

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: P299816

Luminaire Tested: **GLNA-AF-01-LED-E1-SL3-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P299816
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: GLNA-AF-01-LED-E1-SL3-7030
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3000K CCT 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND Type V
Square Medium OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6008.1 lumens
Efficiency: N/A
Efficacy: 101.8 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

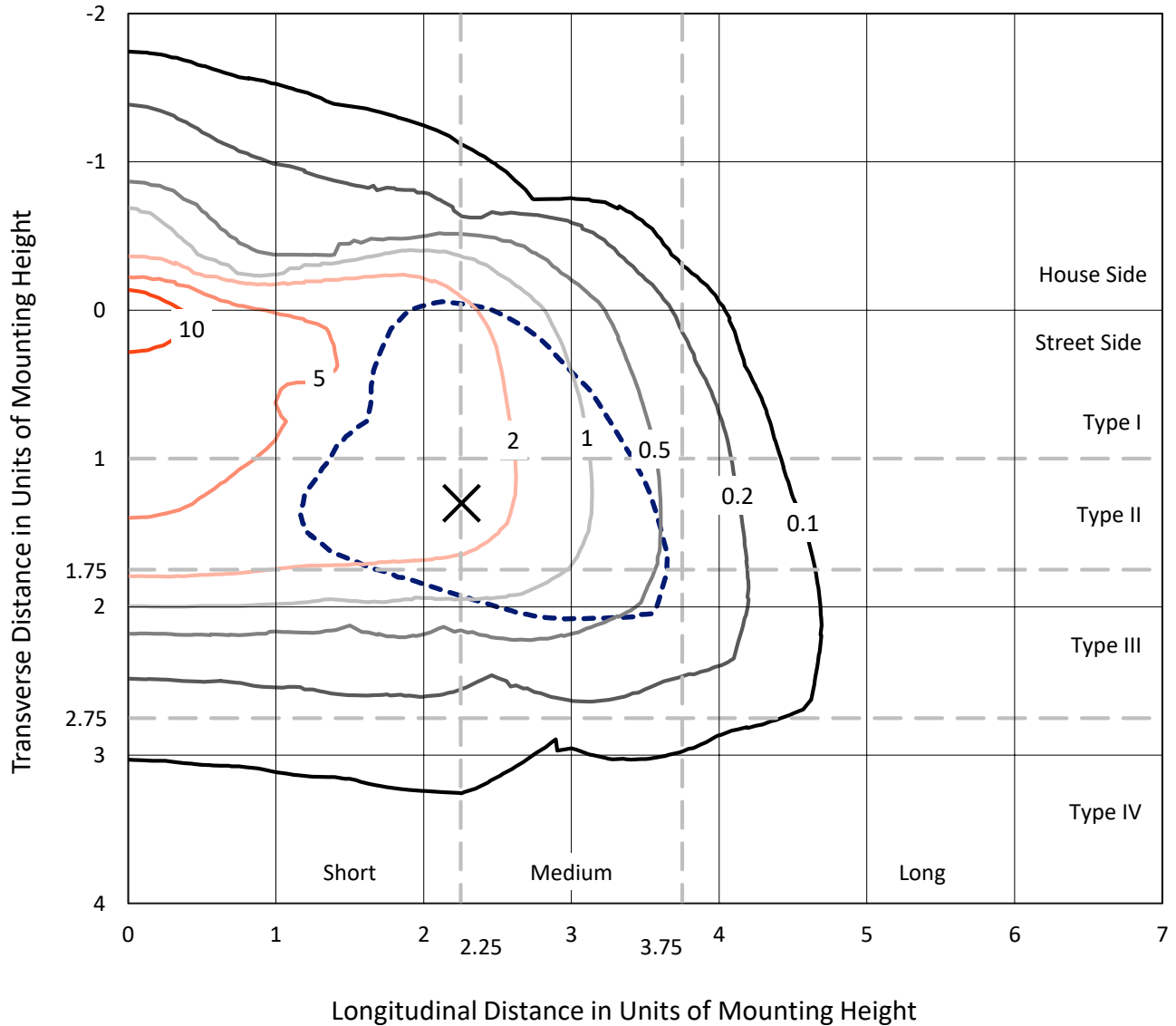
Input Watts (W): 59
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

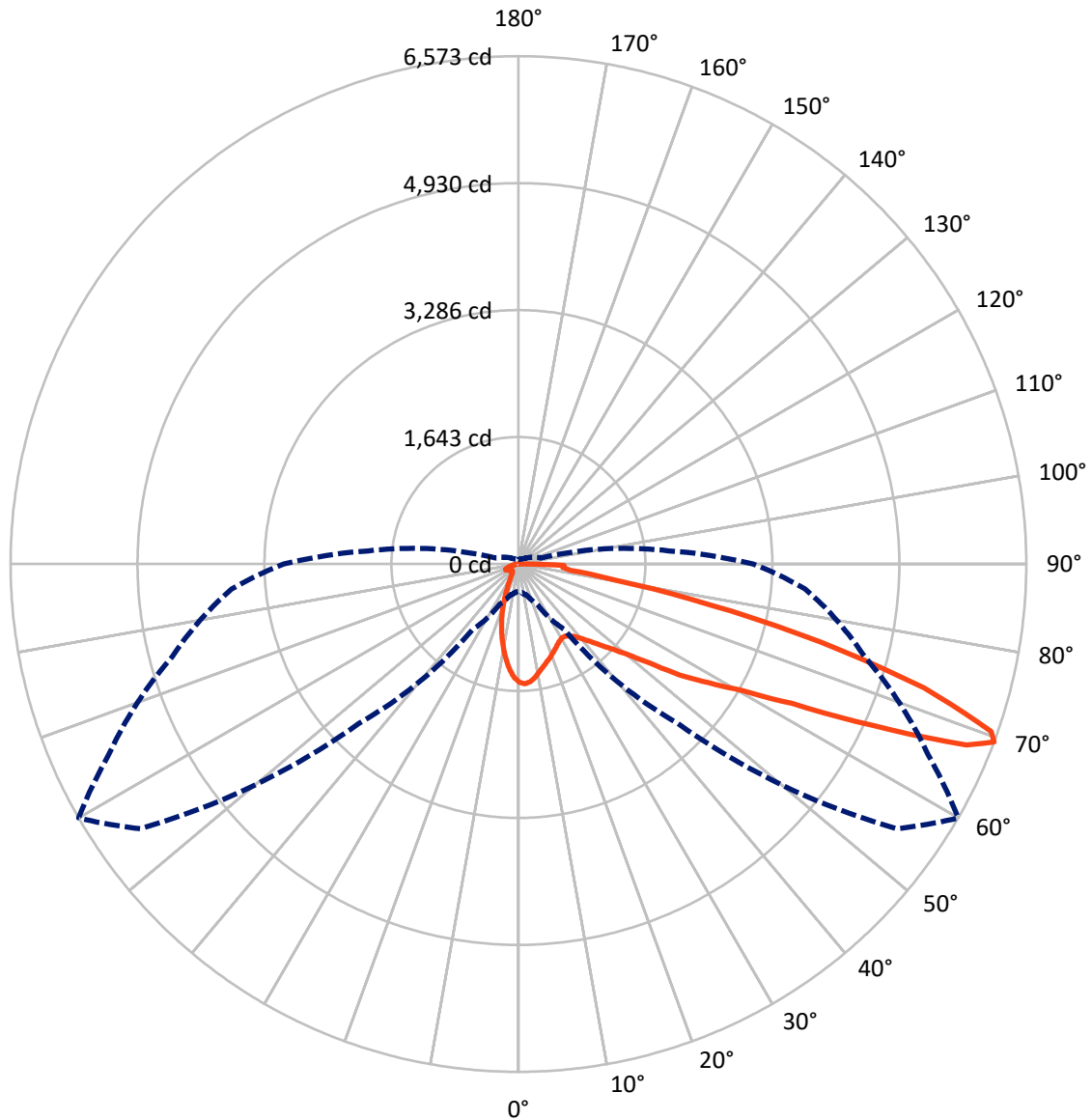
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 15.3 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	854.8	0.0	854.8
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	5153.3	0.0	5153.3
	% Fixture	85.8	0.0	85.8
Total	Lumens	6008.1	0.0	6008.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	129.4	2.2
10°-20°	275.8	4.6
20°-30°	351.4	5.8
30°-40°	483.1	8.0
40°-50°	783.9	13.0
50°-60°	1257.2	20.9
60°-70°	1673.2	27.8
70°-80°	903.4	15.0
80°-90°	150.7	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°	6008.1	100.0
0°-180°	6008.1	100.0

Coefficient of Utilization



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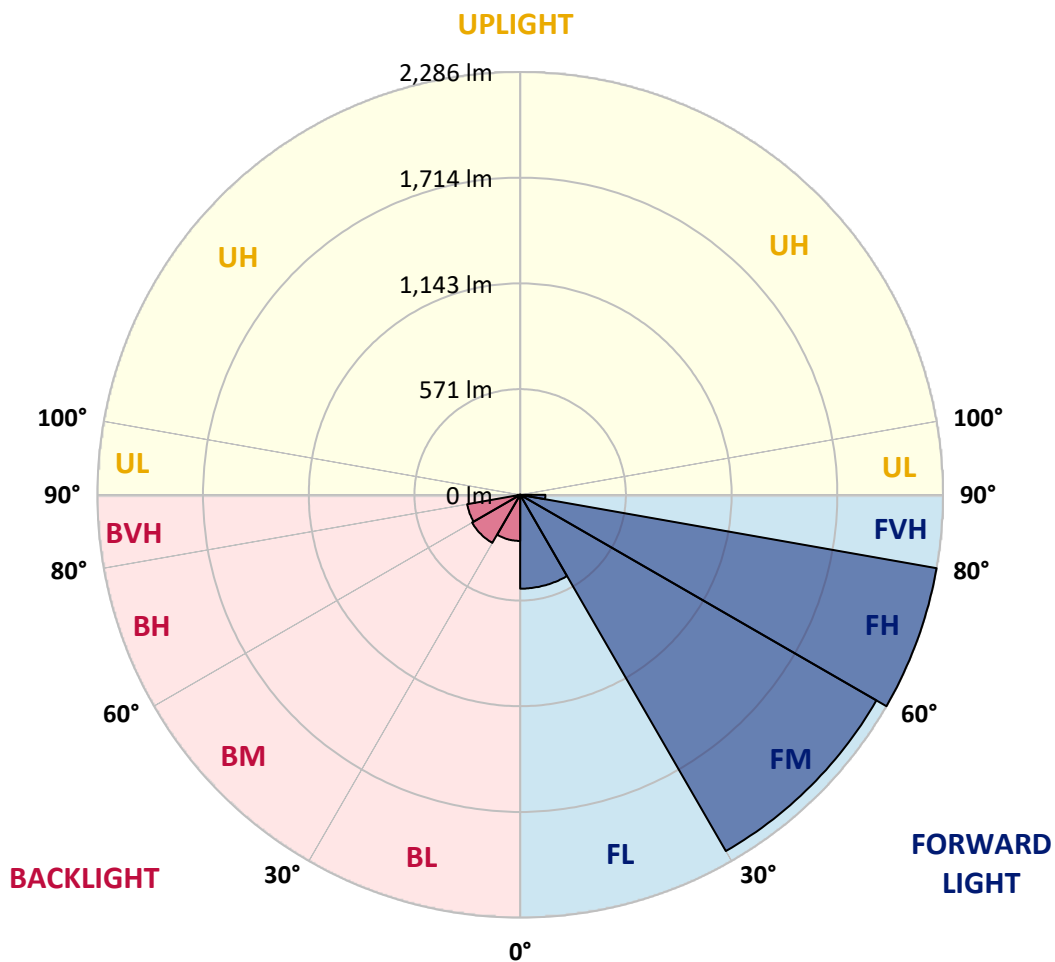
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	507.3	8.4			
FM	(30°-60°)	2223.8	37.0			
