

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: P191030

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191030
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-02-LED-E1-SL2-600-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 4000K, 615mA LIGHTSQUARES 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: 6798.5 lumens
Efficiency: N/A
Efficacy: 103.0 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

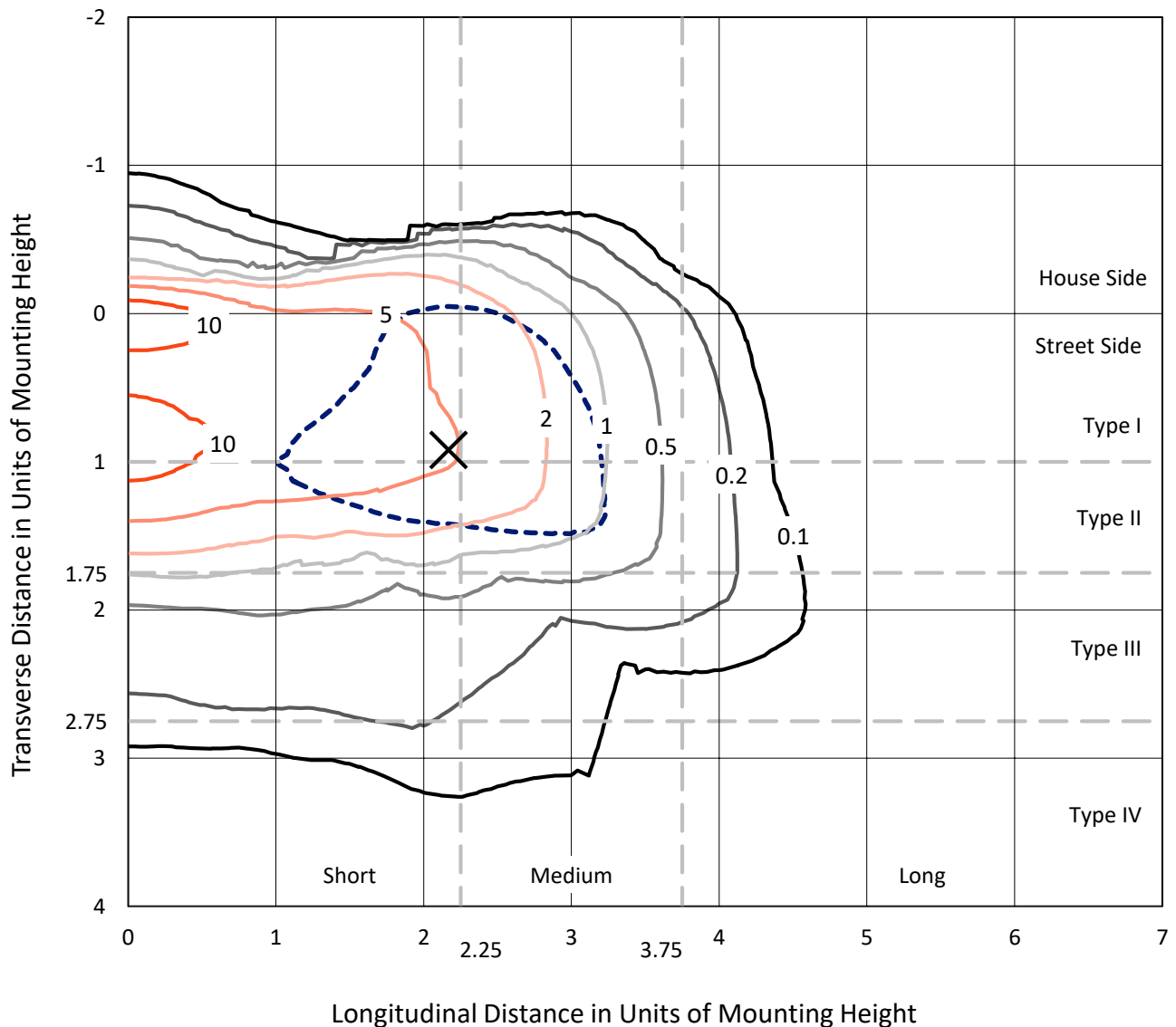


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Iso-Footcandle Lines of Horizontal Illumination

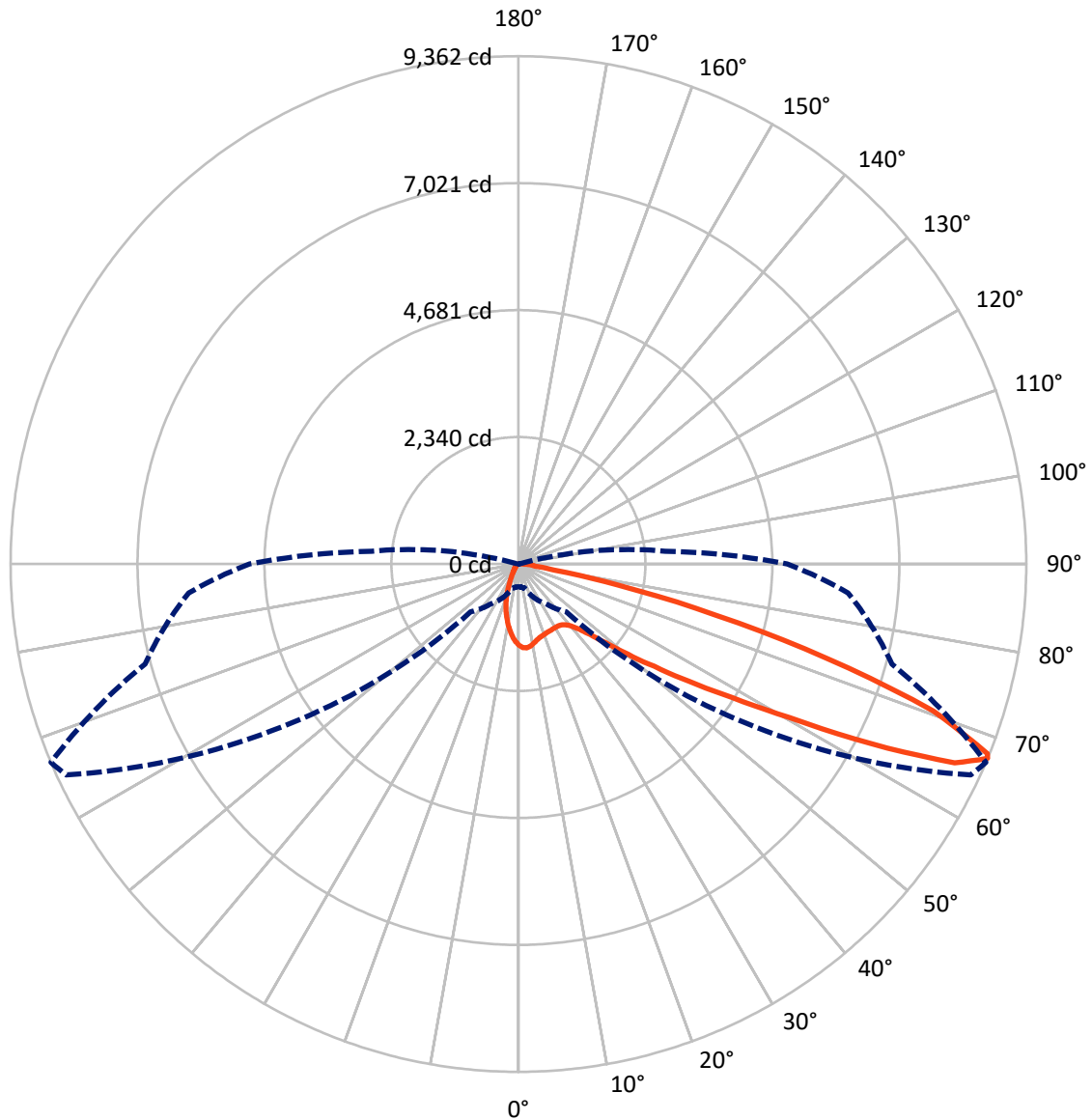
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 15 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	705.9	0.0	705.9
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	6092.6	0.0	6092.6
	% Fixture	89.6	0.0	89.6
Total	Lumens	6798.5	0.0	6798.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	122.0	1.8
10°-20°	259.7	3.8
20°-30°	377.5	5.6
30°-40°	589.0	8.7
40°-50°	1043.3	15.3
50°-60°	1650.9	24.3
60°-70°	1890.9	27.8
70°-80°	784.3	11.5
80°-90°	81.0	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°	6798.5	100.0
0°-180°	6798.5	100.0

Coefficient of Utilization



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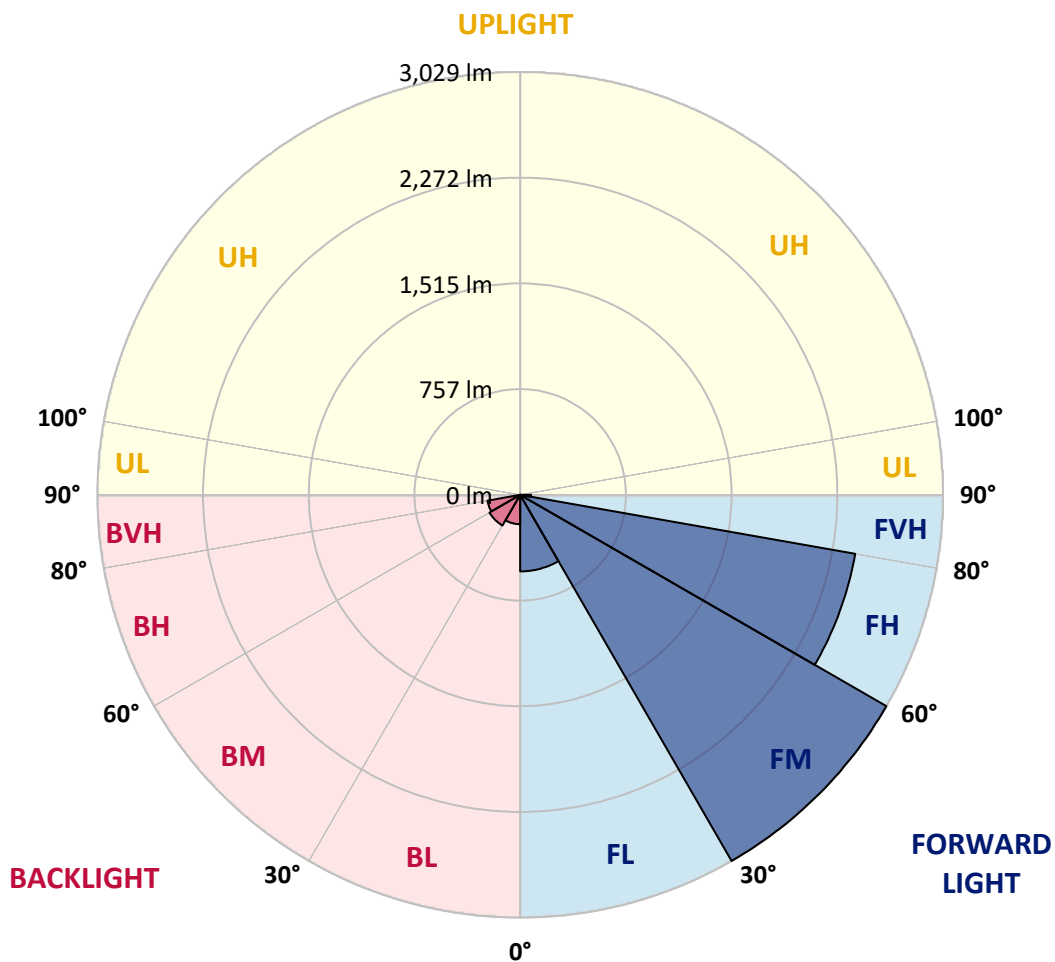
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	548.5	8.1			
FM	(30°-60°)	3029.4	44.6			
