

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: P192850

Luminaire Tested: **GLEON-AF-02-LED-E1-SL3-7030-600-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192850
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24289)
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-SL3-7030-600-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6631 lumens
Efficiency: N/A
Efficacy: 100.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short - Non-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

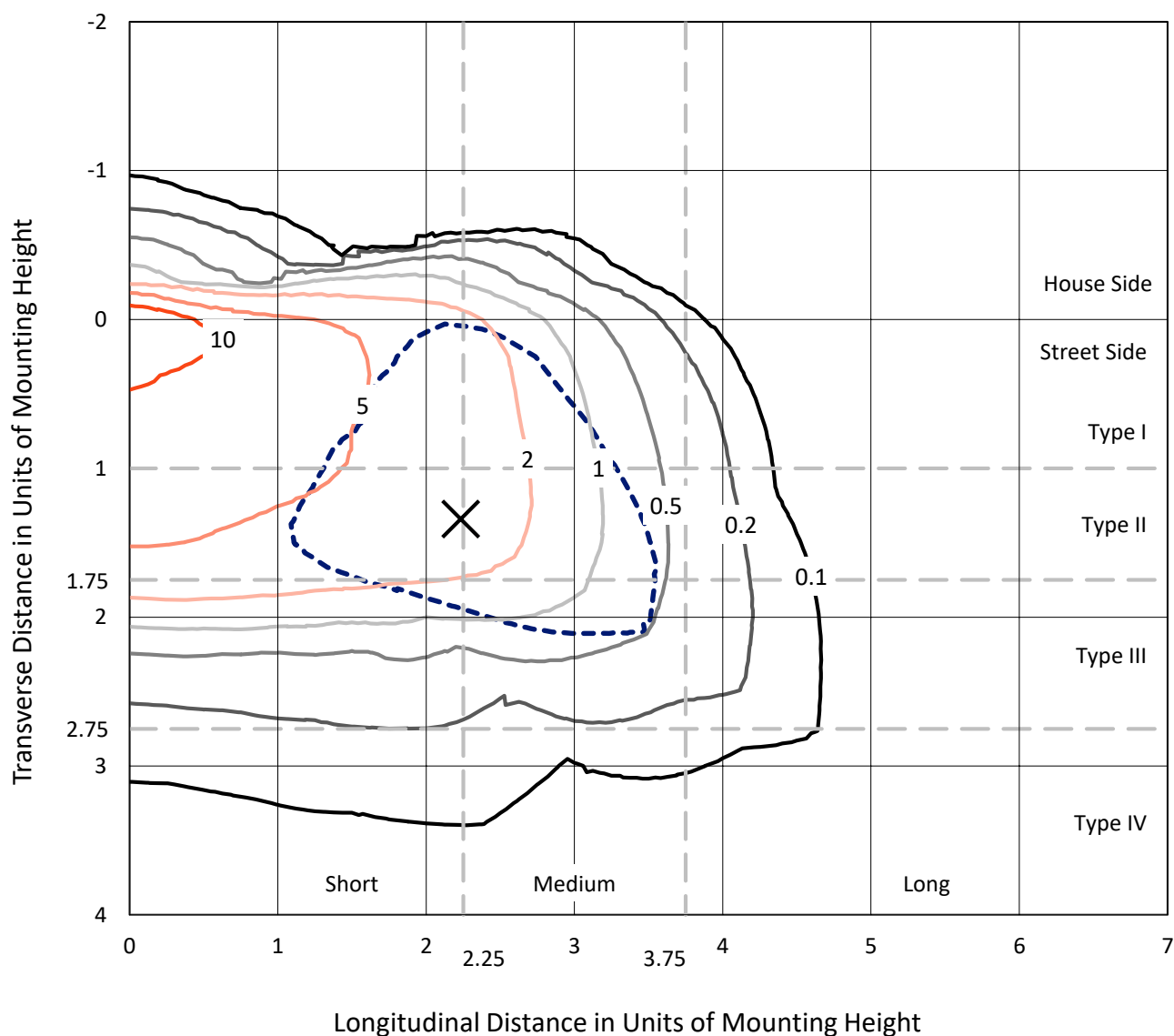


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

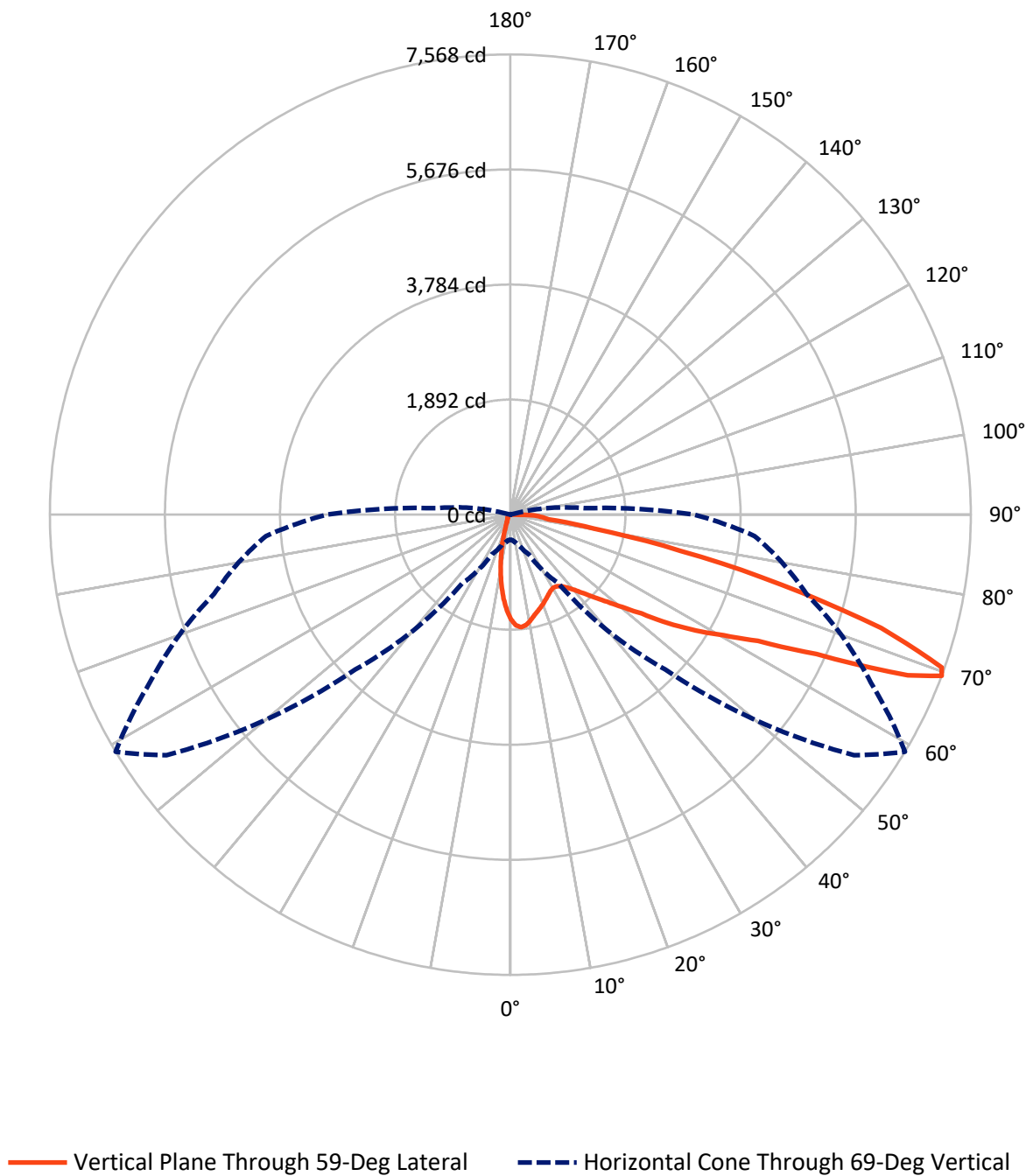


Based on 10 foot mounting height. Maximum calculated value = 17.3 fc
 Type III - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	540.0	0.0	540.0
	% Fixture	8.1	0.0	8.1
Street Side	Lumens	6091.0	0.0	6091.0
	% Fixture	91.9	0.0	91.9
Total	Lumens	6631.0	0.0	6631.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	140.1	2.1
10°-20°	289.5	4.4
20°-30°	389.5	5.9
30°-40°	565.6	8.5
40°-50°	941.7	14.2
50°-60°	1469.1	22.2
60°-70°	1817.9	27.4
70°-80°	921.3	13.9
80°-90°	96.4	1.5
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°	6631.0	100.0
0°-180°	6631.0	100.0

Coefficient of Utilization



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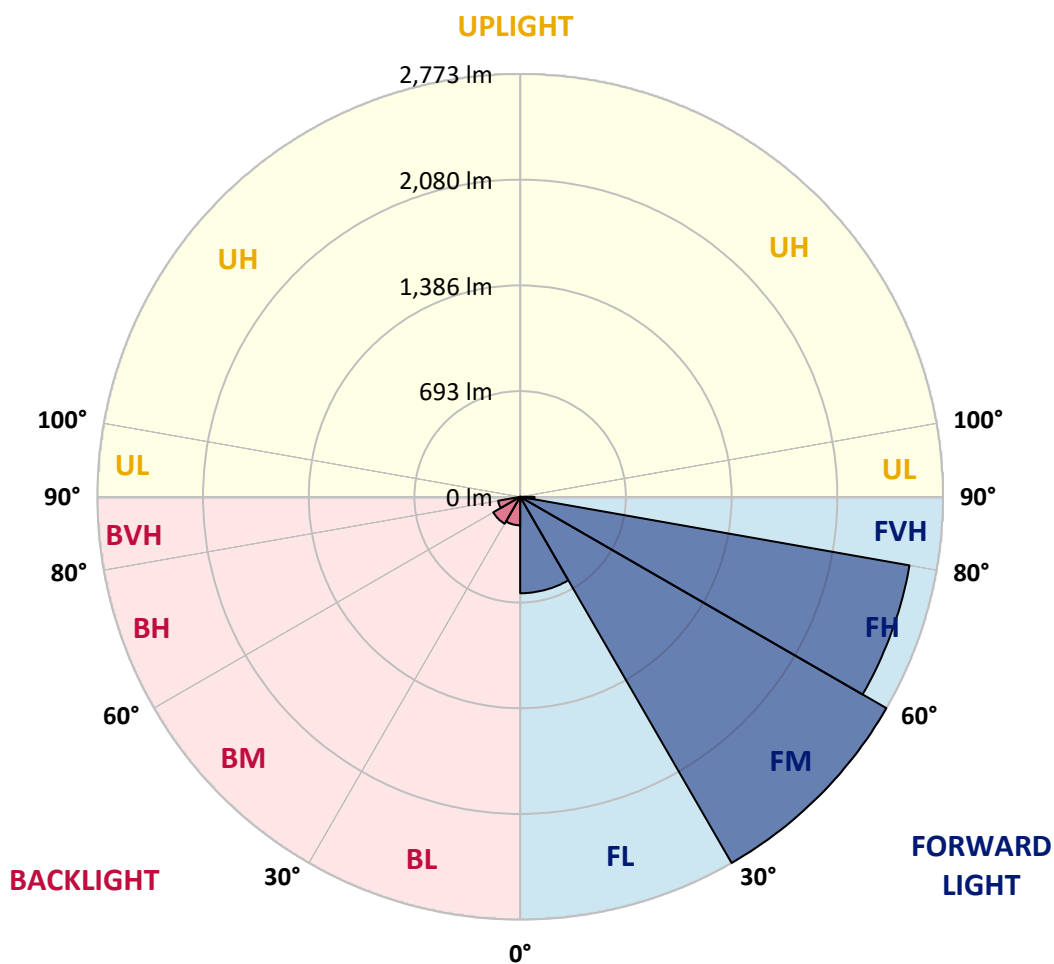
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	632.2	9.5			
