

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: P191099

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191099
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-01-LED-E1-SL2-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 4000K, 1200mA LIGHTSQUARE 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: 6850.7 lumens
Efficiency: N/A
Efficacy: 102.2 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

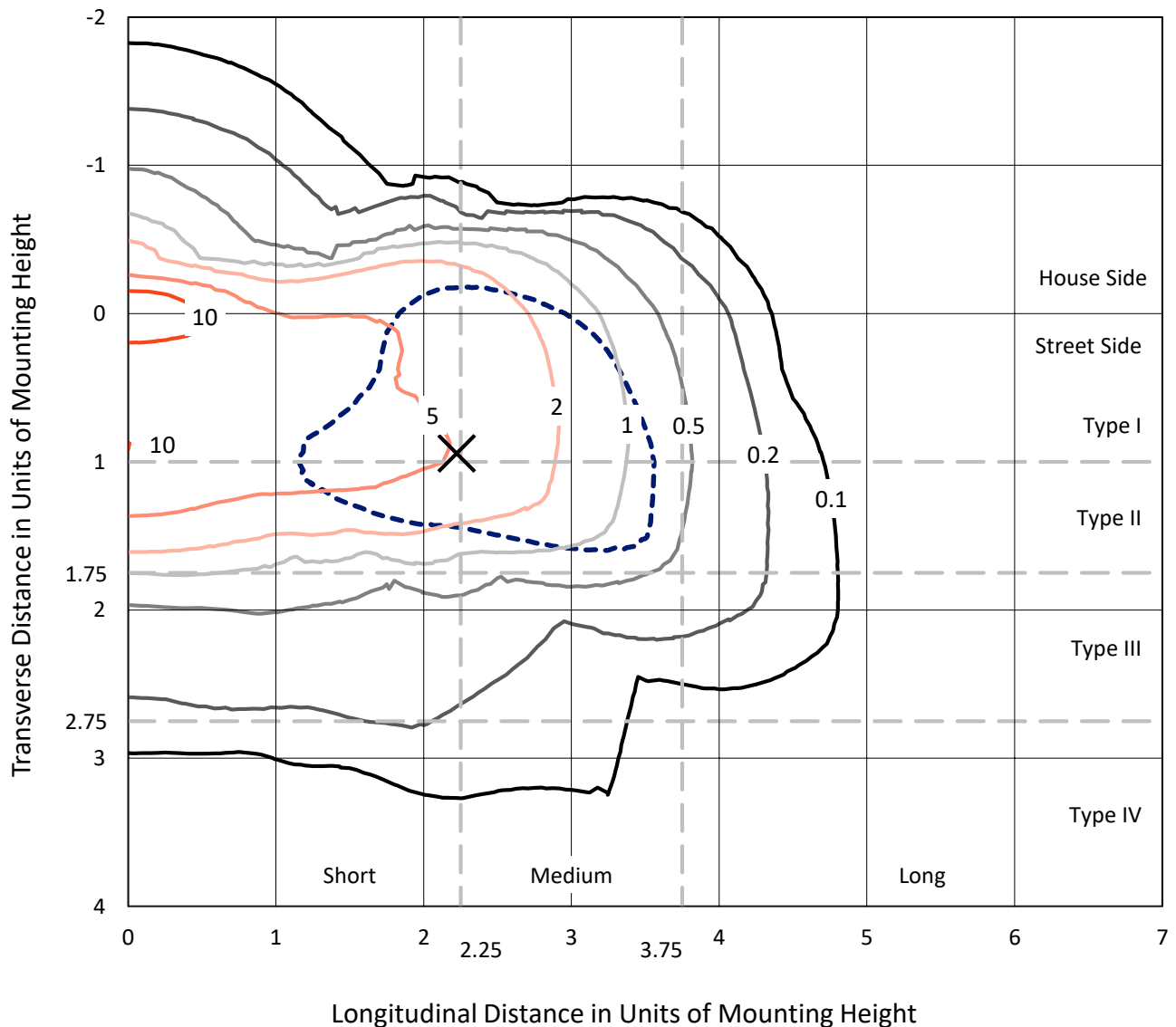
Input Watts (W): 67
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

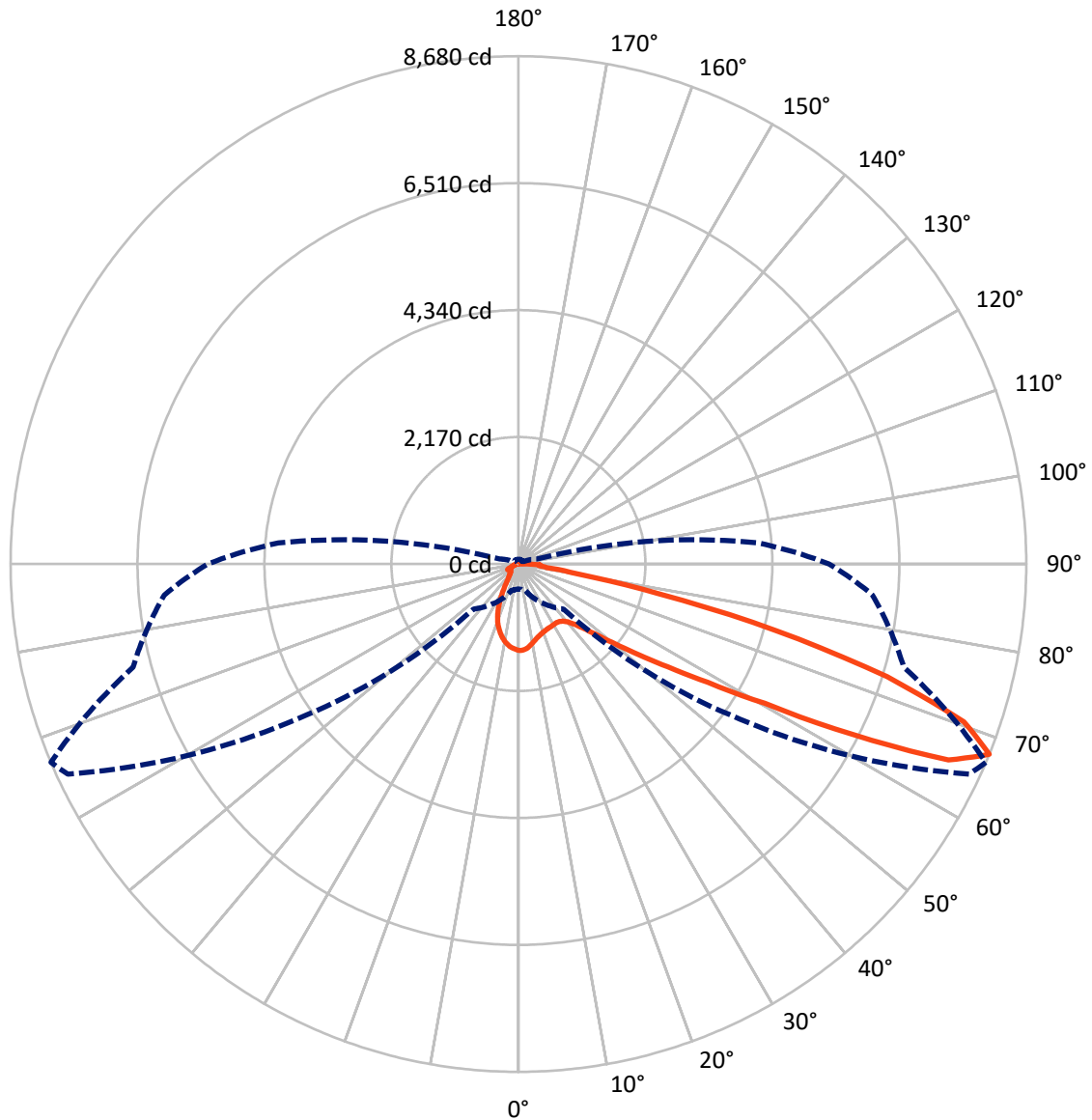
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 14.8 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1135.1	0.0	1135.1
	% Fixture	16.6	0.0	16.6
Street Side	Lumens	5715.6	0.0	5715.6
	% Fixture	83.4	0.0	83.4
Total	Lumens	6850.7	0.0	6850.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	126.1	1.8
10°-20°	291.7	4.3
20°-30°	395.4	5.8
30°-40°	562.1	8.2
40°-50°	940.4	13.7
50°-60°	1487.8	21.7
60°-70°	1895.3	27.7
70°-80°	992.7	14.5
80°-90°	159.2	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°	6850.7	100.0
0°-180°	6850.7	100.0

Coefficient of Utilization



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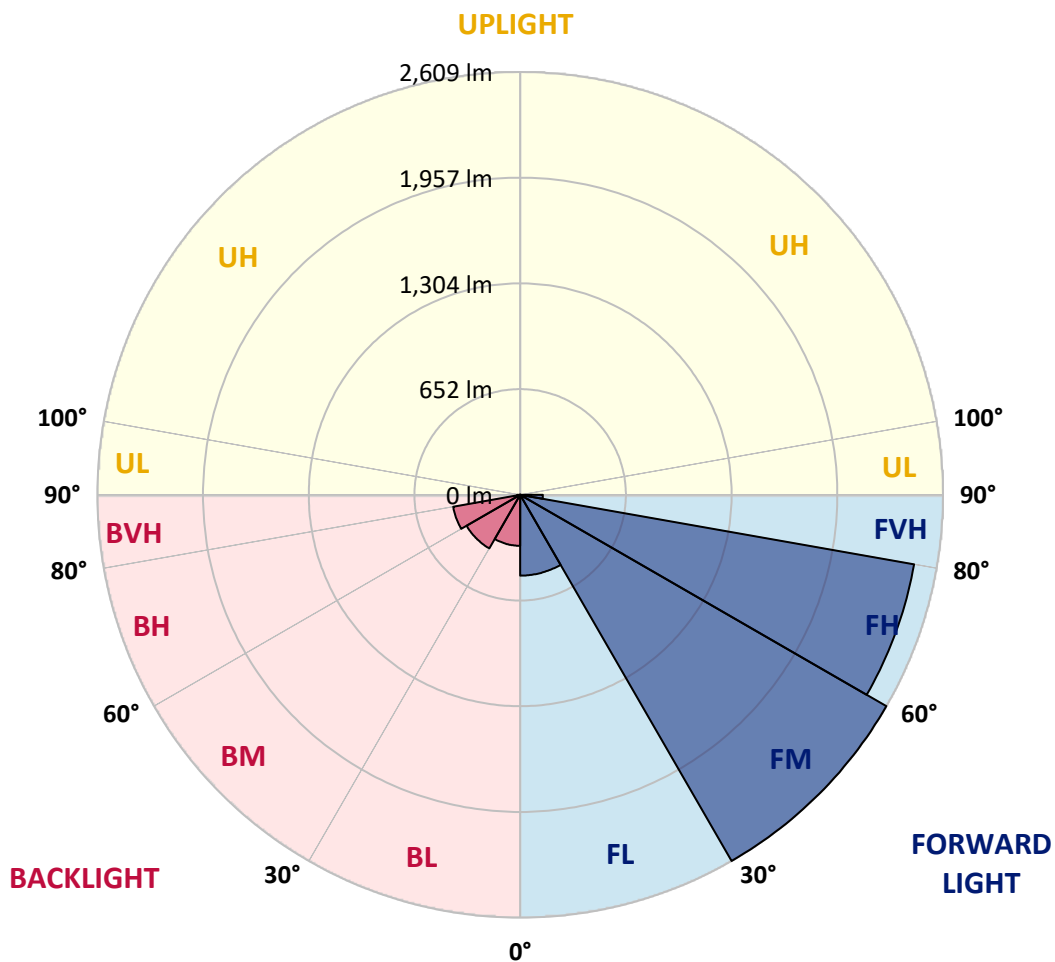
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	498.6	7.3			
FM (30°-60°)	2608.9	38.1			
FH (60°-80°)	2468.2	36.0			G2/5000
FVH (80°-90°)	140.0	2.0			G2/225