FH	(60°-80°)	2437.3	35.9			G2/5000
FVH	(80°-90°)	77.4	1.1			G1/100
BL	(0°-30°)	210.6	3.1	B1/500		
BM	(30°-60°)	253.7	3.7	B1/1000		
BH	(60°-80°)	237.9	3.5	B1/500		G1/500
BVH	(80°-90°)	3.7	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°	1499.3	1499.3	1499.3	1499.3	1499.3	1499.3	1499.3	1499.3	1499.3	1499.3	1499.3
2.5°	1550.1	1553.2	1552.8	1555.2	1560.8	1561.2	1555.6	1545.0	1542.5	1528.7	1504.5
5°	1429.6	1438.7	1444.2	1466.8	1492.2	1522.8	1545.7	1554.1	1552.8	1542.9	1506.5
7.5°	1291.9	1301.1	1307.4	1333.9	1367.7	1420.1	1479.9	1529.1	1533.4	1544.1	1504.9
10°	1200.3	1202.0	1210.7	1236.0	1271.3	1324.8	1396.2	1482.3	1495.3	1534.6	1500.9
12.5°	1125.0	1126.2	1137.7	1165.0	1202.7	1256.6	1331.6	1431.1	1451.4	1522.8	1500.2
15°	1071.4	1075.8	1086.2	1114.7	1154.7	1208.3	1285.2	1393.5	1417.6	1518.4	1507.2
17.5°	1053.6	1058.3	1061.5	1082.2	1118.6	1171.0	1249.9	1368.9	1396.2	1520.7	1521.1
20°	1072.3	1075.8	1068.7	1073.8	1096.4	1143.2	1220.2	1347.8	1380.4	1523.5	1539.0
22.5°	1141.6	1143.2	1123.8	1101.2	1097.2	1123.0	1196.8	1331.2	1366.0	1531.1	1560.0
25°	1260.6	1257.8	1226.1	1177.3	1131.4	1119.4	1182.8	1320.8	1359.0	1539.0	1581.8
27.5°	1404.2	1408.1	1364.5	1293.5	1205.9	1143.2	1180.9	1316.5	1355.8	1544.6	1600.8
30°	1578.6	1584.1	1534.2	1445.0	1319.3	1202.0	1199.1	1315.7	1353.8	1541.0	1602.5
32.5°	1756.7	1763.5	1724.2	1632.1	1470.8	1300.3	1240.4	1324.4	1357.8	1528.7	1593.3
