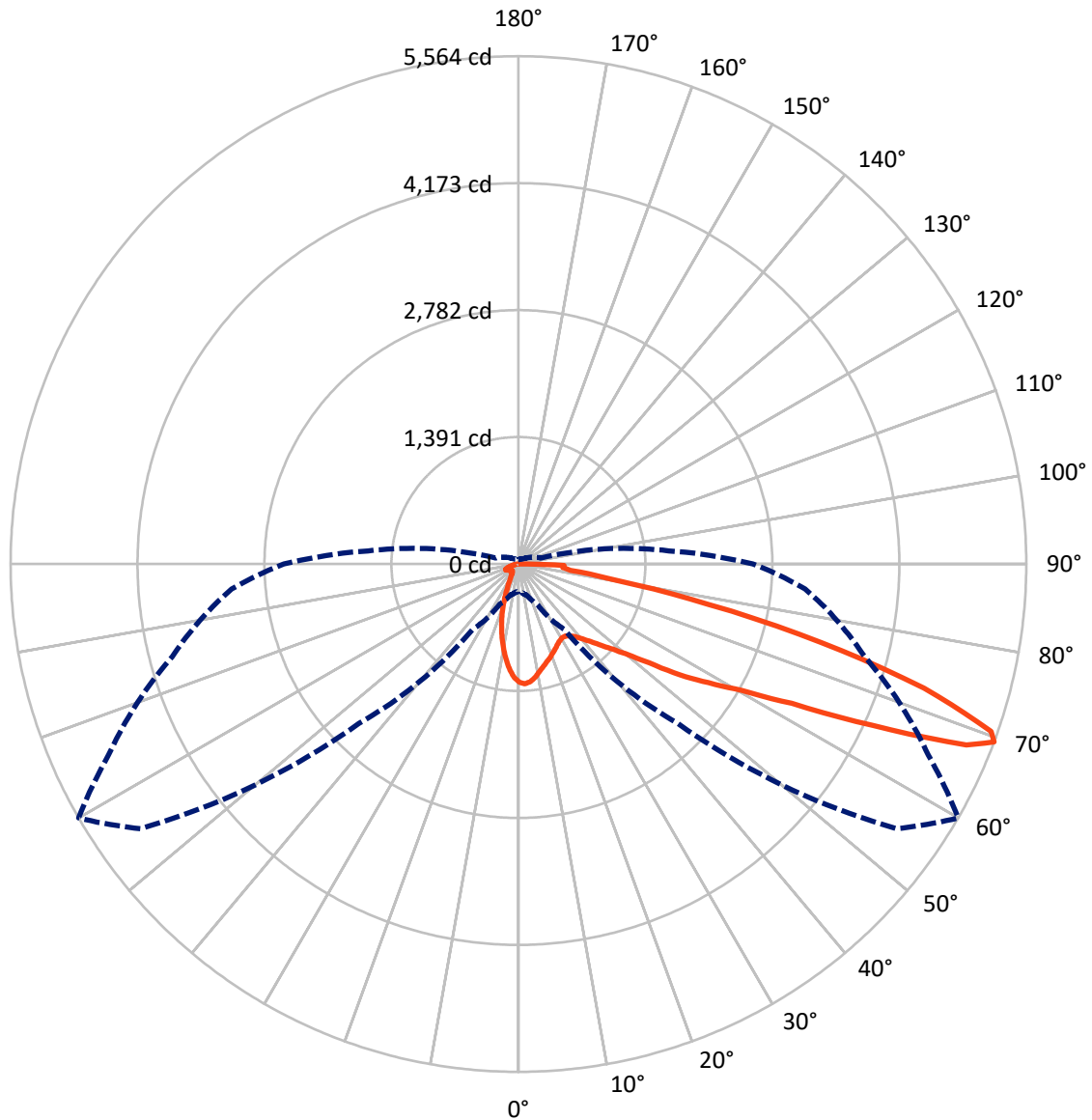
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 13 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	723.6	0.0	723.6
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	4362.4	0.0	4362.4
	% Fixture	85.8	0.0	85.8
Total	Lumens	5086.0	0.0	5086.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	109.6	2.2
10°-20°	233.5	4.6
20°-30°	297.5	5.8
30°-40°	409.0	8.0
40°-50°	663.6	13.0
50°-60°	1064.2	20.9
60°-70°	1416.4	27.8
70°-80°	764.7	15.0
80°-90°	127.6	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°	5086.0	100.0
0°-180°	5086.0	100.0

Coefficient of Utilization



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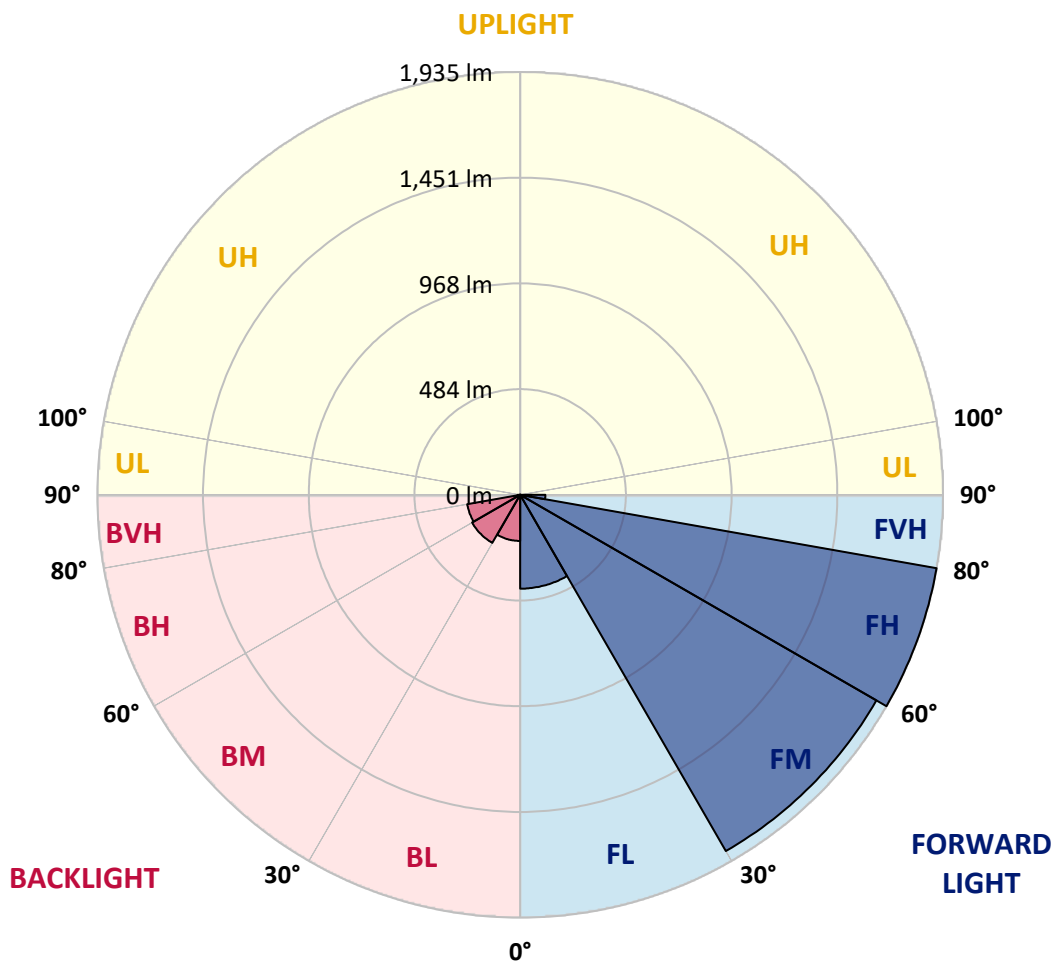
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	429.4	8.4			
FM (30°-60°)	1882.5	37.0			
FH (60°-80°)	1935.1	38.0			G2/5000
FVH (80°-90°)	115.3	2.3			G2/225
BL (0°-30°)	211.1	4.2	B1/500		
BM (30°-60°)	254.2	5.0	B1/1000		
BH (60°-80°)	246.0	4.8	B1/500		G1/500
BVH (80°-90°)	12.3	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-G2

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	1296.0	1296.0	1296.0	1296.0	1296.0	1296.0	1296.0	1296.0	1296.0	1296.0	1296.0
2.5°	1322.5	1325.5	1324.2	1323.5	1325.7	1322.3	1315.2	1312.9	1309.5	1301.4	1287.6
5°	1272.9	1281.7	1281.2	1287.9	1298.9	1301.9	1298.7	1299.2	1292.8	1282.7	1259.9
7.5°	1187.2	1190.8	1192.8	1207.3	1227.4	1243.7	1257.4	1261.8	1258.9	1250.3	1220.8
10°	1098.7	1101.7	1106.3	1123.3	1148.8	1171.2	1197.2	1212.2	1218.6	1217.1	1184.2
12.5°	1022.8	1025.7	1031.9	1051.0	1081.5	1109.0	1146.9	1165.5	1180.8	1189.9	1154.5
15°	954.7	961.1	967.0	989.1	1023.3	1059.4	1102.1	1125.7	1149.3	1169.7	1128.2
