

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: P193571

Luminaire Tested: **GLEON-AF-03-LED-E1-SL2-8030-600-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193571
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-03-LED-E1-SL2-8030-600-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3000K, 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: 8092 lumens
Efficiency: N/A
Efficacy: 84.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G2

Input Watts (W): 96
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

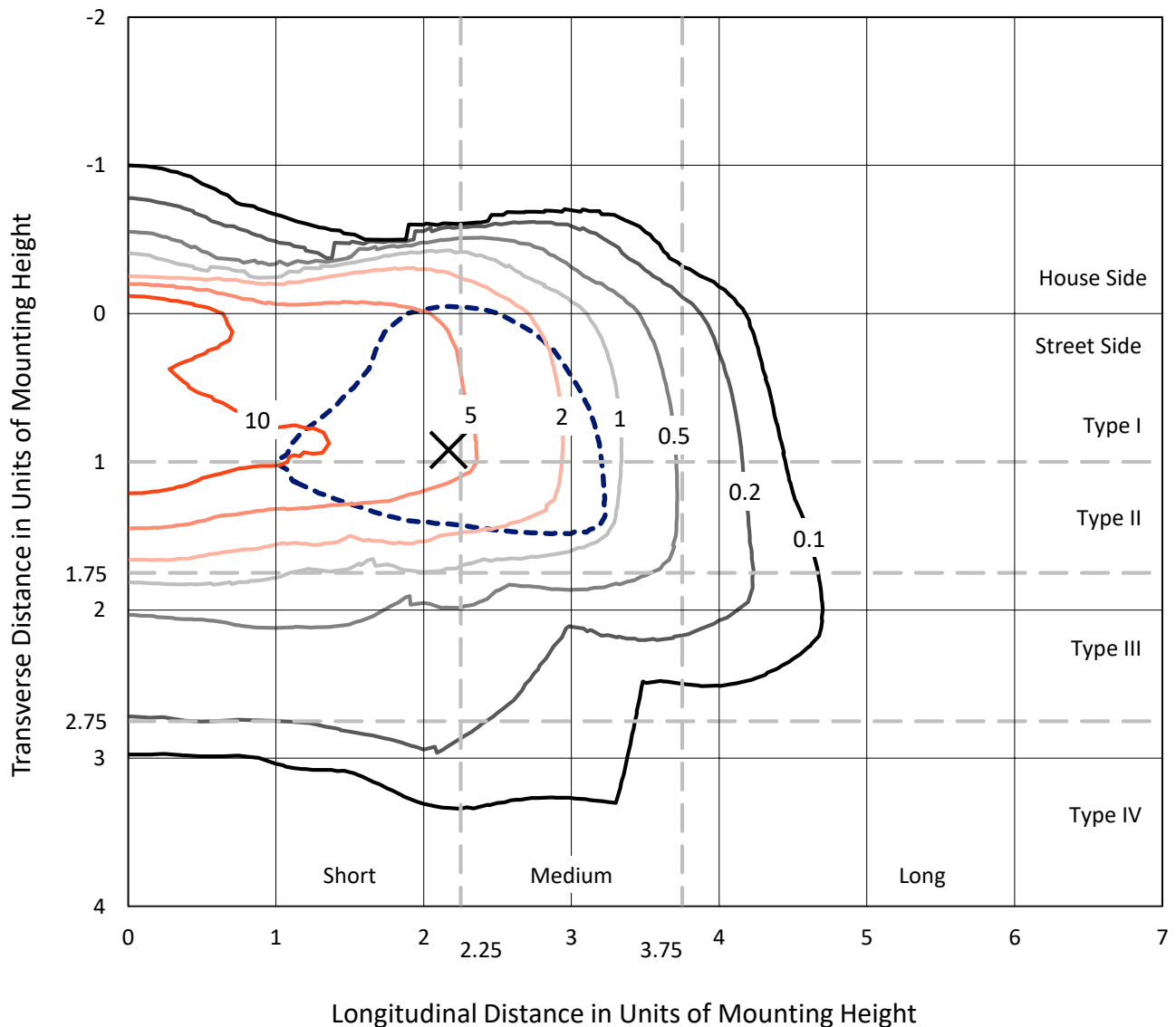


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Iso-Footcandle Lines of Horizontal Illumination

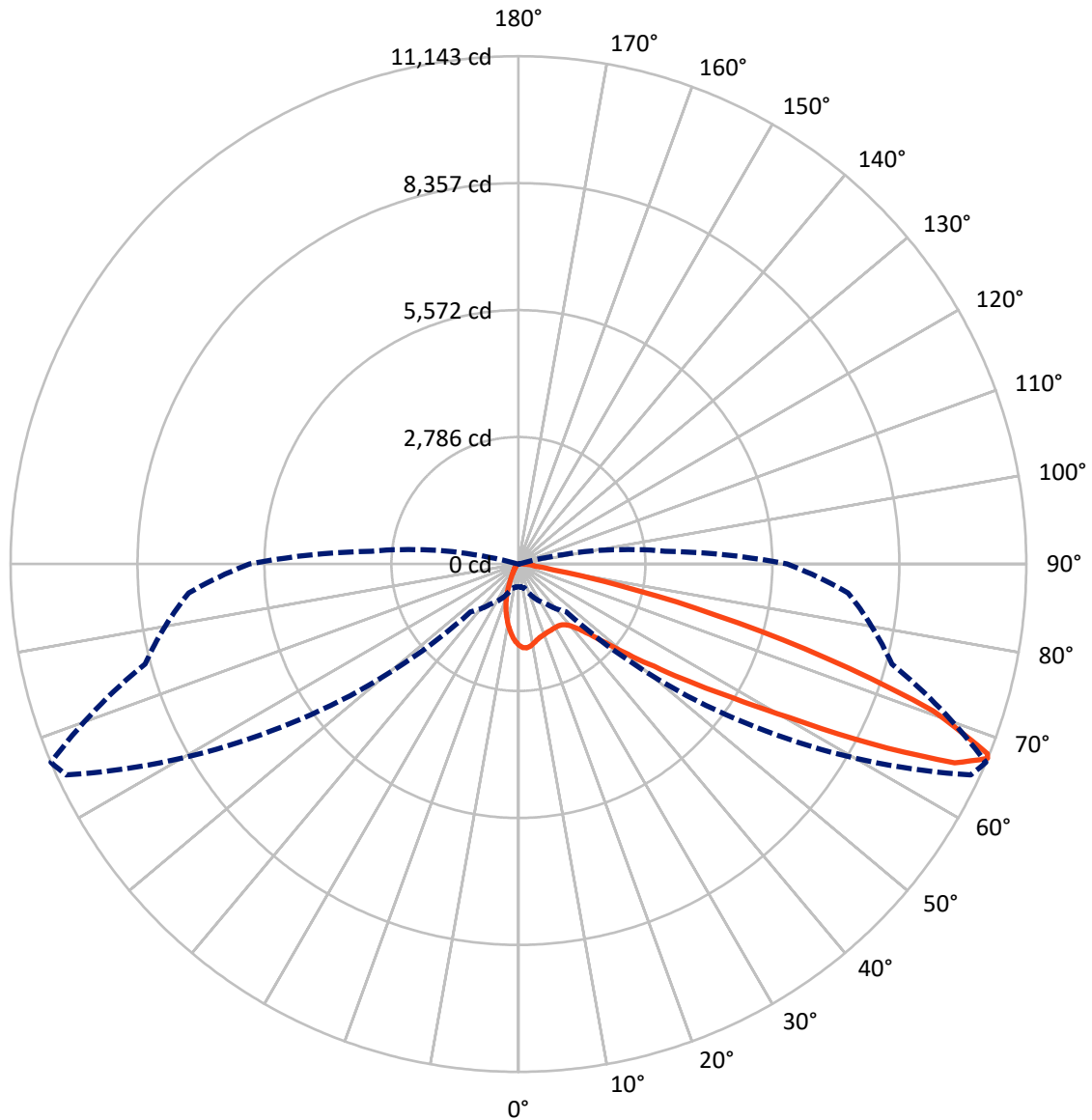
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 17.8 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	840.2	0.0	840.2
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	7251.8	0.0	7251.8
	% Fixture	89.6	0.0	89.6
Total	Lumens	8092.0	0.0	8092.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	145.2	1.8
10°-20°	309.1	3.8
20°-30°	449.3	5.6
30°-40°	701.0	8.7
40°-50°	1241.8	15.3
50°-60°	1965.0	24.3
60°-70°	2250.6	27.8
70°-80°	933.5	11.5
80°-90°	96.4	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°	8092.0	100.0
0°-180°	8092.0	100.0



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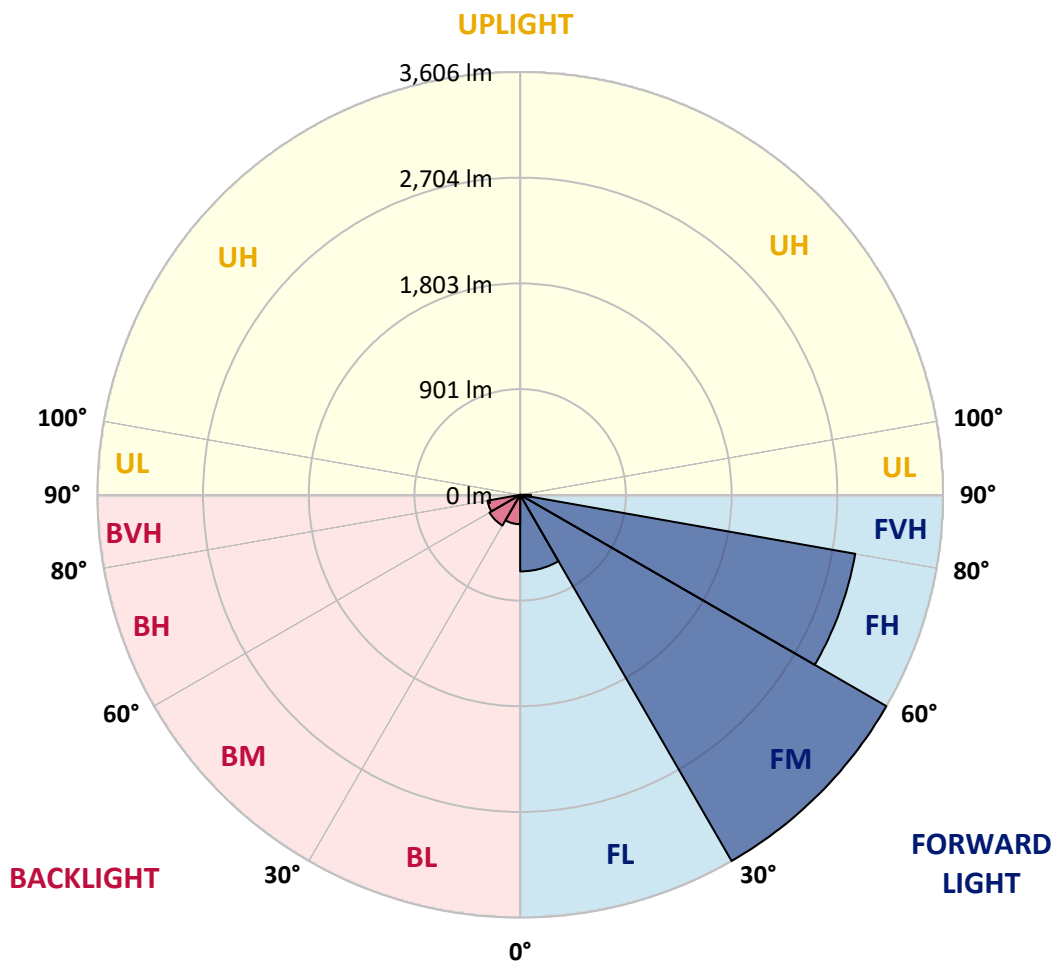
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	652.9	8.1			