FH	(60°-80°)	2286.0	38.0			G2/5000
FVH	(80°-90°)	136.2	2.3			G2/225
BL	(0°-30°)	249.4	4.2	B1/500		
BM	(30°-60°)	300.3	5.0	B1/1000		
BH	(60°-80°)	290.6	4.8	B1/500		G1/500
BVH	(80°-90°)	14.5	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°	1530.9	1530.9	1530.9	1530.9	1530.9	1530.9	1530.9	1530.9	1530.9	1530.9	1530.9
2.5°	1562.3	1565.8	1564.3	1563.5	1566.1	1562.0	1553.6	1551.0	1546.9	1537.3	1521.1
5°	1503.7	1514.1	1513.5	1521.4	1534.4	1537.9	1534.1	1534.7	1527.2	1515.3	1488.3
7.5°	1402.4	1406.7	1409.1	1426.2	1450.0	1469.1	1485.4	1490.6	1487.1	1477.0	1442.1
10°	1297.9	1301.4	1306.9	1326.9	1357.1	1383.5	1414.3	1432.0	1439.5	1437.8	1398.9
12.5°	1208.2	1211.7	1219.0	1241.6	1277.6	1310.1	1354.8	1376.8	1394.8	1405.6	1363.8
15°	1127.8	1135.4	1142.3	1168.5	1208.8	1251.5	1302.0	1329.8	1357.7	1381.8	1332.7
17.5°	1065.1	1072.7	1076.7	1100.5	1143.5	1195.7	1254.9	1287.7	1322.6	1362.0	1302.0
20°	1028.9	1032.3	1030.6	1043.9	1082.5	1138.0	1208.2	1246.2	1288.3	1343.5	1271.2
22.5°	1018.7	1019.0	1012.6	1011.2	1036.1	1082.8	1158.3	1204.4	1256.1	1331.3	1244.8
25°	1043.4	1042.5	1025.1	1010.9	1013.5	1040.8	1110.1	1163.8	1229.1	1328.7	1224.5
27.5°	1098.2	1100.8	1075.0	1048.3	1021.9	1021.0	1073.6	1130.1	1207.1	1340.6	1215.8
30°	1175.1	1179.5	1151.9	1118.0	1068.3	1027.4	1059.3	1110.1	1193.4	1365.2	1214.3
32.5°	1259.3	1263.9	1243.0	1207.3	1142.3	1066.9	1069.2	1111.9	1192.8	1399.8	1224.2
35°	1349.0	1354.2	1343.5	1313.3	1241.0	1139.7	1106.9	1140.0	1211.7	1452.6	1250.6
