

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: P199992

Luminaire Tested: **GWC-AF-02-LED-E1-SL4-7030**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P199992  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24294)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GWC-AF-02-LED-E1-SL4-7030  
Description: GALLEON WALL LUMINAIRE  
(2) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV  
SPILL LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11415.4 lumens  
Efficiency: N/A  
Efficacy: 101.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short - Semi-Cutoff  
BUG Rating: B1 - U0 - G3

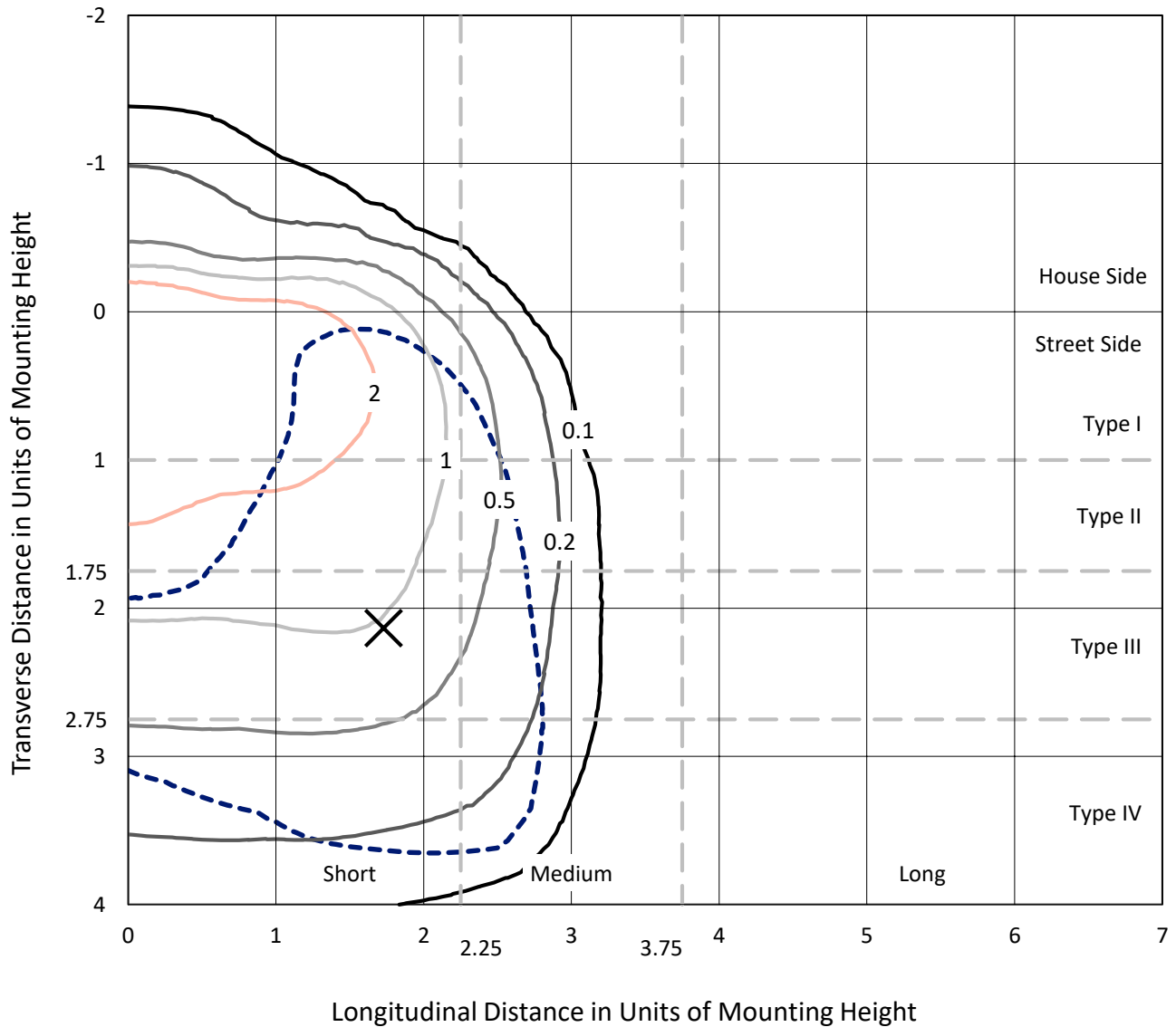
Input Watts (W): 113  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

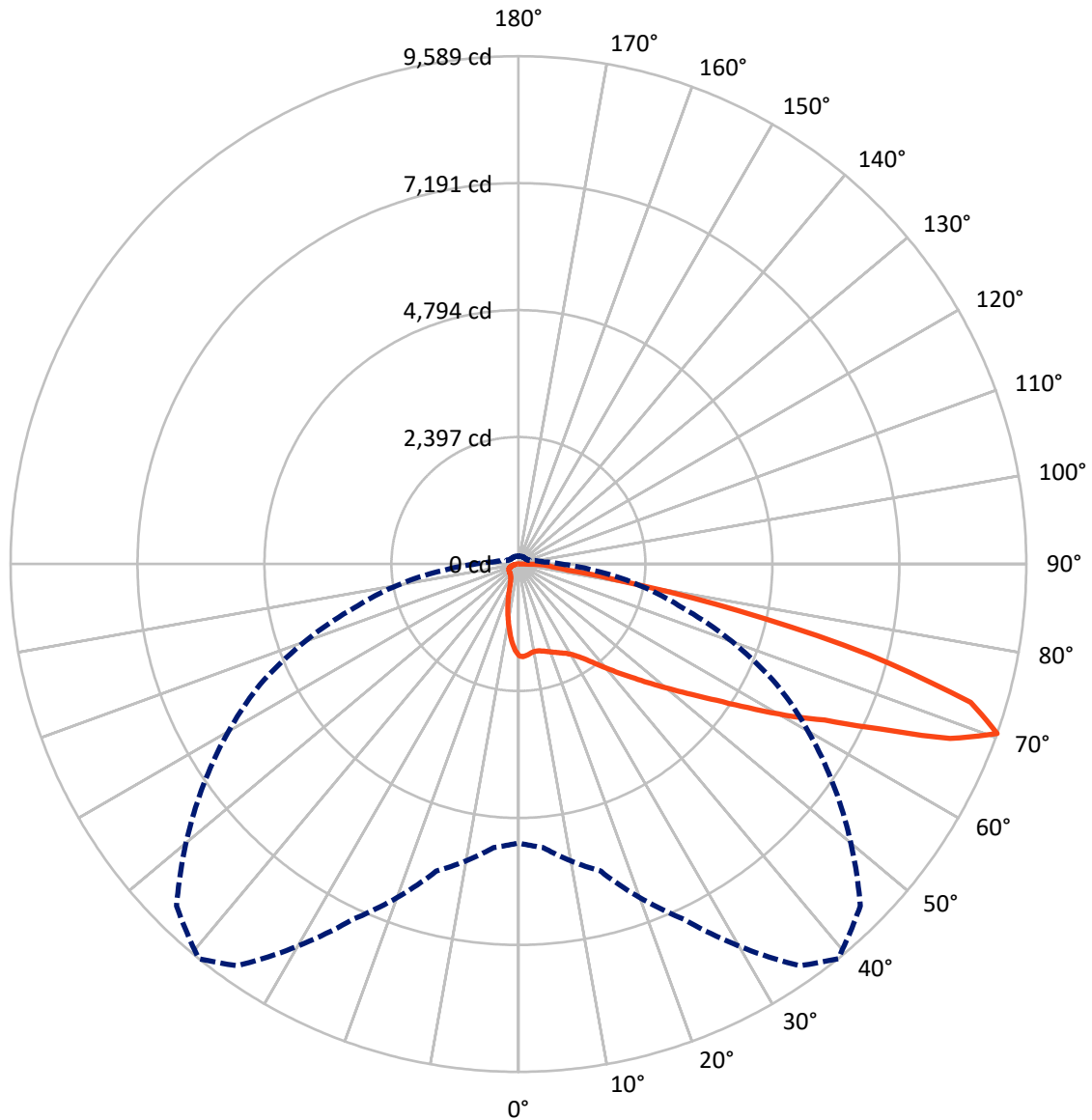
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.3 fc  
 Type IV - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1298.3	0.0	1298.3
	% Fixture	11.4	0.0	11.4
<b>Street Side</b>	Lumens	10117.1	0.0	10117.1
	% Fixture	88.6	0.0	88.6
<b>Total</b>	Lumens	11415.4	0.0	11415.4
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	148.7	1.3
10°-20°	371.8	3.3
20°-30°	578.8	5.1
30°-40°	901.7	7.9
40°-50°	1513.9	13.3
50°-60°	2404.9	21.1
60°-70°	3207.9	28.1
70°-80°	1937.1	17.0
80°-90°	350.6	3.1
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°	11415.4	100.0
0°-180°	11415.4	100.0



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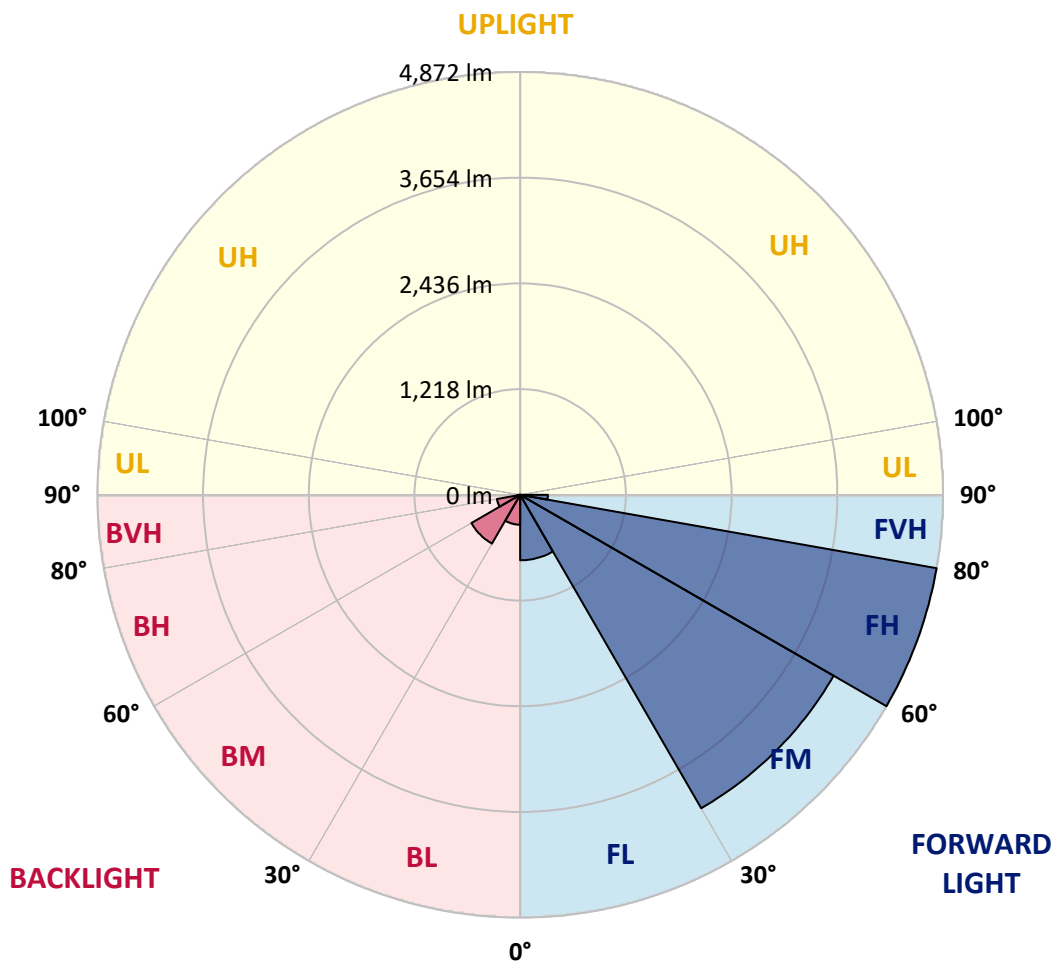
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	754.9	6.6			