35°	1943.1	1952.6	1926.4	1847.4	1676.2	1442.3	1313.0	1351.0	1376.4	1527.5	1584.1
37.5°	2200.4	2209.2	2160.0	2076.3	1924.8	1632.5	1429.6	1401.0	1420.4	1546.5	1586.6
40°	2584.7	2583.5	2456.6	2328.5	2198.0	1874.5	1593.3	1491.4	1501.3	1604.0	1616.0
42.5°	3003.4	3001.4	2813.8	2619.2	2501.4	2172.2	1808.7	1647.7	1640.9	1709.9	1692.1
45°	3326.2	3325.8	3172.8	2953.5	2866.6	2514.1	2087.0	1864.9	1854.6	1882.0	1832.4
47.5°	3463.8	3466.2	3389.2	3235.0	3271.5	2976.5	2437.9	2179.8	2164.4	2153.2	2077.9
50°	3356.7	3361.5	3367.9	3337.7	3568.5	3597.8	2908.7	2623.6	2616.0	2566.4	2448.6
52.5°	3007.0	3031.2	3105.7	3201.3	3671.6	4194.2	3646.6	3174.7	3134.3	3081.5	2951.8
55°	2417.7	2444.2	2585.8	2817.8	3518.1	4586.0	4680.8	3885.4	3818.0	3660.5	3473.3
57.5°	1600.1	1641.3	1846.7	2141.8	3072.4	4649.1	5712.6	4871.5	4636.7	4205.8	3994.7
60°	881.5	921.2	1144.1	1411.3	2219.1	4337.4	6406.5	6155.5	5740.7	4815.2	4628.0
62.5°	542.9	564.3	728.9	977.4	1330.8	3423.3	6550.1	7769.1	7288.8	5599.9	5393.0
65°	432.2	441.3	521.8	799.0	954.1	2036.3	6086.6	8999.1	8838.9	6550.1	6077.8
67°	419.5	423.1	461.1	686.0	899.4	1248.3	5099.1	9199.4	9361.9	7125.1	6099.2
67.5°	422.3	426.3	462.4	654.7	897.7	1147.2	4758.9	9120.5	9325.9	7170.7	6004.4
70°	407.2	419.5	529.4	654.3	853.8	953.3	2849.9	7902.3	8116.0	6662.7	5094.8
72.5°	144.3	145.2	228.8	529.4	928.3	963.6	1431.1	5793.1	5951.3	5096.8	3673.2
75°	85.6	72.9	76.1	150.7	887.1	935.8	825.6	3701.8	3760.8	2920.5	1860.1
