

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: P269066

Luminaire Tested: **GLEON-AF-02-LED-E1-SL2-7027-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269066
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24286)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-02-LED-E1-SL2-7027-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6830.1 lumens
Efficiency: N/A
Efficacy: 103.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G2

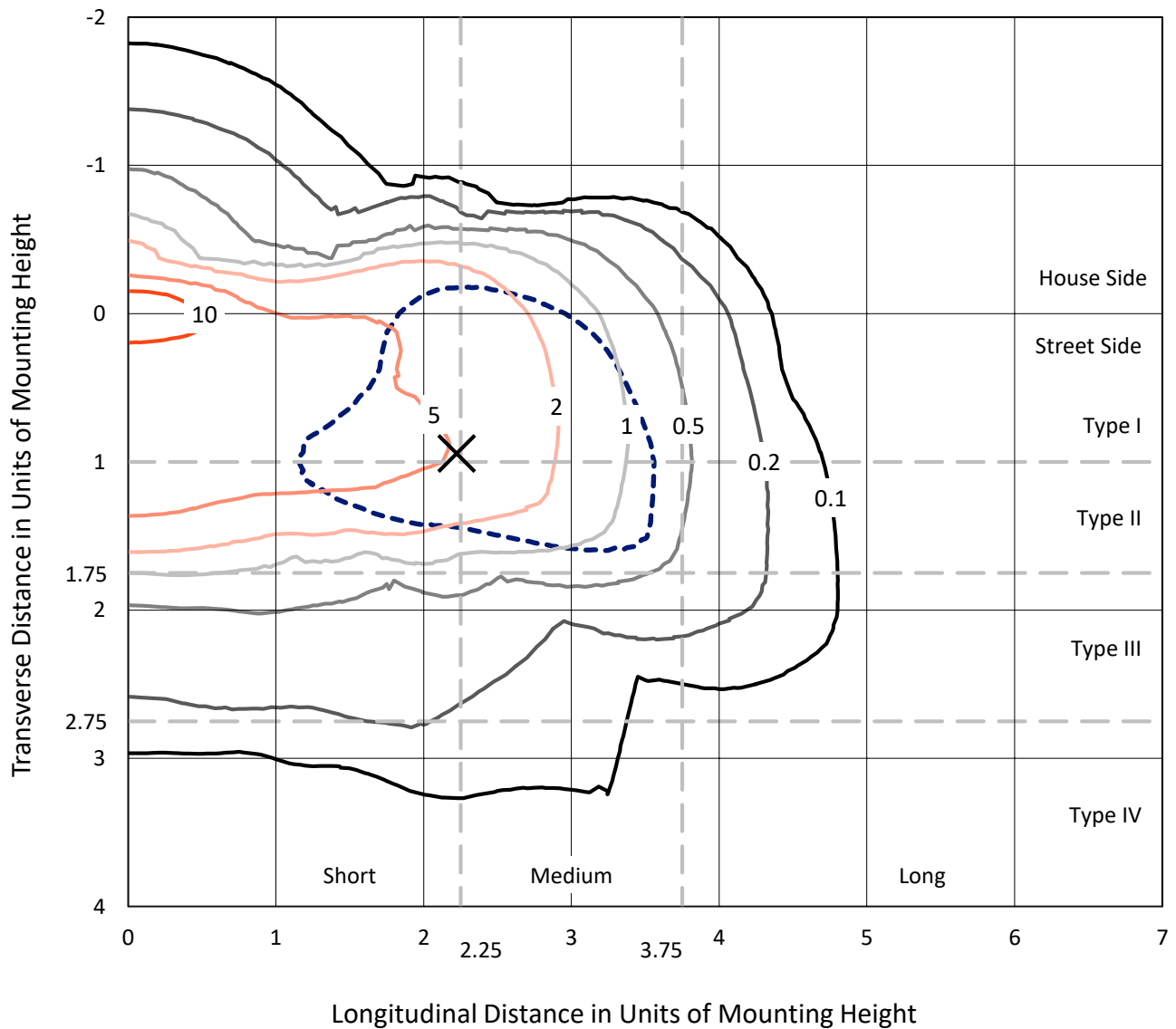
Input Watts (W): 66
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

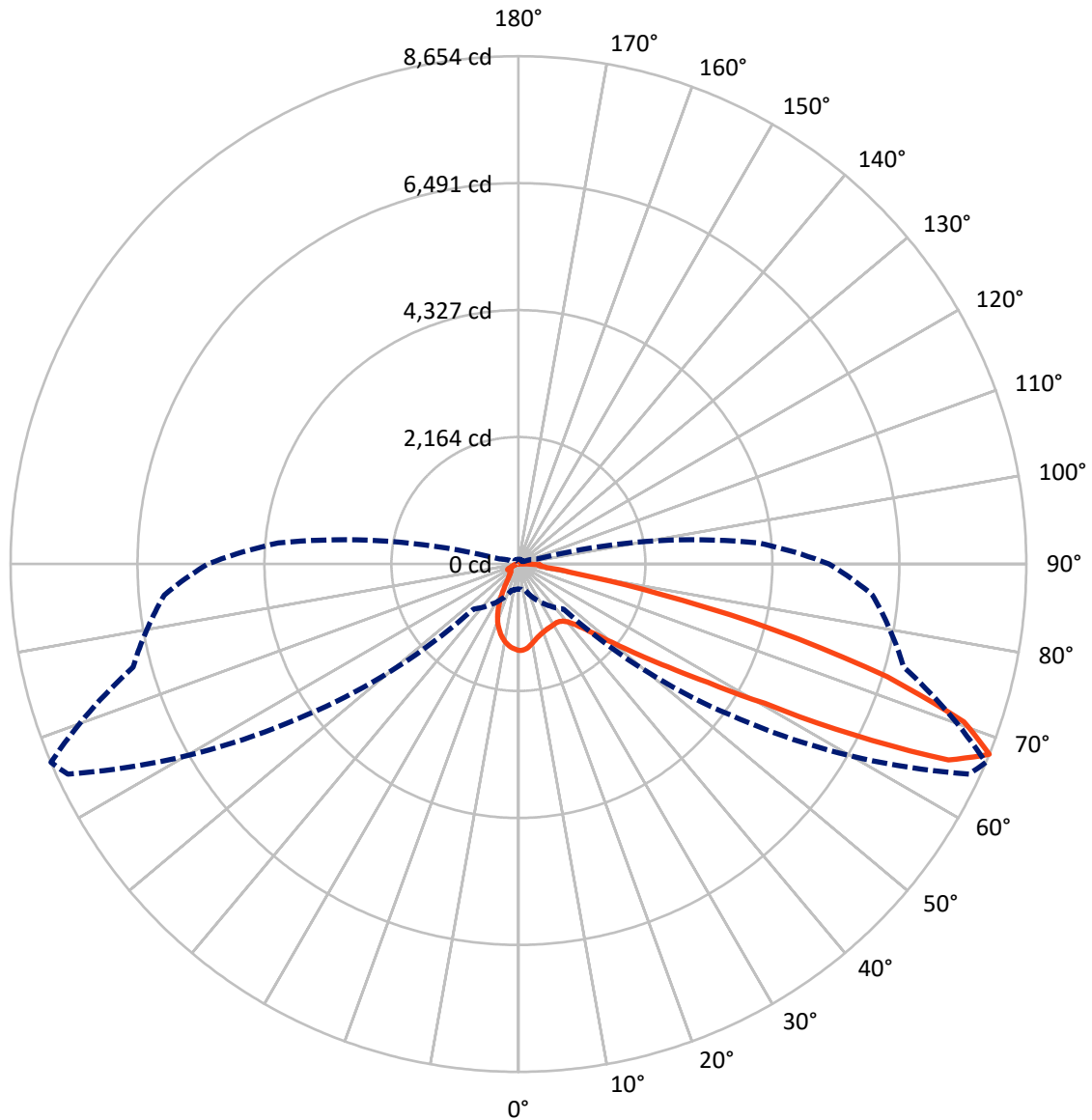
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 14.7 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1131.7	0.0	1131.7
	% Fixture	16.6	0.0	16.6
Street Side	Lumens	5698.4	0.0	5698.4
	% Fixture	83.4	0.0	83.4
Total	Lumens	6830.1	0.0	6830.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	125.7	1.8
10°-20°	290.8	4.3
20°-30°	394.2	5.8
30°-40°	560.4	8.2
40°-50°	937.6	13.7
50°-60°	1483.3	21.7
60°-70°	1889.6	27.7
70°-80°	989.8	14.5
80°-90°	158.7	2.3
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°	6830.1	100.0
0°-180°	6830.1	100.0



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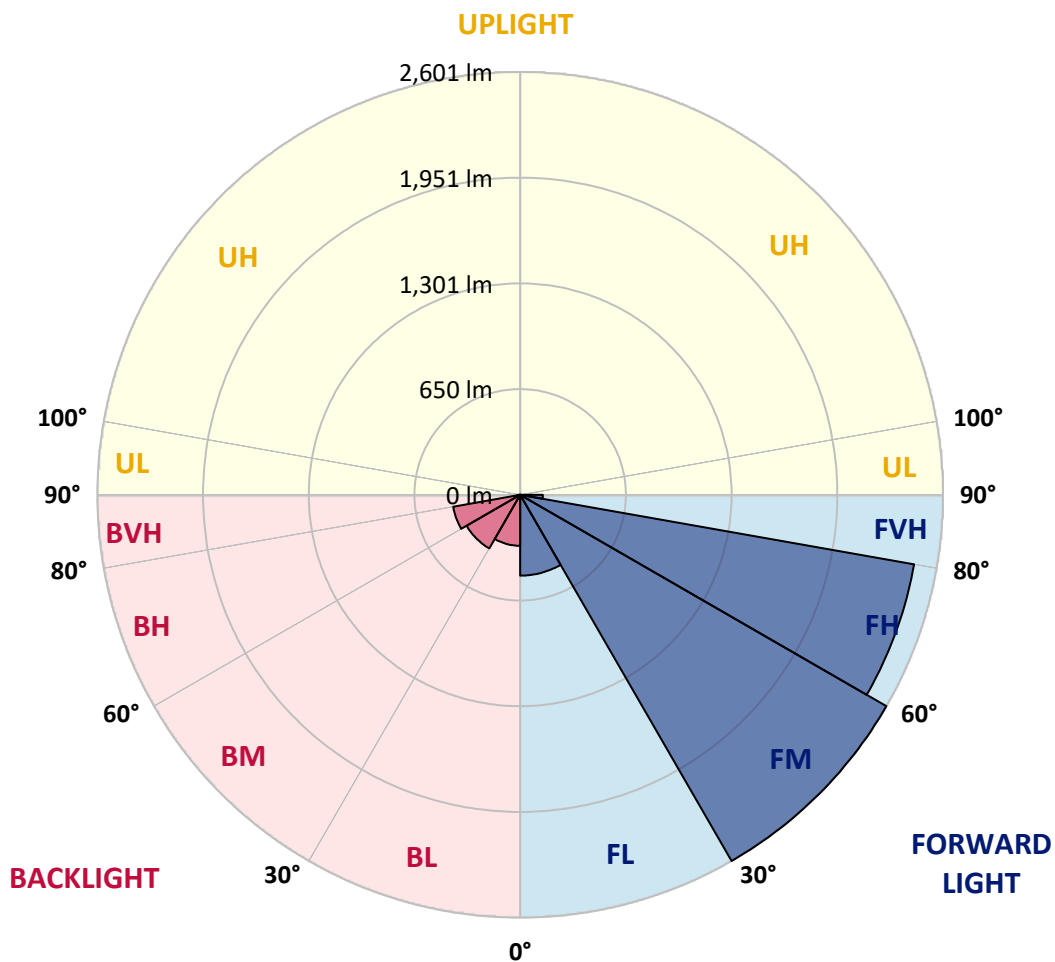
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	497.1	7.3			
FM (30°-60°)	2601.1	38.1			
FH (60°-80°)	2460.7	36.0			G2/5000
FVH (80°-90°)	139.6	2.0			G2/225