17.5°	901.7	908.1	911.5	931.6	968.0	1012.2	1062.3	1090.1	1119.6	1153.0	1102.1
20°	871.0	873.9	872.4	883.7	916.4	963.3	1022.8	1055.0	1090.6	1137.3	1076.1
22.5°	862.4	862.6	857.2	856.0	877.1	916.7	980.5	1019.6	1063.3	1127.0	1053.7
25°	883.2	882.5	867.8	855.7	857.9	881.0	939.7	985.2	1040.5	1124.7	1036.5
27.5°	929.7	931.9	910.0	887.4	865.1	864.3	908.8	956.7	1021.8	1134.8	1029.2
30°	994.8	998.5	975.1	946.4	904.4	869.7	896.8	939.7	1010.3	1155.7	1027.9
32.5°	1066.0	1070.0	1052.3	1022.1	967.0	903.1	905.1	941.2	1009.8	1184.9	1036.3
35°	1141.9	1146.4	1137.3	1111.7	1050.6	964.8	937.0	965.1	1025.7	1229.7	1058.7
37.5°	1226.7	1233.6	1236.0	1211.7	1146.4	1046.1	989.4	1010.3	1061.9	1291.8	1099.7
40°	1348.8	1358.4	1357.7	1322.8	1256.2	1155.9	1070.2	1075.6	1118.1	1374.9	1165.3
42.5°	1582.7	1584.7	1523.5	1447.6	1377.1	1271.4	1165.5	1161.1	1195.8	1480.0	1261.8
45°	1880.2	1872.1	1736.0	1589.3	1503.3	1404.1	1289.6	1268.0	1294.3	1608.3	1382.7
47.5°	2127.1	2108.5	1936.5	1734.0	1637.0	1548.3	1435.3	1397.5	1412.0	1753.7	1539.0
50°	2212.9	2198.9	2056.4	1854.4	1763.5	1724.2	1614.6	1561.1	1565.0	1927.2	1722.0
52.5°	2194.5	2192.5	2097.4	1933.8	1881.9	1909.0	1868.7	1796.2	1757.9	2119.8	1919.5
55°	2151.0	2155.2	2120.8	2026.2	2017.3	2087.3	2200.6	2147.0	2027.9	2314.1	2123.7
57.5°	1999.9	2010.7	2086.4	2142.4	2235.2	2339.4	2467.9	2452.7	2318.5	2524.2	2366.4
60°	1611.2	1636.3	1839.2	2119.8	2459.6	2785.3	2842.8	2807.4	2618.3	2784.8	2687.1
62.5°	1128.9	1155.0	1396.2	1835.3	2422.7	3289.0	3513.1	3360.5	3048.7	3168.8	3102.0
65°	604.4	616.9	801.2	1273.4	2045.3	3392.9	4492.6	4260.4	3730.2	3642.3	3457.0
67.5°	333.4	340.3	410.8	643.0	1310.0	2987.8	5116.6	5292.1	4582.0	3957.5	3392.4