FM (30°-60°)	3605.8	44.6			
FH (60°-80°)	2901.0	35.9			G2/5000
FVH (80°-90°)	92.1	1.1			G1/100
BL (0°-30°)	250.7	3.1	B1/500		
BM (30°-60°)	302.0	3.7	B1/1000		
BH (60°-80°)	283.2	3.5	B1/500		G1/500
BVH (80°-90°)	4.3	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°	1784.6	1784.6	1784.6	1784.6	1784.6	1784.6	1784.6	1784.6	1784.6	1784.6	1784.6
2.5°	1845.0	1848.8	1848.3	1851.1	1857.7	1858.2	1851.6	1838.9	1836.0	1819.5	1790.7
5°	1701.5	1712.4	1719.0	1745.9	1776.1	1812.4	1839.8	1849.7	1848.3	1836.5	1793.1
7.5°	1537.7	1548.6	1556.1	1587.8	1627.9	1690.2	1761.5	1820.0	1825.2	1837.9	1791.2
10°	1428.7	1430.6	1441.0	1471.2	1513.2	1576.9	1661.9	1764.3	1779.9	1826.6	1786.5
12.5°	1339.0	1340.4	1354.1	1386.7	1431.5	1495.7	1584.9	1703.4	1727.5	1812.4	1785.5
15°	1275.3	1280.5	1292.8	1326.8	1374.4	1438.1	1529.7	1658.6	1687.4	1807.2	1794.0
17.5°	1254.1	1259.7	1263.5	1288.1	1331.5	1393.8	1487.7	1629.3	1661.9	1810.1	1810.5
20°	1276.3	1280.5	1272.0	1278.1	1305.0	1360.7	1452.3	1604.3	1643.0	1813.4	1831.8
22.5°	1358.9	1360.7	1337.6	1310.7	1306.0	1336.7	1424.5	1584.5	1626.0	1822.3	1856.8
25°	1500.4	1497.1	1459.4	1401.3	1346.6	1332.4	1407.9	1572.2	1617.5	1831.8	1882.8
27.5°	1671.3	1676.0	1624.1	1539.6	1435.3	1360.7	1405.6	1567.0	1613.7	1838.4	1905.4
30°	1879.0	1885.6	1826.1	1719.9	1570.3	1430.6	1427.3	1566.1	1611.4	1834.1	1907.3
32.5°	2090.9	2098.9	2052.2	1942.7	1750.6	1547.6	1476.4	1576.4	1616.1	1819.5	1896.4