FM	(30°-60°)	4170.8	36.5			
FH	(60°-80°)	4872.4	42.7			G2/5000
FVH	(80°-90°)	319.0	2.8			G3/500
BL	(0°-30°)	344.4	3.0	B1/500		
BM	(30°-60°)	649.7	5.7	B1/1000		
BH	(60°-80°)	272.6	2.4	B1/500		G1/500
BVH	(80°-90°)	31.6	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G3**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	1733.1	1733.1	1733.1	1733.1	1733.1	1733.1	1733.1	1733.1	1733.1	1733.1	1733.1
2.5°	1766.7	1766.0	1761.5	1758.0	1755.1	1753.9	1756.3	1747.5	1740.0	1730.6	1720.9
5°	1753.4	1752.7	1745.2	1738.2	1731.3	1728.9	1728.4	1712.7	1703.5	1689.4	1670.9
7.5°	1738.9	1735.9	1726.1	1714.5	1702.3	1696.5	1690.7	1670.3	1659.8	1646.0	1624.4
10°	1723.8	1720.3	1711.0	1699.4	1687.7	1679.1	1669.2	1649.5	1638.5	1628.0	1603.1
12.5°	1708.0	1705.2	1702.8	1697.7	1689.4	1681.9	1674.4	1657.6	1646.0	1633.8	1604.8
15°	1705.7	1704.6	1709.8	1713.3	1708.7	1704.0	1695.9	1681.4	1669.2	1657.0	1619.3
17.5°	1724.3	1723.8	1737.1	1746.4	1744.1	1735.9	1724.8	1708.7	1698.8	1688.4	1641.3
20°	1765.0	1767.9	1784.1	1796.3	1784.6	1773.1	1755.1	1732.5	1727.3	1722.6	1664.0
22.5°	1841.6	1844.6	1856.1	1860.6	1830.5	1813.7	1788.8	1759.7	1756.3	1759.7	1691.3
25°	1961.1	1958.3	1956.5	1939.1	1883.9	1857.9	1825.9	1795.6	1797.5	1813.1	1729.6
27.5°	2119.5	2103.9	2079.5	2027.3	1939.7	1910.6	1871.7	1843.9	1854.9	1885.0	1787.1
30°	2283.8	2266.4	2210.1	2124.8	2012.8	1980.9	1937.3	1906.0	1935.0	1982.6	1863.6
32.5°	2435.9	2433.5	2351.2	2241.5	2113.7	2085.9	2042.4	2007.0	2054.0	2126.5	1978.5