69°	301.5	307.8	354.0	486.9	876.6	2470.4	5055.7	5564.0	4955.5	3926.3	3153.6
70°	294.8	300.7	342.2	448.9	709.5	2036.2	4851.5	5494.5	5044.4	3814.5	2945.3
72.5°	265.3	271.7	312.0	403.2	606.4	1015.2	3843.0	4645.7	4579.8	3307.4	2234.0
75°	247.4	253.3	321.6	394.8	580.6	642.5	2533.5	3423.9	3366.6	2313.6	1204.6
77.5°	105.9	105.4	149.1	334.1	589.2	622.1	1361.3	2138.9	1951.5	988.9	345.9
80°	70.8	69.5	70.8	98.3	540.3	625.5	713.2	1085.7	820.1	252.1	170.5
82.5°	60.9	59.9	62.2	59.9	189.9	714.0	606.4	577.4	389.9	143.2	84.5
85°	41.0	39.3	53.6	53.8	89.7	634.4	683.0	487.7	315.5	85.0	41.8
87.5°	19.7	19.2	31.2	38.1	52.6	257.7	766.3	499.7	318.2	43.5	19.9
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°	1296.0	1296.0	1296.0	1296.0	1296.0	1296.0	1296.0	1296.0	1296.0	1296.0	1296.0
2.5°	1283.5	1273.4	1263.6	1251.8	1239.5	1225.7	1218.8	1212.0	1210.2	1208.3	1201.4
5°	1248.1	1233.8	1209.3	1182.2	1153.7	1126.0	1104.8	1091.6	1081.5	1076.3	1067.3
7.5°	1202.4	1181.5	1138.5	1091.8	1043.9	1000.2	962.3	938.5	915.9	905.4	893.3
10°	1158.9	1127.7	1060.9	992.1	923.3	857.2	795.0	751.1	712.0	690.1	674.7
12.5°	1121.6	1078.8	986.2	893.1	798.7	704.6	611.5	538.3	477.1	444.9	428.5
15°	1085.2	1033.6	915.2	797.0	675.9	547.9	425.5	342.5	291.9	271.7	264.8
17.5°	1052.3	986.2	843.9	700.2	549.1	394.3	286.0	240.3	220.9	214.2	212.0
20°	1016.6	938.3	770.0	599.0	416.9	275.7	223.3	203.2	195.3	193.4	192.4
22.5°	982.2	891.1	699.2	490.6	299.5	212.8	191.9	183.5	182.3	184.0	184.0
25°	953.0	848.8	622.8	377.4	219.9	179.1	171.7	169.8	174.4	180.8	182.1
27.5°	931.1	814.2	541.5	278.6	175.2	155.8	155.5	158.7	170.3	182.5	185.0
30°	916.2	781.3	454.5	201.0	146.9	137.1	141.0	147.9	164.9	182.3	187.0
