

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: P269147

Luminaire Tested: **GLEON-AF-03-LED-E1-SL2-7027-600-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269147
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-SL2-7027-600-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 2700K, 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: 8616.4 lumens
Efficiency: N/A
Efficacy: 89.8 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

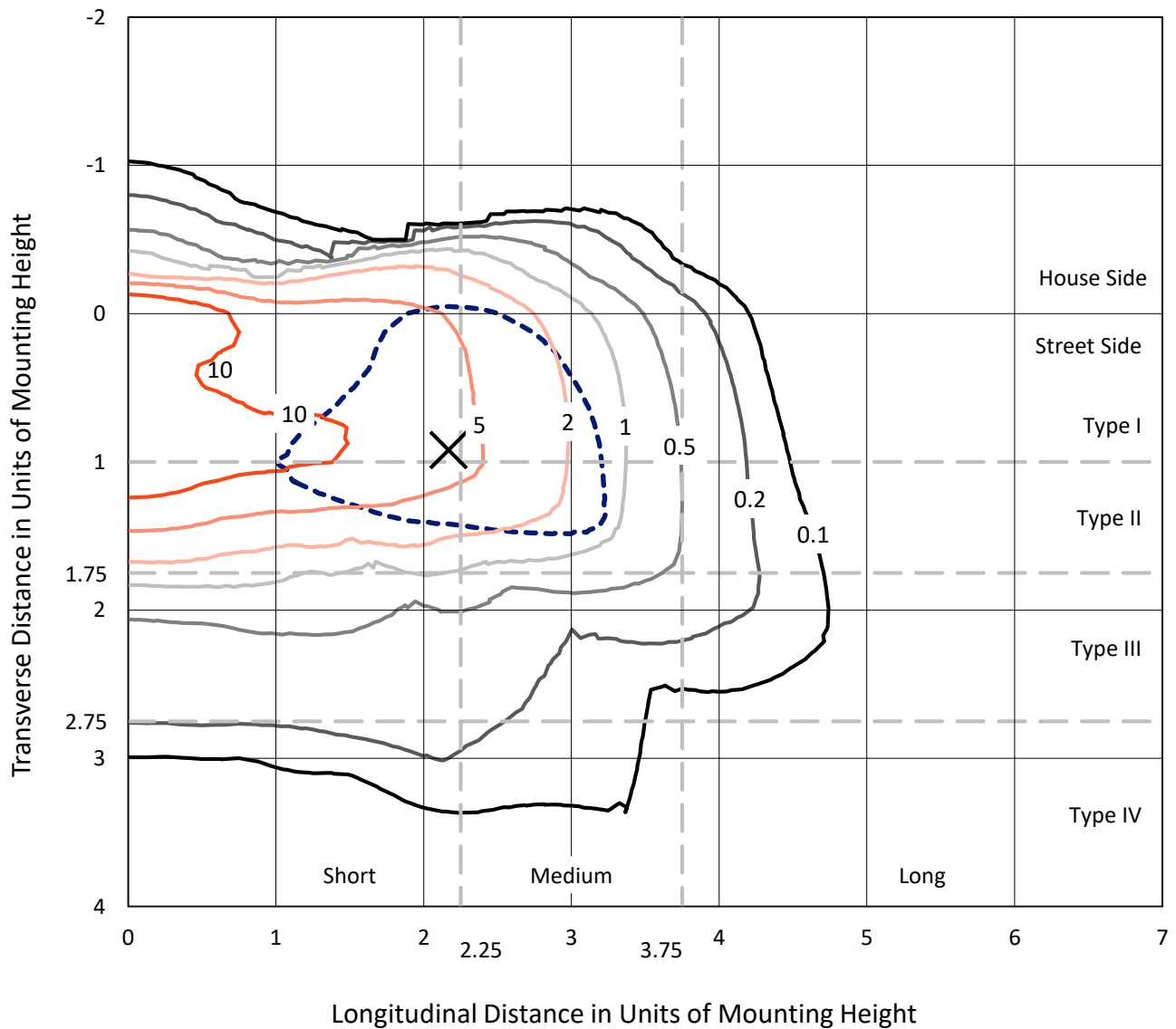


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

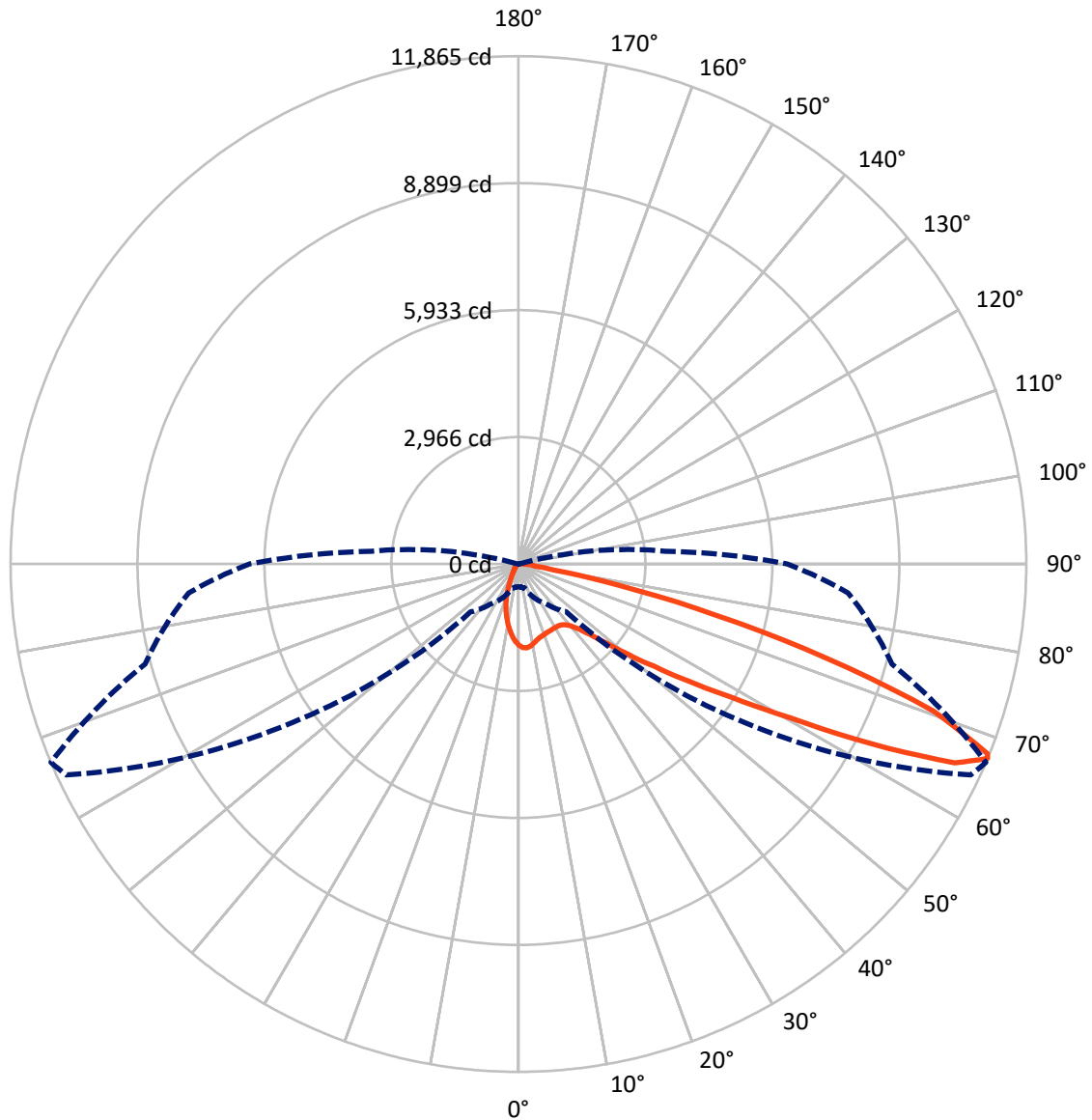


Based on 10 foot mounting height. Maximum calculated value = 19 fc
 Type II - Short - Semi-Cutoff

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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	894.6	0.0	894.6
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	7721.8	0.0	7721.8
	% Fixture	89.6	0.0	89.6
Total	Lumens	8616.4	0.0	8616.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	154.6	1.8
10°-20°	329.1	3.8
20°-30°	478.5	5.6
30°-40°	746.4	8.7
40°-50°	1322.3	15.3
50°-60°	2092.4	24.3
60°-70°	2396.5	27.8
70°-80°	994.0	11.5
80°-90°	102.7	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°	8616.4	100.0
0°-180°	8616.4	100.0