35°	2601.9	2607.2	2508.5	2376.7	2250.2	2221.1	2189.8	2163.2	2225.8	2325.6	2145.1
37.5°	2779.4	2789.9	2673.2	2524.7	2405.7	2393.6	2375.0	2363.4	2460.3	2598.4	2377.8
40°	3016.8	3006.4	2844.4	2691.8	2596.6	2596.1	2590.3	2604.2	2765.6	2954.7	2676.8
42.5°	3271.1	3240.3	3026.2	2871.3	2806.3	2825.9	2837.5	2894.4	3132.9	3387.7	3041.2
45°	3545.0	3476.0	3214.7	3061.0	3038.9	3080.7	3120.1	3243.8	3565.3	3880.5	3440.6
47.5°	3763.8	3697.2	3409.8	3260.1	3308.2	3371.5	3447.4	3643.1	4049.3	4389.5	3834.6
50°	3936.2	3892.7	3606.5	3492.2	3604.8	3702.2	3826.5	4095.2	4553.2	4885.1	4199.7
52.5°	4103.3	4070.8	3805.1	3730.1	3953.0	4087.7	4256.5	4580.3	5069.6	5372.6	4506.7
55°	4254.2	4231.1	4018.5	4026.7	4362.7	4538.1	4750.5	5132.9	5632.7	5807.3	4766.8
57.5°	4424.4	4394.7	4262.3	4398.8	4889.2	5116.7	5392.9	5753.9	6160.8	6193.9	4964.6
60°	4595.6	4570.0	4532.8	4828.2	5557.8	5796.9	6058.7	6355.8	6696.5	6494.0	4953.0
62.5°	4744.0	4747.0	4812.6	5279.2	6212.5	6489.4	6808.5	7102.2	7181.2	6546.2	4586.8
65°	4996.0	5041.8	5237.5	5917.6	7134.1	7504.4	7896.1	7849.1	7315.2	6058.1	3801.5
67.5°	5295.5	5376.1	5772.5	6768.5	8299.0	8790.6	8942.0	8018.1	6778.3	4924.6	2709.8
70°	5265.3	5376.1	6003.6	7402.9	9258.9	9588.6	9128.9	7256.6	5382.5	3217.1	1439.4
72.5°	4675.6	4834.0	5532.8	7112.0	8956.5	8927.5	7925.2	5409.8	3197.9	1292.0	562.3
75°	3563.6	3723.8	4325.0	5618.7	7079.0	6835.3	5623.3	2988.5	1213.6	513.1	354.6
77.5°	2049.9	2174.2	2638.4	3445.7	4491.0	4240.9	3130.1	1329.1	590.9	357.5	276.9