77.5°	59.1	51.6	53.1	66.6	337.9	922.8	655.9	1930.4	1867.3	1024.3	396.2
80°	33.7	29.8	31.7	58.3	123.0	860.9	618.6	782.8	667.4	173.7	109.5
82.5°	17.8	15.0	18.2	48.0	85.6	536.5	619.8	378.3	299.8	58.7	74.6
85°	6.3	5.1	8.7	32.9	57.1	164.6	574.6	318.0	249.8	28.5	56.7
87.5°	1.2	1.2	3.6	13.5	23.0	50.3	339.8	188.7	126.5	17.1	38.9
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°	1499.3	1499.3	1499.3	1499.3	1499.3	1499.3	1499.3	1499.3	1499.3	1499.3	1499.3
2.5°	1494.5	1477.6	1454.5	1426.4	1393.1	1363.7	1341.9	1319.3	1314.5	1306.6	1305.4
5°	1484.6	1455.4	1398.2	1332.8	1263.0	1199.9	1148.8	1103.2	1083.0	1065.5	1063.6
7.5°	1470.0	1426.0	1328.8	1223.3	1114.3	1015.2	931.1	871.6	816.9	790.7	786.8
10°	1452.9	1389.9	1250.7	1104.4	953.7	813.7	688.8	584.1	520.7	483.0	478.2
12.5°	1437.0	1354.6	1171.0	981.0	780.8	593.6	433.0	333.1	266.5	239.5	236.3
15°	1429.6	1326.1	1096.4	855.0	600.0	377.9	236.7	183.2	161.4	155.1	154.7
17.5°	1428.8	1301.8	1023.5	724.5	420.3	219.7	154.3	140.8	136.5	134.8	134.8
20°	1428.3	1278.9	950.5	589.2	266.9	146.3	128.5	125.3	122.1	120.2	120.2
22.5°	1432.7	1258.2	874.4	451.2	168.2	118.6	113.0	109.9	105.9	103.1	102.7
25°	1437.0	1242.4	796.7	321.2	121.7	103.1	97.6	93.2	87.7	84.1	83.7
27.5°	1437.9	1222.5	713.4	214.9	101.9	90.0	82.9	76.1	69.8	66.2	65.8
30°	1426.0	1189.2	621.0	145.2	90.0	78.2	68.6	61.5	55.5	52.8	52.8
32.5°	1402.6	1148.0	519.5	109.5	80.1	67.0	56.7	49.9	46.0	44.8	44.4