37.5°	1449.1	1457.2	1460.1	1431.4	1354.2	1235.8	1168.7	1193.4	1254.4	1526.0	1299.1
40°	1593.3	1604.7	1603.8	1562.6	1483.9	1365.5	1264.2	1270.6	1320.8	1624.1	1376.5
42.5°	1869.6	1872.0	1799.7	1710.0	1626.7	1501.9	1376.8	1371.6	1412.5	1748.3	1490.6
45°	2221.1	2211.5	2050.7	1877.5	1775.9	1658.6	1523.4	1497.9	1528.9	1899.8	1633.4
47.5°	2512.8	2490.7	2287.6	2048.4	1933.8	1829.0	1695.5	1650.8	1667.9	2071.6	1818.0
50°	2614.1	2597.5	2429.2	2190.6	2083.3	2036.8	1907.4	1844.1	1848.7	2276.5	2034.2
52.5°	2592.3	2590.0	2477.7	2284.4	2223.1	2255.1	2207.5	2121.9	2076.6	2504.1	2267.5
55°	2540.9	2545.9	2505.2	2393.5	2383.1	2465.8	2599.6	2536.3	2395.5	2733.7	2508.7
57.5°	2362.4	2375.2	2464.6	2530.8	2640.5	2763.5	2915.3	2897.3	2738.9	2981.8	2795.5
60°	1903.3	1932.9	2172.6	2504.1	2905.5	3290.3	3358.2	3316.4	3093.0	3289.7	3174.2
62.5°	1333.6	1364.4	1649.4	2168.0	2861.9	3885.3	4150.0	3969.7	3601.4	3743.4	3664.4
65°	714.0	728.8	946.4	1504.2	2416.1	4008.0	5307.1	5032.8	4406.5	4302.6	4083.8
67.5°	393.8	402.0	485.3	759.5	1547.5	3529.5	6044.3	6251.5	5412.7	4675.0	4007.5
69°	356.1	363.7	418.2	575.2	1035.5	2918.2	5972.3	6572.8	5853.9	4638.1	3725.4
70°	348.3	355.2	404.3	530.2	838.2	2405.4	5731.1	6490.6	5958.9	4506.1	3479.2
72.5°	313.4	321.0	368.6	476.3	716.3	1199.2	4539.7	5487.9	5410.1	3907.0	2639.0
75°	292.3	299.2	379.9	466.4	685.8	758.9	2992.8	4044.6	3977.0	2733.1	1423.0
77.5°	125.1	124.5	176.2	394.7	696.0	734.9	1608.1	2526.7	2305.3	1168.2	408.6