Coefficient of Utilization



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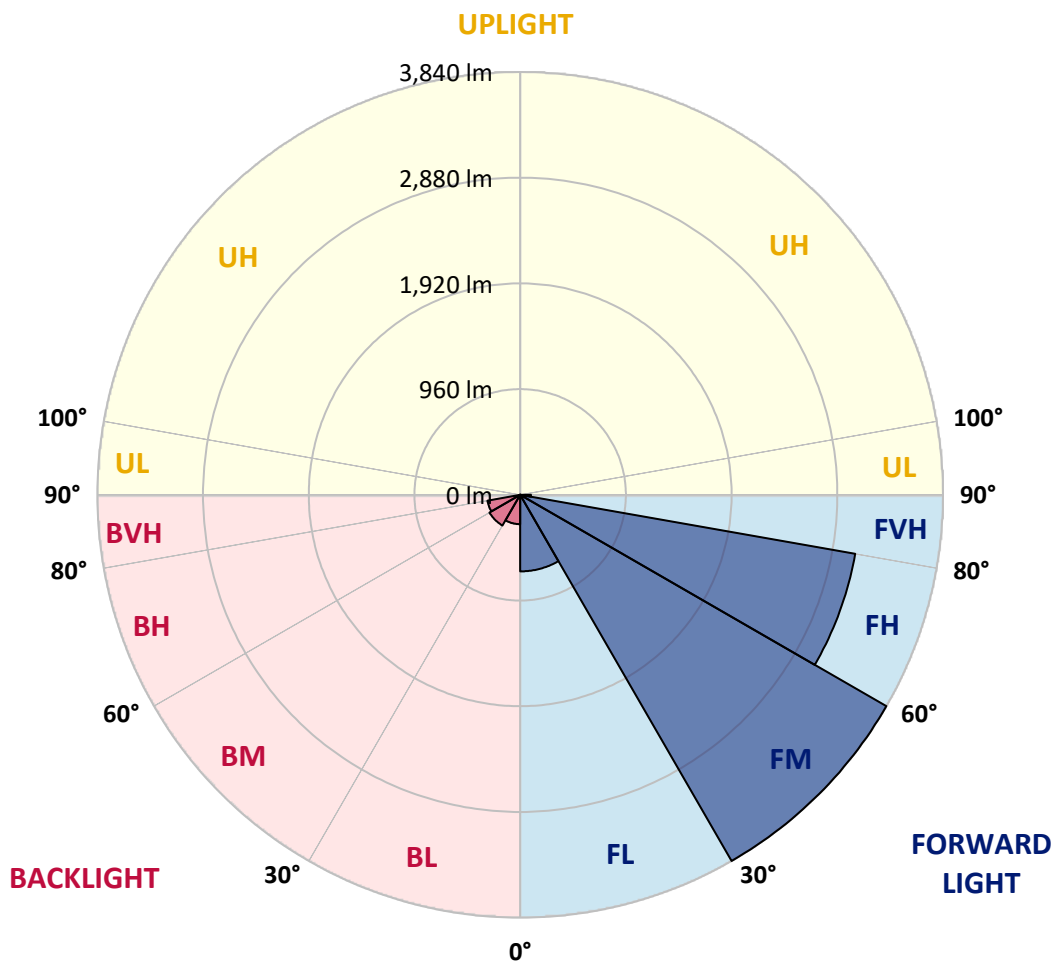
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	695.2	8.1			
FM (30°-60°)	3839.5	44.6			
FH (60°-80°)	3089.0	35.9			G2/5000
FVH (80°-90°)	98.0	1.1			G1/100
BL (0°-30°)	267.0	3.1	B1/500		
BM (30°-60°)	321.5	3.7	B1/1000		
BH (60°-80°)	301.5	3.5	B1/500		G1/500
BVH (80°-90°)	4.6	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°	1900.3	1900.3	1900.3	1900.3	1900.3	1900.3	1900.3	1900.3	1900.3	1900.3	1900.3
2.5°	1964.6	1968.5	1968.0	1971.2	1978.2	1978.6	1971.6	1958.0	1955.0	1937.5	1906.8
5°	1811.8	1823.3	1830.3	1859.0	1891.2	1929.9	1959.1	1969.7	1968.0	1955.5	1909.3
7.5°	1637.4	1649.0	1657.1	1690.7	1733.4	1799.8	1875.7	1938.0	1943.5	1957.0	1907.3
10°	1521.3	1523.3	1534.3	1566.6	1611.3	1679.1	1769.7	1878.6	1895.2	1945.0	1902.3
12.5°	1425.8	1427.2	1441.9	1476.5	1524.3	1592.7	1687.6	1813.8	1839.4	1929.9	1901.3
15°	1358.0	1363.4	1376.6	1412.8	1463.5	1531.3	1628.8	1766.1	1796.7	1924.3	1910.2
17.5°	1335.3	1341.3	1345.4	1371.5	1417.7	1484.1	1584.2	1734.8	1769.7	1927.4	1927.9
20°	1359.0	1363.4	1354.5	1361.0	1389.6	1449.0	1546.4	1708.2	1749.4	1930.8	1950.5
22.5°	1446.9	1449.0	1424.4	1395.6	1390.7	1423.4	1516.8	1687.1	1731.4	1940.5	1977.1
25°	1597.6	1594.1	1554.0	1492.2	1433.9	1418.8	1499.2	1674.1	1722.3	1950.5	2004.7
27.5°	1779.6	1784.7	1729.3	1639.3	1528.3	1449.0	1496.7	1668.5	1718.3	1957.5	2028.9
30°	2000.7	2007.8	1944.6	1831.4	1672.0	1523.3	1519.8	1667.6	1715.9	1953.1	2030.9
32.5°	2226.4	2235.0	2185.1	2068.5	1864.1	1647.9	1572.0	1678.7	1720.9	1937.5	2019.4
35°	2462.7	2474.7	2441.6	2341.5	2124.4	1828.0	1664.0	1712.3	1744.5	1935.8	2007.8
37.5°	2788.8	2799.8	2737.6	2631.4	2439.4	2069.1	1811.8	1775.6	1800.3	1960.0	2010.8
40°	3275.8	3274.3	3113.4	2951.1	2785.7	2375.7	2019.4	1890.3	1902.8	2033.0	2048.0
42.5°	3806.5	3804.1	3566.4	3319.4	3170.3	2753.1	2292.3	2088.2	2079.7	2167.2	2144.6
45°	4215.6	4215.0	4021.2	3743.1	3633.1	3186.4	2645.1	2363.6	2350.5	2385.2	2322.4