BL (0°-30°)	313.7	4.6	B1/500		
BM (30°-60°)	380.3	5.6	B1/1000		
BH (60°-80°)	418.6	6.1	B1/500		G1/500
BVH (80°-90°)	19.2	0.3			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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	1473.2	1473.2	1473.2	1473.2	1473.2	1473.2	1473.2	1473.2	1473.2	1473.2	1473.2
2.5°	1412.7	1415.0	1422.3	1427.0	1448.2	1457.4	1463.8	1470.3	1471.2	1474.3	1471.2
5°	1264.5	1269.5	1283.3	1298.8	1339.8	1372.3	1406.1	1441.6	1448.0	1470.9	1477.4
7.5°	1149.6	1148.3	1159.6	1178.1	1220.3	1265.2	1324.7	1395.1	1408.9	1460.5	1485.3
10°	1065.7	1064.8	1076.8	1096.0	1136.0	1178.5	1245.9	1342.2	1361.7	1443.9	1493.2
12.5°	1003.8	1004.0	1016.3	1037.5	1078.1	1120.9	1189.3	1291.0	1315.9	1424.7	1501.2
15°	962.7	965.3	975.1	997.7	1037.5	1080.2	1147.1	1252.6	1280.5	1409.6	1510.3
17.5°	948.8	953.2	956.5	973.0	1007.1	1049.8	1115.5	1224.3	1253.9	1399.1	1518.3
20°	961.6	966.7	960.3	965.9	987.5	1025.2	1090.6	1202.1	1232.5	1387.3	1519.5
22.5°	1016.5	1021.3	1002.4	985.9	984.5	1007.4	1070.2	1184.5	1215.9	1378.5	1519.8
25°	1113.2	1116.2	1084.6	1046.2	1008.7	1001.0	1055.6	1172.5	1205.9	1370.9	1513.4
27.5°	1231.8	1234.1	1197.7	1141.1	1066.0	1016.3	1050.6	1165.5	1200.0	1364.2	1502.5
30°	1375.9	1387.1	1338.1	1266.8	1157.2	1061.0	1060.7	1161.7	1193.7	1352.7	1481.3
32.5°	1523.4	1528.1	1494.5	1422.0	1280.3	1139.8	1088.9	1164.4	1192.1	1338.8	1454.4
35°	1673.0	1679.0	1657.2	1598.9	1448.2	1255.3	1144.3	1180.3	1202.4	1334.2	1435.5