32.5°	908.5	757.0	363.9	155.5	125.8	120.4	127.0	135.4	152.1	168.3	174.4
35°	914.4	739.0	278.4	129.7	111.0	106.9	113.8	121.9	131.7	138.6	143.2
37.5°	936.6	731.9	210.1	116.2	101.0	97.0	102.5	107.1	111.0	113.0	115.2
40°	984.2	739.5	168.3	109.3	95.3	90.4	92.6	94.3	96.8	98.8	99.7
42.5°	1054.5	762.4	150.9	106.6	92.4	85.3	84.8	85.5	88.7	92.4	93.1
45°	1152.8	802.7	149.6	108.3	90.9	81.1	78.9	79.8	84.8	90.4	91.4
47.5°	1278.3	864.1	159.4	113.5	92.1	78.9	75.2	76.4	82.6	90.2	91.4
50°	1430.4	949.8	175.9	121.1	97.5	79.4	74.0	74.7	81.1	89.4	90.7
52.5°	1610.0	1071.4	193.8	128.5	103.2	82.6	74.9	73.2	79.1	86.5	88.0
55°	1809.7	1227.4	212.3	135.1	106.1	86.5	76.9	71.2	75.4	81.6	82.8
57.5°	2054.9	1445.6	244.2	141.5	108.1	89.2	78.9	69.3	70.8	75.2	76.2
60°	2386.8	1754.2	300.5	152.1	112.5	90.2	78.6	67.6	66.1	68.5	69.0
62.5°	2784.6	2089.3	347.4	165.3	119.9	90.9	77.1	66.3	62.2	62.2	62.6
65°	3020.7	2179.0	321.4	176.4	126.0	90.2	75.4	65.1	59.2	56.5	56.8
67.5°	2820.5	1916.3	275.4	178.6	125.8	86.7	72.7	62.9	56.3	52.1	51.8
69°	2569.6	1653.5	254.8	172.7	119.9	82.3	69.3	60.4	54.1	49.6	49.4
70°	2367.4	1493.0	241.3	166.3	113.5	79.1	66.6	58.2	52.3	48.2	47.7
72.5°	1721.3	978.3	206.1	143.0	93.6	66.3	57.5	51.1	46.7	44.2	43.7
75°	860.1	466.6	167.3	116.0	71.7	53.1	47.2	42.7	40.5	40.0	39.8
77.5°	282.5	213.7	119.6	86.5	53.3	41.5	38.1	34.9	34.4	35.9	35.4
80°	155.3	124.3	75.9	57.2	36.4	30.5	30.0	28.3	29.0	31.4	31.0
82.5°	79.1	64.6	46.9	34.4	24.6	21.9	23.8	22.8	23.8	26.0	25.8
85°	39.1	35.4	29.7	20.9	16.2	14.0	17.0	17.7	18.2	19.9	19.9
87.5°	22.6	20.9	15.7	9.8	8.1	7.4	9.8	9.6	11.3	12.3	12.0
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)