80°	83.6	82.1	83.6	116.1	638.2	738.9	842.5	1282.5	968.8	297.8	201.4
82.5°	72.0	70.8	73.4	70.8	224.3	843.4	716.3	682.0	460.6	169.2	99.8
85°	48.5	46.4	63.3	63.6	105.9	749.4	806.8	576.1	372.7	100.4	49.3
87.5°	23.2	22.6	36.9	45.0	62.1	304.4	905.2	590.3	375.8	51.4	23.5
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°	1530.9	1530.9	1530.9	1530.9	1530.9	1530.9	1530.9	1530.9	1530.9	1530.9	1530.9
2.5°	1516.1	1504.2	1492.6	1478.7	1464.2	1447.9	1439.8	1431.7	1429.7	1427.3	1419.2
5°	1474.4	1457.5	1428.5	1396.6	1362.9	1330.1	1305.2	1289.5	1277.6	1271.5	1260.7
7.5°	1420.4	1395.7	1344.9	1289.8	1233.2	1181.5	1136.8	1108.7	1082.0	1069.5	1055.3
10°	1369.0	1332.1	1253.2	1171.9	1090.7	1012.6	939.2	887.2	841.1	815.2	797.0
12.5°	1324.9	1274.4	1165.0	1055.0	943.5	832.4	722.4	635.9	563.6	525.6	506.2
15°	1281.9	1221.0	1081.1	941.5	798.4	647.2	502.7	404.6	344.8	321.0	312.9
17.5°	1243.0	1165.0	996.9	827.1	648.7	465.8	337.8	283.8	260.9	253.1	250.5
20°	1201.0	1108.4	909.6	707.6	492.5	325.6	263.8	240.0	230.7	228.4	227.2
22.5°	1160.3	1052.7	826.0	579.6	353.8	251.3	226.7	216.8	215.3	217.4	217.4
25°	1125.8	1002.7	735.7	445.8	259.8	211.6	202.9	200.5	206.1	213.6	215.1
27.5°	1100.0	961.8	639.7	329.1	206.9	184.0	183.7	187.5	201.1	215.6	218.5
30°	1082.3	922.9	536.9	237.4	173.6	161.9	166.6	174.7	194.7	215.3	220.9
32.5°	1073.3	894.2	429.8	183.7	148.6	142.2	150.0	159.9	179.7	198.8	206.1
35°	1080.2	873.0	328.8	153.2	131.2	126.2	134.4	144.0	155.6	163.7	169.2
37.5°	1106.3	864.6	248.1	137.3	119.3	114.6	121.0	126.5	131.2	133.5	136.1