47.5°	4389.9	4393.0	4295.5	4100.0	4146.2	3772.3	3089.8	2762.6	2743.1	2729.1	2633.6
50°	4254.4	4260.3	4268.3	4230.2	4522.6	4559.8	3686.5	3325.0	3315.6	3252.7	3103.5
52.5°	3811.0	3841.7	3936.2	4057.3	4653.4	5315.7	4621.7	4023.6	3972.3	3905.6	3741.3
55°	3064.2	3097.9	3277.2	3571.3	4458.8	5812.4	5932.3	4924.2	4838.8	4639.2	4402.1
57.5°	2028.0	2080.1	2340.5	2714.4	3894.0	5892.3	7240.1	6174.1	5876.6	5330.4	5062.9
60°	1117.2	1167.4	1450.0	1788.6	2812.5	5497.2	8119.6	7801.5	7275.8	6102.7	5865.6
62.5°	688.0	715.2	923.7	1238.9	1686.7	4338.8	8301.5	9846.5	9237.8	7097.4	6835.1
65°	547.7	559.4	661.4	1012.7	1209.2	2580.7	7714.0	11405.5	11202.5	8301.5	7703.0
67°	531.7	536.3	584.4	869.5	1139.8	1582.2	6462.6	11659.2	11865.4	9030.3	7730.2
67.5°	535.2	540.3	586.1	829.8	1137.9	1453.9	6031.4	11559.2	11819.5	9088.2	7610.0
70°	516.2	531.7	670.9	829.2	1082.1	1208.2	3612.1	10015.4	10286.2	8444.2	6457.0
72.5°	183.0	184.0	290.1	670.9	1176.5	1221.2	1813.8	7342.1	7542.7	6459.6	4655.3
75°	108.5	92.4	96.5	191.0	1124.3	1186.1	1046.3	4691.6	4766.4	3701.5	2357.6
77.5°	74.9	65.3	67.4	84.4	428.2	1169.6	831.2	2446.5	2366.7	1298.1	502.1
80°	42.7	37.6	40.2	73.9	155.8	1091.1	784.0	992.1	845.8	220.2	138.7
82.5°	22.5	19.1	23.1	60.8	108.5	679.9	785.5	479.4	380.0	74.4	94.5
85°	8.1	6.6	11.0	41.7	72.4	208.5	728.3	403.1	316.7	36.2	71.9
87.5°	1.4	1.4	4.5	17.1	29.1	63.8	430.6	239.2	160.3	21.6	49.2
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°	1900.3	1900.3	1900.3	1900.3	1900.3	1900.3	1900.3	1900.3	1900.3	1900.3	1900.3
2.5°	1894.2	1872.5	1843.4	1807.7	1765.6	1728.3	1700.8	1672.0	1666.0	1655.9	1654.5
5°	1881.6	1844.5	1772.0	1689.2	1600.7	1520.8	1456.0	1398.1	1372.5	1350.4	1347.8
7.5°	1863.1	1807.3	1684.1	1550.5	1412.2	1286.6	1180.1	1104.6	1035.2	1002.1	997.1
10°	1841.4	1761.5	1585.1	1399.6	1208.7	1031.3	873.0	740.4	659.9	612.1	606.0
12.5°	1821.4	1716.8	1484.1	1243.3	989.6	752.4	548.9	422.2	337.8	303.5	299.6
15°	1811.8	1680.5	1389.6	1083.5	760.3	478.9	300.0	232.2	204.5	196.5	196.0