35°	2312.7	2324.1	2292.9	2199.0	1995.1	1716.6	1562.8	1608.1	1638.3	1818.1	1885.6
37.5°	2619.1	2629.4	2570.9	2471.3	2291.0	1943.2	1701.5	1667.5	1690.7	1840.8	1888.4
40°	3076.4	3075.0	2924.0	2771.5	2616.2	2231.1	1896.4	1775.1	1786.9	1909.2	1923.3
42.5°	3574.8	3572.5	3349.2	3117.5	2977.3	2585.5	2152.7	1961.1	1953.1	2035.2	2014.0
45°	3959.0	3958.6	3776.4	3515.4	3412.0	2992.4	2484.1	2219.8	2207.5	2240.1	2181.1
47.5°	4122.8	4125.6	4034.1	3850.5	3893.9	3542.7	2901.8	2594.5	2576.1	2562.9	2473.2
50°	3995.4	4001.0	4008.6	3972.7	4247.4	4282.3	3462.0	3122.7	3113.7	3054.7	2914.5
52.5°	3579.1	3607.9	3696.6	3810.4	4370.1	4992.2	4340.4	3778.7	3730.6	3667.8	3513.5
55°	2877.7	2909.3	3077.8	3353.9	4187.5	5458.5	5571.3	4624.5	4544.3	4356.9	4134.1
57.5°	1904.5	1953.6	2198.0	2549.2	3657.0	5533.6	6799.5	5798.4	5519.0	5005.9	4754.8
60°	1049.2	1096.4	1361.7	1679.8	2641.2	5162.6	7625.4	7326.7	6833.0	5731.3	5508.6
62.5°	646.2	671.6	867.5	1163.4	1584.0	4074.7	7796.3	9247.2	8675.6	6665.4	6419.0
65°	514.5	525.3	621.1	951.1	1135.6	2423.7	7244.5	10711.3	10520.6	7796.3	7234.2
67°	499.4	503.6	548.9	816.5	1070.5	1485.8	6069.3	10949.6	11143.2	8480.7	7259.6
67.5°	502.7	507.4	550.3	779.3	1068.6	1365.5	5664.3	10855.7	11100.2	8535.0	7146.8
70°	484.7	499.4	630.1	778.8	1016.2	1134.7	3392.2	9405.8	9660.2	7930.3	6064.1
72.5°	171.8	172.7	272.3	630.1	1104.9	1146.9	1703.4	6895.3	7083.6	6066.5	4372.0
75°	101.9	86.8	90.6	179.4	1055.8	1113.9	982.7	4406.0	4476.3	3476.2	2214.1