40°	1162.7	873.6	198.8	129.2	112.6	106.8	109.4	111.4	114.3	116.7	117.8
42.5°	1245.7	900.6	178.2	126.0	109.1	100.7	100.1	101.0	104.8	109.1	110.0
45°	1361.7	948.2	176.7	128.0	107.4	95.8	93.2	94.3	100.1	106.8	108.0
47.5°	1510.1	1020.7	188.4	134.1	108.8	93.2	88.8	90.3	97.5	106.5	108.0
50°	1689.7	1122.0	207.8	143.1	115.2	93.7	87.4	88.2	95.8	105.6	107.1
52.5°	1901.9	1265.7	229.0	151.8	121.9	97.5	88.5	86.5	93.5	102.2	103.9
55°	2137.8	1450.0	250.8	159.6	125.4	102.2	90.8	84.2	89.1	96.4	97.8
57.5°	2427.5	1707.7	288.5	167.2	127.7	105.4	93.2	81.8	83.6	88.8	90.0
60°	2819.6	2072.2	354.9	179.7	132.9	106.5	92.9	79.8	78.1	81.0	81.6
62.5°	3289.4	2468.1	410.4	195.3	141.6	107.4	91.1	78.4	73.4	73.4	74.0
65°	3568.3	2574.0	379.6	208.4	148.9	106.5	89.1	76.9	69.9	66.8	67.0
67.5°	3331.8	2263.8	325.3	211.0	148.6	102.5	85.9	74.3	66.5	61.5	61.2
69°	3035.5	1953.2	301.0	204.0	141.6	97.2	81.8	71.4	63.8	58.6	58.3
70°	2796.6	1763.7	285.0	196.5	134.1	93.5	78.7	68.8	61.8	56.9	56.3
72.5°	2033.3	1155.7	243.5	168.9	110.6	78.4	67.9	60.4	55.1	52.2	51.7
75°	1016.1	551.1	197.6	137.0	84.7	62.7	55.7	50.5	47.9	47.3	47.0
77.5°	333.8	252.5	141.3	102.2	63.0	49.0	45.0	41.2	40.6	42.4	41.8
80°	183.4	146.9	89.7	67.6	43.0	36.0	35.4	33.4	34.2	37.1	36.6
82.5°	93.5	76.3	55.4	40.6	29.0	25.8	28.2	27.0	28.2	30.8	30.5
85°	46.1	41.8	35.1	24.7	19.2	16.5	20.0	20.9	21.5	23.5	23.5
87.5°	26.7	24.7	18.6	11.6	9.6	8.7	11.6	11.3	13.4	14.5	14.2
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)