FM	(30°-60°)	2772.9	41.8			
FH	(60°-80°)	2592.5	39.1			G2/5000
FVH	(80°-90°)	93.4	1.4			G1/100
BL	(0°-30°)	186.9	2.8	B1/500		
BM	(30°-60°)	203.5	3.1	B0/220		
BH	(60°-80°)	146.7	2.2	B1/500		G1/500
BVH	(80°-90°)	3.0	0.0			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 III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	1726.0	1726.0	1726.0	1726.0	1726.0	1726.0	1726.0	1726.0	1726.0	1726.0	1726.0
2.5°	1891.8	1891.0	1882.6	1878.9	1872.1	1858.0	1835.8	1824.2	1805.4	1772.8	1728.9
5°	1874.5	1883.4	1888.3	1888.6	1893.6	1888.3	1868.5	1858.7	1832.9	1780.3	1701.6
7.5°	1757.4	1760.8	1774.7	1786.7	1810.0	1832.1	1839.2	1835.0	1819.7	1763.5	1658.8
10°	1632.3	1635.6	1652.1	1667.9	1699.3	1733.4	1769.5	1776.9	1783.3	1739.4	1617.6
12.5°	1524.1	1527.6	1544.5	1565.1	1601.8	1643.8	1699.7	1712.1	1740.2	1716.6	1584.6
15°	1431.2	1432.7	1449.3	1474.7	1518.6	1572.6	1635.9	1655.9	1699.0	1700.4	1555.8
17.5°	1352.1	1355.9	1366.0	1390.4	1438.4	1505.0	1578.9	1607.4	1658.1	1687.0	1527.6
20°	1303.8	1307.5	1307.1	1320.6	1363.8	1435.0	1522.0	1556.1	1617.6	1673.1	1502.5
22.5°	1294.4	1294.4	1284.6	1282.7	1308.3	1367.8	1462.8	1504.4	1581.2	1667.1	1484.9
25°	1327.7	1326.2	1301.9	1281.9	1283.1	1318.8	1405.4	1454.9	1550.5	1671.2	1475.4
27.5°	1398.2	1396.4	1365.6	1327.7	1297.4	1297.0	1361.8	1415.1	1526.2	1690.7	1479.3
30°	1495.8	1495.0	1461.6	1414.0	1358.8	1308.3	1346.8	1395.2	1510.3	1726.0	1487.9
32.5°	1602.2	1601.0	1575.9	1525.7	1456.0	1358.8	1362.6	1403.1	1514.9	1772.8	1508.9