BL (0°-30°)	314.6	4.6	B1/500		
BM (30°-60°)	381.4	5.6	B1/1000		
BH (60°-80°)	419.8	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°	1477.7	1477.7	1477.7	1477.7	1477.7	1477.7	1477.7	1477.7	1477.7	1477.7	1477.7
2.5°	1416.9	1419.2	1426.7	1431.4	1452.7	1461.8	1468.2	1474.7	1475.6	1478.7	1475.6
5°	1268.3	1273.3	1287.2	1302.7	1343.9	1376.4	1410.4	1445.9	1452.4	1475.3	1481.7
7.5°	1153.1	1151.6	1163.2	1181.7	1224.0	1268.9	1328.7	1399.3	1413.1	1464.9	1489.8
10°	1068.9	1067.9	1080.0	1099.3	1139.5	1182.1	1249.6	1346.3	1365.8	1448.3	1497.6
12.5°	1006.8	1007.1	1019.3	1040.5	1081.4	1124.3	1192.9	1295.0	1319.9	1429.1	1505.7
15°	965.6	968.2	978.0	1000.7	1040.5	1083.4	1150.6	1256.4	1284.4	1413.8	1514.9
17.5°	951.7	956.0	959.4	976.0	1010.2	1053.0	1118.9	1228.1	1257.7	1403.4	1523.0
20°	964.5	969.6	963.2	968.9	990.5	1028.4	1093.9	1205.8	1236.1	1391.5	1524.0
22.5°	1019.6	1024.3	1005.4	988.9	987.5	1010.5	1073.3	1188.2	1219.6	1382.7	1524.3
25°	1116.6	1119.6	1087.8	1049.3	1011.8	1004.0	1058.8	1176.0	1209.4	1374.9	1517.9
27.5°	1235.4	1237.8	1201.4	1144.6	1069.3	1019.3	1053.7	1168.9	1203.7	1368.2	1507.1
30°	1380.1	1391.2	1342.2	1270.6	1160.7	1064.2	1063.9	1165.1	1197.3	1356.7	1485.8
32.5°	1528.0	1532.8	1498.9	1426.3	1284.1	1143.2	1092.2	1167.9	1195.6	1342.9	1458.7
35°	1678.0	1684.1	1662.1	1603.7	1452.7	1259.2	1147.6	1183.8	1206.1	1338.1	1439.8
37.5°	1872.3	1880.4	1850.0	1782.4	1657.8	1416.2	1239.8	1223.7	1238.2	1351.6	1434.1