80°	1144.5	1213.6	1495.6	1748.1	2200.8	2017.5	1400.4	825.9	441.1	259.4	213.6
82.5°	904.7	966.4	1209.5	1102.8	1005.1	927.5	804.3	735.4	352.3	163.7	127.8
85°	790.5	849.1	1023.8	868.3	686.5	629.8	653.5	723.8	273.9	98.7	109.2
87.5°	732.5	810.8	912.4	669.2	534.5	473.6	603.0	793.4	88.2	61.5	44.1
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°	1733.1	1733.1	1733.1	1733.1	1733.1	1733.1	1733.1	1733.1	1733.1	1733.1	1733.1
2.5°	1712.1	1702.8	1687.7	1674.4	1653.5	1642.5	1630.2	1621.6	1614.7	1608.9	1618.1
5°	1659.3	1641.9	1610.1	1575.7	1535.1	1503.2	1476.5	1451.5	1434.1	1422.5	1430.6
7.5°	1609.4	1581.0	1531.0	1469.0	1399.3	1340.1	1291.3	1248.4	1218.8	1199.6	1207.2
10°	1581.0	1545.6	1468.3	1370.8	1268.2	1175.8	1099.2	1033.0	987.2	961.2	965.2
12.5°	1574.0	1528.2	1421.4	1287.3	1146.9	1018.7	910.6	818.9	754.6	720.9	721.9
15°	1579.3	1520.6	1377.2	1207.2	1029.7	867.6	733.0	621.5	546.8	508.4	507.8
17.5°	1588.0	1514.8	1330.8	1120.8	910.6	722.5	572.3	463.2	396.9	366.2	364.0
20°	1597.3	1505.5	1278.6	1027.2	787.0	588.0	448.1	362.7	321.0	304.1	302.9
22.5°	1610.6	1497.4	1224.6	928.6	665.7	478.8	368.5	311.1	289.0	280.4	279.1
25°	1632.0	1493.3	1167.1	825.9	556.5	400.4	321.0	285.6	272.8	267.0	266.4
27.5°	1668.1	1499.1	1113.2	726.0	467.7	347.7	294.2	272.8	263.6	258.3	257.8
30°	1714.5	1517.2	1056.3	631.4	398.7	311.7	277.9	264.1	256.5	251.3	251.3
32.5°	1791.7	1547.3	996.6	549.6	349.4	286.7	265.8	256.5	250.1	246.1	245.5
35°	1905.4	1604.2	940.8	481.8	314.0	268.7	255.3	248.4	243.7	241.5	241.5