35°	1715.1	1713.1	1702.4	1658.4	1581.6	1452.3	1414.4	1445.8	1543.3	1842.9	1550.1
37.5°	1837.3	1839.2	1847.0	1805.1	1724.4	1583.0	1501.0	1522.3	1600.7	1938.2	1617.2
40°	2017.7	2017.3	2019.8	1964.8	1887.1	1743.2	1622.1	1628.8	1696.7	2064.6	1719.2
42.5°	2345.0	2322.1	2252.8	2140.3	2062.3	1926.1	1774.7	1767.6	1814.0	2220.9	1862.1
45°	2784.8	2736.1	2556.1	2340.6	2240.8	2132.4	1962.6	1939.7	1969.3	2408.7	2038.2
47.5°	3163.2	3112.6	2857.9	2549.0	2430.2	2328.1	2182.7	2141.4	2151.1	2619.1	2261.7
50°	3291.8	3267.1	3044.7	2730.5	2613.5	2574.4	2438.0	2387.8	2373.8	2862.5	2520.8
52.5°	3247.1	3245.3	3097.2	2848.2	2781.4	2829.5	2759.4	2701.2	2650.2	3119.0	2784.5
55°	3175.5	3184.9	3118.6	2951.3	2949.0	3062.3	3198.8	3150.4	3002.7	3397.5	3011.7
57.5°	2978.0	3018.1	3106.6	3146.3	3238.6	3354.4	3564.8	3593.2	3418.5	3610.9	3200.3
60°	2416.3	2504.3	2793.9	3174.4	3611.7	3900.3	4006.4	4030.8	3759.7	3788.2	3454.9
62.5°	1715.1	1805.1	2172.2	2815.9	3617.2	4617.7	4664.5	4568.9	4135.5	4051.2	3894.0
65°	910.4	979.7	1279.8	2032.7	3136.2	4784.1	5815.3	5530.2	4798.3	4568.1	4461.3
67.5°	465.7	486.7	606.0	994.8	2156.0	4249.4	6846.7	7047.3	5940.9	5081.1	4434.0
69°	412.1	424.5	503.5	719.2	1380.6	3599.2	6897.0	7568.2	6538.9	5038.4	4029.4
70°	398.9	409.8	481.9	650.9	1079.2	3018.4	6704.7	7522.5	6691.9	4875.5	3727.2
72.5°	338.6	348.0	429.0	575.1	877.1	1498.4	5446.3	6374.3	6005.0	4061.6	2697.8