40°	2179.4	2175.6	2086.8	1986.2	1882.0	1617.2	1371.6	1291.2	1299.7	1395.2	1451.7
42.5°	2536.8	2527.7	2374.6	2216.5	2128.7	1860.4	1545.9	1408.4	1406.8	1481.0	1513.5
45°	2821.9	2814.4	2676.7	2481.7	2411.4	2137.5	1771.2	1583.1	1570.5	1617.2	1627.7
47.5°	2976.3	2976.7	2897.2	2738.1	2736.4	2489.5	2060.7	1835.8	1814.2	1836.1	1824.9
50°	2922.3	2929.3	2920.9	2870.2	3033.0	2951.0	2438.8	2188.1	2144.5	2166.2	2123.2
52.5°	2660.8	2669.9	2719.9	2797.6	3157.7	3508.7	2994.2	2626.0	2575.3	2567.5	2519.9
55°	2197.3	2208.4	2310.4	2521.6	3054.0	3883.4	3870.5	3184.0	3103.3	3030.0	3009.7
57.5°	1514.5	1533.1	1697.3	2010.8	2718.5	3996.6	4914.2	3979.7	3815.5	3559.4	3564.2
60°	853.7	875.3	1068.9	1353.7	2041.5	3873.6	5708.1	5184.7	4838.1	4179.4	4214.5
62.5°	542.9	566.2	713.2	940.5	1225.0	3211.5	6033.4	6860.0	6419.8	4943.5	4978.0
65°	439.6	449.7	518.9	776.3	889.6	1934.8	5786.4	8240.1	8075.9	5913.4	5752.6
67.5°	429.0	432.4	468.2	651.7	853.0	1087.5	4615.5	8498.2	8680.2	6819.2	6075.2
70°	424.0	435.8	527.7	622.0	816.9	917.2	2773.6	7790.8	8078.2	7056.0	5645.9
72.5°	205.7	205.1	265.6	562.5	920.2	951.3	1425.0	6303.6	6592.1	6113.1	4639.5
75°	165.9	151.7	145.0	206.1	884.8	982.4	908.1	4337.4	4546.2	4098.6	2852.0
77.5°	157.4	140.6	128.7	129.1	374.0	1041.9	769.3	2400.7	2461.4	1851.3	781.4
80°	130.4	114.9	106.4	119.9	181.1	992.3	831.8	1086.5	997.0	454.7	260.1
82.5°	90.5	82.4	80.1	100.7	145.0	707.1	967.2	583.8	489.5	227.7	160.5