17.5°	1810.8	1649.9	1297.2	918.2	532.8	278.5	195.6	178.5	172.8	170.9	170.9
20°	1810.3	1620.8	1204.6	746.9	338.2	185.4	162.9	158.8	154.8	152.4	152.4
22.5°	1815.8	1594.8	1108.1	572.0	213.1	150.2	143.2	139.1	134.1	130.7	130.2
25°	1821.4	1574.5	1009.7	407.1	154.2	130.7	123.6	118.0	111.1	106.5	106.0
27.5°	1822.3	1549.4	904.1	272.4	129.1	114.1	105.0	96.5	88.5	83.9	83.5
30°	1807.3	1507.3	787.0	184.0	114.1	99.1	87.0	78.0	70.3	66.8	66.8
32.5°	1777.7	1455.0	658.4	138.7	101.5	84.9	71.9	63.3	58.3	56.9	56.4
35°	1750.9	1398.8	526.1	117.6	91.0	71.9	58.7	53.3	50.2	49.8	49.2
37.5°	1735.3	1353.4	402.0	106.5	80.8	60.2	49.8	45.8	44.2	43.2	43.7
40°	1747.5	1315.7	297.0	97.5	70.8	50.2	42.2	40.2	38.6	38.2	38.2
42.5°	1800.3	1309.2	220.7	89.4	61.4	41.7	36.7	35.2	34.1	33.6	34.1
45°	1938.9	1349.4	171.3	81.9	51.7	35.2	31.1	30.6	30.2	30.2	30.2
47.5°	2147.5	1432.3	142.7	73.4	43.2	30.2	27.2	26.6	26.1	26.6	26.6
50°	2500.8	1584.2	127.6	64.9	35.8	25.6	23.1	23.1	23.1	23.1	23.6
52.5°	3038.1	1882.7	117.6	56.4	29.1	21.6	19.7	19.7	20.1	20.1	20.7
55°	3636.7	2278.7	108.5	47.7	24.7	18.1	16.1	16.6	17.1	17.5	17.5
57.5°	4286.0	2717.5	101.0	39.2	21.1	14.6	13.6	14.1	14.6	15.6	15.6
60°	5069.4	3192.3	90.0	30.6	17.5	11.6	10.6	11.6	13.0	14.1	14.6
62.5°	5929.9	3651.7	75.8	24.2	14.6	9.1	8.5	10.6	12.5	13.6	14.1
65°	6517.9	3796.0	58.3	19.7	11.0	6.6	7.0	9.5	12.0	13.6	13.6
67°	6279.7	3441.6	47.7	16.6	9.1	5.0	6.6	9.5	12.0	13.0	13.6
67.5°	6114.4	3302.9	45.8	16.1	8.5	5.0	6.6	9.5	12.0	13.6	13.6
70°	4975.1	2481.2	38.2	12.0	7.0	4.5	5.5	9.1	11.6	13.0	13.0
72.5°	3456.7	1529.9	34.1	8.5	6.0	4.0	5.0	8.5	11.0	12.5	13.0
75°	1643.4	553.9	29.1	6.6	5.5	3.6	4.5	8.5	11.0	12.5	12.5
77.5°	335.2	128.6	23.6	5.5	4.5	3.6	4.0	8.1	10.6	12.0	12.0
80°	110.0	49.8	17.5	5.0	4.5	3.6	4.0	7.5	10.6	11.6	12.0
82.5°	79.4	25.2	11.6	5.0	4.5	3.6	3.6	7.5	10.1	11.6	11.6
85°	60.8	17.5	7.5	5.0	4.5	3.6	3.6	7.0	9.5	11.0	11.0
87.5°	40.2	7.0	6.0	5.0	4.5	3.6	3.6	7.0	9.1	10.6	11.0
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)