75°	226.5	257.2	411.7	539.2	815.9	851.1	3590.6	4606.4	4279.0	2739.4	1405.4
77.5°	54.4	58.5	116.3	429.0	746.1	749.2	1846.7	2863.5	2335.6	976.4	332.2
80°	29.3	28.1	32.7	85.1	694.8	703.1	831.3	1390.0	833.8	162.0	109.5
82.5°	20.6	19.4	21.0	35.6	218.6	640.5	601.5	629.3	345.7	62.3	49.1
85°	7.5	7.1	11.6	32.2	68.7	368.2	618.0	519.0	280.1	28.5	35.9
87.5°	2.6	2.3	4.5	17.6	21.0	156.8	381.4	392.2	110.3	17.3	16.8
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°	1726.0	1726.0	1726.0	1726.0	1726.0	1726.0	1726.0	1726.0	1726.0	1726.0	1726.0
2.5°	1710.6	1687.3	1644.6	1600.7	1560.2	1511.5	1487.1	1463.1	1452.9	1449.3	1431.7
5°	1661.1	1621.7	1530.9	1439.8	1355.9	1266.7	1207.8	1160.6	1132.8	1119.3	1097.8
7.5°	1597.7	1533.2	1395.6	1255.0	1124.2	995.2	899.5	826.0	775.4	751.0	729.0
10°	1536.1	1450.3	1254.7	1063.0	885.3	714.3	582.4	486.7	425.6	397.4	379.4
12.5°	1481.1	1369.8	1118.5	875.9	652.9	452.6	318.4	242.2	204.4	191.2	184.8
15°	1432.0	1295.5	989.9	698.1	442.1	258.7	173.9	148.1	142.1	142.1	141.4
17.5°	1385.5	1222.7	865.8	531.3	277.5	158.2	132.3	129.0	129.0	130.4	130.4
20°	1340.8	1153.3	745.8	381.4	174.7	125.6	119.6	118.9	119.6	121.5	121.5
22.5°	1302.6	1090.4	633.7	261.6	129.7	113.2	110.3	109.2	109.5	110.6	111.3
25°	1274.1	1037.1	527.9	177.3	111.8	103.1	99.8	97.9	96.3	96.3	97.1
27.5°	1256.2	992.2	425.6	129.0	100.5	93.8	88.5	85.4	82.2	80.2	81.0
30°	1243.1	949.4	329.6	105.3	90.0	83.2	76.5	71.6	66.7	64.5	65.2
32.5°	1238.1	914.9	246.4	93.0	80.7	73.1	64.9	58.5	53.2	51.4	51.8