85°	57.8	49.3	54.7	73.3	112.8	326.3	996.3	455.1	361.8	144.5	90.5
87.5°	26.7	21.6	27.0	40.5	73.7	112.5	948.0	511.2	372.7	76.3	57.1
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°	1477.7	1477.7	1477.7	1477.7	1477.7	1477.7	1477.7	1477.7	1477.7	1477.7	1477.7
2.5°	1478.4	1471.9	1466.9	1457.4	1447.0	1436.8	1427.6	1416.2	1412.8	1409.7	1414.5
5°	1483.1	1476.6	1458.1	1429.1	1396.9	1366.9	1336.8	1311.1	1295.3	1286.5	1291.6
7.5°	1490.1	1481.0	1442.6	1389.2	1331.4	1278.7	1224.3	1180.7	1148.7	1133.4	1137.8
10°	1496.6	1479.0	1416.2	1336.2	1251.7	1173.3	1087.5	1016.5	963.8	936.1	942.9
12.5°	1499.3	1471.3	1379.3	1269.9	1154.0	1039.2	912.8	806.7	731.1	703.4	697.7
15°	1502.0	1462.5	1338.8	1194.6	1036.1	873.6	696.6	569.6	506.8	492.9	489.9
17.5°	1502.7	1447.3	1292.9	1112.9	897.9	676.7	476.4	395.6	396.0	418.3	420.9
20°	1495.6	1424.7	1237.2	1011.1	732.4	467.9	327.0	313.1	364.2	419.9	426.7
22.5°	1479.4	1394.6	1173.9	892.5	542.9	308.1	253.1	268.2	334.1	402.3	410.1
25°	1458.7	1358.1	1099.3	755.0	359.5	220.2	212.2	230.8	275.4	320.9	325.3
27.5°	1430.7	1314.8	1015.5	597.6	233.4	181.4	186.8	199.3	217.6	237.8	239.9
30°	1394.6	1263.1	926.0	435.8	176.4	163.2	170.9	177.7	185.5	196.9	197.9
32.5°	1353.1	1213.5	834.1	301.1	156.4	153.7	159.8	163.2	169.3	176.4	177.1
35°	1318.2	1166.2	738.9	212.9	148.0	146.6	150.7	152.0	157.7	165.5	166.2
37.5°	1298.3	1127.7	640.6	171.7	142.2	140.2	142.6	142.6	150.7	162.1	163.9