37.5°	2070.8	1694.2	891.4	433.0	292.5	256.5	245.5	240.3	237.4	237.4	237.4
40°	2293.2	1818.4	851.4	400.4	280.4	247.8	237.9	234.0	232.1	232.7	232.7
42.5°	2567.6	1979.7	824.7	377.8	274.6	242.5	232.7	229.2	227.5	226.9	227.5
45°	2880.5	2163.2	821.8	361.0	268.7	239.2	229.2	225.7	222.4	219.9	219.9
47.5°	3184.6	2349.4	845.6	355.2	262.3	235.0	226.3	222.9	217.7	212.4	212.4
50°	3453.3	2507.8	877.6	357.5	260.0	229.2	221.7	219.9	211.9	206.1	205.4
52.5°	3666.8	2629.8	903.7	364.5	262.3	225.2	215.9	216.5	207.8	201.4	200.8
55°	3838.1	2709.8	896.7	371.5	267.5	222.9	210.7	211.9	204.9	198.6	198.6
57.5°	3913.0	2680.2	819.6	365.7	271.6	223.4	206.6	211.3	205.4	199.6	199.6
60°	3752.2	2417.4	675.0	340.2	266.4	221.7	204.9	213.6	213.0	207.1	206.6
62.5°	3265.9	1946.7	523.5	302.4	248.4	213.0	200.3	213.0	219.4	217.7	217.1
65°	2517.2	1386.5	399.9	261.7	224.0	198.6	188.0	199.6	208.3	210.7	210.1
67.5°	1633.8	849.7	308.2	223.4	196.7	181.7	172.4	177.5	179.3	179.3	178.2
70°	803.3	457.4	245.5	188.0	169.0	163.7	158.4	155.5	152.6	150.3	150.3
72.5°	396.4	299.0	202.0	159.0	145.7	143.3	142.1	138.8	136.3	133.6	132.3
75°	293.2	243.2	171.7	134.1	125.3	123.0	125.3	122.5	122.0	119.5	118.4
77.5°	240.8	207.1	148.0	114.9	107.4	103.4	106.7	107.4	107.9	104.5	103.4
80°	195.6	175.3	123.6	95.2	88.2	85.3	87.6	92.4	93.4	88.2	85.9
82.5°	141.1	143.3	99.9	74.3	68.5	66.2	70.8	76.6	77.8	70.3	68.5
85°	118.4	119.5	76.6	52.8	47.0	43.4	51.1	57.0	60.9	53.4	51.7
87.5°	49.3	70.3	44.1	29.6	26.1	22.6	27.4	30.1	36.6	33.7	33.1
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)