35°	1251.2	887.5	180.4	84.0	73.1	63.7	54.4	47.2	43.1	41.9	42.4
37.5°	1285.8	872.9	134.9	76.5	66.3	55.8	45.4	38.6	35.9	35.9	36.4
40°	1351.0	872.6	108.3	71.2	60.4	48.4	37.4	32.7	31.1	31.9	32.2
42.5°	1446.3	892.4	94.5	66.3	55.0	41.3	31.1	27.8	27.5	28.1	28.5
45°	1576.3	928.8	87.0	62.3	49.5	34.5	26.2	24.0	24.0	25.1	25.4
47.5°	1735.7	982.0	80.7	58.1	43.9	28.9	22.5	21.0	21.5	22.5	22.8
50°	1927.7	1049.1	74.3	53.6	39.8	24.0	19.4	18.3	18.8	20.2	20.6
52.5°	2146.3	1139.5	69.0	49.5	34.5	19.8	16.5	15.8	16.5	18.0	18.3
55°	2333.8	1220.5	62.6	46.1	27.8	16.5	13.5	13.5	14.2	16.2	16.5
57.5°	2514.0	1305.2	57.1	39.8	21.8	13.1	11.3	11.6	12.8	14.6	15.0
60°	2778.8	1448.9	50.3	33.4	16.5	10.5	9.4	9.8	11.3	13.1	13.5
62.5°	3228.4	1667.4	43.4	27.8	12.8	8.3	7.5	8.3	10.2	12.3	12.8
65°	3634.1	1756.4	35.6	23.3	9.8	6.3	6.3	7.5	9.8	12.0	12.3
67.5°	3408.1	1478.5	27.8	18.3	7.5	4.9	5.3	7.1	9.4	12.0	12.3
69°	3013.9	1208.9	23.6	14.6	6.3	4.5	4.9	7.1	9.4	11.6	12.0
70°	2706.8	1020.6	21.0	12.3	5.6	4.5	4.9	6.8	9.4	11.6	12.0
72.5°	1812.9	551.2	16.8	9.0	5.3	4.2	4.2	6.8	9.0	11.3	11.6
75°	779.1	152.2	13.5	6.3	4.5	3.8	3.8	6.3	8.6	10.9	11.6
77.5°	142.5	38.6	10.9	5.6	4.5	3.8	3.4	6.0	8.3	10.5	10.9
80°	56.6	19.1	8.6	4.9	4.2	3.4	2.9	5.6	7.8	10.2	10.5
82.5°	34.1	10.9	7.1	4.5	4.2	2.9	2.6	4.9	7.5	9.8	10.2
85°	27.8	7.5	5.6	4.5	3.8	2.9	2.3	4.5	6.8	9.4	9.8
87.5°	13.5	5.3	5.3	4.2	3.8	2.9	2.3	4.2	6.3	9.0	9.4
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)