40°	1299.7	1106.4	542.3	155.1	137.5	134.8	135.1	135.1	145.6	158.1	159.1
42.5°	1336.5	1111.8	455.1	148.6	133.8	130.7	129.1	130.0	138.8	147.0	147.6
45°	1422.9	1150.0	373.3	144.5	130.0	129.1	125.3	125.0	128.4	132.1	132.1
47.5°	1564.8	1225.3	317.9	141.9	127.1	126.6	122.3	117.9	117.5	118.9	118.9
50°	1795.6	1355.0	280.7	138.8	125.0	122.3	117.2	110.5	108.1	109.1	109.1
52.5°	2141.5	1586.5	266.6	134.8	120.6	116.2	110.5	103.7	101.7	102.0	102.0
55°	2595.2	1941.9	264.5	130.0	115.9	108.7	104.0	99.0	96.7	97.3	97.3
57.5°	3149.6	2433.4	300.6	122.7	109.5	101.4	98.6	95.2	93.6	94.6	94.2
60°	3823.6	3076.6	445.9	114.9	103.0	94.6	94.6	91.9	90.5	91.6	91.2
62.5°	4599.9	3815.5	627.0	109.1	96.3	89.2	90.5	89.2	87.9	88.5	88.2
65°	5288.5	4296.9	587.2	104.8	89.5	84.1	86.4	85.8	84.8	85.5	85.1
67.5°	5308.4	4118.5	329.7	100.0	83.1	79.1	82.4	82.1	81.4	82.1	81.7
70°	4737.4	3477.6	185.8	91.2	76.3	72.9	77.7	77.3	76.7	78.1	77.7
72.5°	3795.6	2523.6	135.8	80.4	69.6	66.6	71.9	71.6	71.6	73.7	72.6
75°	2184.1	1298.6	108.4	68.9	62.5	60.1	64.9	65.2	65.9	68.5	66.6
77.5°	622.7	404.7	88.5	58.4	53.7	52.7	57.4	58.1	58.4	61.5	58.8
80°	231.4	186.5	72.9	49.0	43.9	44.3	48.7	49.6	50.0	53.0	49.6
82.5°	147.6	123.0	59.1	37.8	34.5	34.2	39.5	40.9	40.9	41.2	39.2
85°	86.1	73.7	44.6	27.4	24.3	23.3	29.4	31.7	30.8	30.1	28.7
87.5°	57.8	50.6	27.4	15.2	13.2	12.5	17.2	18.9	18.2	17.2	16.3
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)