77.5°	70.3	61.4	63.2	79.3	402.1	1098.3	780.7	2297.6	2222.6	1219.1	471.5
80°	40.1	35.4	37.8	69.4	146.3	1024.7	736.3	931.7	794.4	206.7	130.3
82.5°	21.2	17.9	21.7	57.1	101.9	638.6	737.7	450.3	356.8	69.9	88.7
85°	7.6	6.1	10.4	39.2	68.0	195.9	683.9	378.5	297.4	34.0	67.5
87.5°	1.4	1.4	4.2	16.0	27.4	59.9	404.5	224.7	150.6	20.3	46.3
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°	1784.6	1784.6	1784.6	1784.6	1784.6	1784.6	1784.6	1784.6	1784.6	1784.6	1784.6
2.5°	1778.9	1758.6	1731.3	1697.7	1658.1	1623.2	1597.2	1570.3	1564.6	1555.2	1553.8
5°	1767.1	1732.2	1664.2	1586.4	1503.3	1428.2	1367.3	1313.1	1289.0	1268.2	1265.9
7.5°	1749.7	1697.3	1581.6	1456.1	1326.3	1208.3	1108.2	1037.4	972.3	941.1	936.4
10°	1729.4	1654.3	1488.6	1314.5	1135.1	968.5	819.8	695.2	619.7	574.9	569.2
12.5°	1710.5	1612.3	1393.8	1167.7	929.3	706.6	515.4	396.5	317.2	285.1	281.3
15°	1701.5	1578.3	1305.0	1017.6	714.1	449.8	281.8	218.1	192.1	184.5	184.1
17.5°	1700.6	1549.5	1218.2	862.3	500.3	261.5	183.6	167.6	162.4	160.5	160.5
20°	1700.1	1522.2	1131.4	701.4	317.6	174.2	152.9	149.1	145.4	143.0	143.0
22.5°	1705.3	1497.6	1040.7	537.1	200.1	141.1	134.5	130.7	126.0	122.7	122.2
25°	1710.5	1478.7	948.2	382.3	144.9	122.7	116.1	110.9	104.3	100.1	99.6
27.5°	1711.4	1455.1	849.1	255.8	121.3	107.1	98.6	90.6	83.1	78.8	78.3
30°	1697.3	1415.5	739.1	172.7	107.1	93.0	81.7	73.2	66.1	62.8	62.8
32.5°	1669.4	1366.4	618.3	130.3	95.3	79.8	67.5	59.5	54.8	53.3	52.9