37.5°	1866.7	1874.8	1844.4	1777.0	1652.8	1412.0	1236.1	1220.0	1234.5	1347.5	1429.8
40°	2172.8	2169.0	2080.6	1980.1	1876.4	1612.4	1367.5	1287.4	1295.7	1391.0	1447.3
42.5°	2529.2	2520.0	2367.6	2209.9	2122.2	1854.9	1541.3	1404.2	1402.6	1476.6	1509.0
45°	2813.4	2806.0	2668.7	2474.2	2404.3	2131.0	1766.0	1578.3	1565.8	1612.4	1622.8
47.5°	2967.5	2967.7	2888.6	2729.9	2728.2	2481.9	2054.7	1830.2	1808.6	1830.6	1819.4
50°	2913.5	2920.6	2912.1	2861.6	3024.0	2942.0	2431.5	2181.5	2138.1	2159.6	2116.9
52.5°	2652.8	2661.9	2711.8	2789.1	3148.2	3498.2	2985.2	2618.1	2567.5	2559.8	2512.3
55°	2190.6	2201.7	2303.6	2513.9	3044.9	3871.8	3858.8	3174.5	3094.0	3020.9	3000.7
57.5°	1510.0	1528.5	1692.1	2004.7	2710.4	3984.5	4899.4	3967.8	3804.1	3548.8	3553.4
60°	851.1	872.8	1065.7	1349.7	2035.4	3862.0	5690.9	5169.1	4823.5	4166.8	4201.8
62.5°	541.3	564.6	711.0	937.7	1221.2	3201.7	6015.2	6839.4	6400.6	4928.7	4963.0
65°	438.3	448.3	517.3	774.0	886.8	1929.0	5769.1	8215.3	8051.7	5895.7	5735.4
67.5°	427.8	431.1	466.8	649.7	850.4	1084.3	4601.6	8472.6	8654.2	6798.6	6057.0
70°	422.7	434.5	526.0	620.1	814.5	914.5	2765.3	7767.4	8054.1	7034.7	5628.9
72.5°	205.2	204.5	264.7	560.8	917.4	948.5	1420.7	6284.7	6572.3	6094.7	4625.6
75°	165.4	151.3	144.4	205.4	882.1	979.4	905.3	4324.4	4532.6	4086.3	2843.4
77.5°	156.9	140.1	128.3	128.6	372.8	1038.7	767.0	2393.4	2454.1	1845.7	779.1
80°	130.1	114.5	106.1	119.6	180.5	989.3	829.2	1083.1	994.0	453.4	259.3