35°	1381.6	1103.6	415.2	92.8	71.8	56.7	46.4	42.0	39.7	39.3	38.9
37.5°	1369.2	1067.9	317.2	84.1	63.8	47.6	39.3	36.1	34.9	34.1	34.5
40°	1378.7	1038.2	234.4	76.9	56.0	39.7	33.3	31.7	30.5	30.2	30.2
42.5°	1420.4	1033.0	174.1	70.6	48.4	32.9	28.9	27.7	27.0	26.6	27.0
45°	1529.8	1064.7	135.2	64.7	40.8	27.7	24.6	24.1	23.8	23.8	23.8
47.5°	1694.4	1130.2	112.6	57.9	34.1	23.8	21.4	21.0	20.7	21.0	21.0
50°	1973.2	1249.9	100.8	51.1	28.1	20.3	18.2	18.2	18.2	18.2	18.6
52.5°	2397.1	1485.4	92.8	44.4	23.0	17.1	15.4	15.4	15.9	15.9	16.3
55°	2869.4	1797.9	85.6	37.6	19.4	14.3	12.7	13.1	13.5	13.9	13.9
57.5°	3381.7	2144.1	79.7	30.9	16.7	11.5	10.7	11.2	11.5	12.3	12.3
60°	3999.9	2518.8	71.0	24.1	13.9	9.1	8.3	9.1	10.3	11.2	11.5
62.5°	4678.8	2881.2	59.8	19.0	11.5	7.2	6.8	8.3	9.9	10.7	11.2
65°	5142.8	2995.1	46.0	15.4	8.7	5.1	5.5	7.6	9.5	10.7	10.7
67°	4954.8	2715.5	37.6	13.1	7.2	4.0	5.1	7.6	9.5	10.3	10.7
67.5°	4824.3	2606.1	36.1	12.7	6.8	4.0	5.1	7.6	9.5	10.7	10.7
70°	3925.4	1957.7	30.2	9.5	5.5	3.6	4.4	7.2	9.1	10.3	10.3
72.5°	2727.4	1207.1	27.0	6.8	4.8	3.2	4.0	6.8	8.7	9.9	10.3
75°	1296.7	437.0	23.0	5.1	4.4	2.8	3.6	6.8	8.7	9.9	9.9
77.5°	264.5	101.5	18.6	4.4	3.6	2.8	3.2	6.3	8.3	9.5	9.5
80°	86.8	39.3	13.9	4.0	3.6	2.8	3.2	5.9	8.3	9.1	9.5
82.5°	62.6	19.8	9.1	4.0	3.6	2.8	2.8	5.9	8.0	9.1	9.1
85°	48.0	13.9	5.9	4.0	3.6	2.8	2.8	5.5	7.6	8.7	8.7
87.5°	31.7	5.5	4.8	4.0	3.6	2.8	2.8	5.5	7.2	8.3	8.7
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)