35°	1644.4	1313.5	494.2	110.4	85.4	67.5	55.2	50.0	47.2	46.7	46.3
37.5°	1629.8	1271.1	377.6	100.1	76.0	56.6	46.7	43.0	41.5	40.6	41.1
40°	1641.1	1235.7	278.9	91.6	66.6	47.2	39.6	37.8	36.3	35.9	35.9
42.5°	1690.7	1229.5	207.2	84.0	57.6	39.2	34.5	33.0	32.1	31.6	32.1
45°	1820.9	1267.3	160.9	76.9	48.6	33.0	29.3	28.8	28.3	28.3	28.3
47.5°	2016.8	1345.2	134.0	68.9	40.6	28.3	25.5	25.0	24.5	25.0	25.0
50°	2348.6	1487.7	119.9	60.9	33.5	24.1	21.7	21.7	21.7	21.7	22.2
52.5°	2853.2	1768.1	110.4	52.9	27.4	20.3	18.4	18.4	18.9	18.9	19.4
55°	3415.3	2140.0	101.9	44.8	23.1	17.0	15.1	15.6	16.0	16.5	16.5
57.5°	4025.1	2552.0	94.9	36.8	19.8	13.7	12.7	13.2	13.7	14.6	14.6
60°	4760.9	2998.1	84.5	28.8	16.5	10.9	9.9	10.9	12.3	13.2	13.7
62.5°	5569.0	3429.5	71.3	22.7	13.7	8.5	8.0	9.9	11.8	12.7	13.2
65°	6121.2	3564.9	54.8	18.4	10.4	6.1	6.6	9.0	11.3	12.7	12.7
67°	5897.5	3232.2	44.8	15.6	8.5	4.7	6.1	9.0	11.3	12.3	12.7
67.5°	5742.2	3101.9	43.0	15.1	8.0	4.7	6.1	9.0	11.3	12.7	12.7
70°	4672.2	2330.2	35.9	11.3	6.6	4.2	5.2	8.5	10.9	12.3	12.3
72.5°	3246.3	1436.7	32.1	8.0	5.7	3.8	4.7	8.0	10.4	11.8	12.3
75°	1543.4	520.1	27.4	6.1	5.2	3.3	4.2	8.0	10.4	11.8	11.8
77.5°	314.8	120.8	22.2	5.2	4.2	3.3	3.8	7.6	9.9	11.3	11.3
80°	103.4	46.7	16.5	4.7	4.2	3.3	3.8	7.1	9.9	10.9	11.3
82.5°	74.6	23.6	10.9	4.7	4.2	3.3	3.3	7.1	9.4	10.9	10.9
85°	57.1	16.5	7.1	4.7	4.2	3.3	3.3	6.6	9.0	10.4	10.4
87.5°	37.8	6.6	5.7	4.7	4.2	3.3	3.3	6.6	8.5	9.9	10.4
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)