82.5°	90.3	82.1	79.8	100.4	144.4	705.0	964.3	582.0	488.0	227.0	160.0
85°	57.6	49.1	54.5	73.1	112.5	325.4	993.3	453.7	360.7	144.2	90.3
87.5°	26.6	21.6	26.9	40.5	73.4	112.2	945.0	509.6	371.4	76.1	57.0
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°	1473.2	1473.2	1473.2	1473.2	1473.2	1473.2	1473.2	1473.2	1473.2	1473.2	1473.2
2.5°	1473.8	1467.6	1462.5	1453.0	1442.6	1432.4	1423.4	1412.0	1408.6	1405.6	1410.2
5°	1478.6	1472.2	1453.6	1424.7	1392.7	1362.8	1332.7	1307.3	1291.4	1282.6	1287.7
7.5°	1485.6	1476.6	1438.1	1384.9	1327.3	1274.9	1220.6	1177.1	1145.2	1130.0	1134.4
10°	1492.2	1474.6	1412.0	1332.0	1247.9	1169.8	1084.3	1013.5	960.9	933.2	940.0
12.5°	1494.8	1466.8	1375.2	1266.2	1150.5	1036.0	910.2	804.3	728.9	701.2	695.6
15°	1497.5	1458.0	1334.8	1191.1	1033.1	870.9	694.5	567.9	505.2	491.5	488.4
17.5°	1498.2	1442.9	1289.0	1109.4	895.3	674.6	474.9	394.4	394.7	417.0	419.7
20°	1491.0	1420.4	1233.5	1008.1	730.2	466.5	326.1	312.3	363.1	418.7	425.3
22.5°	1474.9	1390.3	1170.4	890.0	541.3	307.2	252.2	267.4	333.1	401.2	408.9
25°	1454.4	1354.0	1096.0	752.8	358.3	219.5	211.6	230.1	274.5	319.9	324.4
27.5°	1426.4	1310.8	1012.5	595.8	232.8	180.9	186.3	198.7	216.9	237.2	239.2
30°	1390.3	1259.3	923.2	434.5	175.8	162.8	170.4	177.1	185.0	196.4	197.4
32.5°	1349.0	1209.8	831.7	300.2	155.9	153.3	159.3	162.8	168.7	175.8	176.4
35°	1314.3	1162.6	736.6	212.2	147.5	146.2	150.2	151.5	157.4	165.1	165.6
37.5°	1294.4	1124.3	638.6	171.0	141.8	139.7	142.1	142.1	150.2	161.7	163.3
40°	1295.7	1103.1	540.6	154.6	137.1	134.3	134.7	134.7	145.2	157.7	158.6
42.5°	1332.5	1108.5	453.7	148.2	133.4	130.3	128.6	129.6	138.3	146.6	147.2
45°	1418.7	1146.5	372.2	144.2	129.6	128.6	125.0	124.7	128.0	131.7	131.7
47.5°	1560.1	1221.7	316.9	141.5	126.7	126.3	121.9	117.6	117.1	118.5	118.5
50°	1790.2	1351.1	279.9	138.3	124.7	121.9	116.9	110.1	107.7	108.8	108.8
52.5°	2135.1	1581.6	265.8	134.3	120.3	115.9	110.1	103.5	101.4	101.7	101.7
55°	2587.5	1936.0	263.7	129.6	115.5	108.4	103.8	98.6	96.3	96.9	96.9
57.5°	3140.1	2426.1	299.8	122.3	109.1	101.1	98.4	95.0	93.3	94.3	94.0
60°	3812.0	3067.4	444.7	114.5	102.8	94.3	94.3	91.5	90.3	91.3	91.0
62.5°	4586.0	3804.1	625.1	108.8	95.9	88.9	90.3	88.9	87.6	88.3	87.9
65°	5272.5	4283.9	585.3	104.5	89.2	83.9	86.2	85.6	84.5	85.2	84.9
67.5°	5292.5	4106.2	328.7	99.7	82.9	78.8	82.1	81.8	81.1	81.8	81.4
70°	4723.2	3467.2	185.2	91.0	76.1	72.8	77.4	77.2	76.4	77.9	77.4
72.5°	3784.2	2516.1	135.5	80.2	69.3	66.4	71.8	71.4	71.4	73.4	72.5
75°	2177.5	1294.7	108.2	68.7	62.3	59.9	64.7	64.9	65.7	68.5	66.4
77.5°	620.8	403.5	88.3	58.3	53.5	52.6	57.2	57.9	58.3	61.4	58.6
80°	230.8	185.9	72.8	48.9	43.7	44.1	48.5	49.4	49.9	52.9	49.4
82.5°	147.2	122.6	59.0	37.6	34.3	34.0	39.4	40.8	40.8	41.1	39.0
85°	85.9	73.4	44.5	27.3	24.3	23.3	29.4	31.7	30.6	30.0	28.7
87.5°	57.6	50.6	27.3	15.1	13.1	12.4	17.2	18.9	18.1	17.2	16.2
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)