

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: P452618

Luminaire Tested: **GALN-SA3C-750-U-T3-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P452618  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-13)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA3C-750-U-T3-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 5000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 15409 lumens  
Efficiency: N/A  
Efficacy: 96.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G3

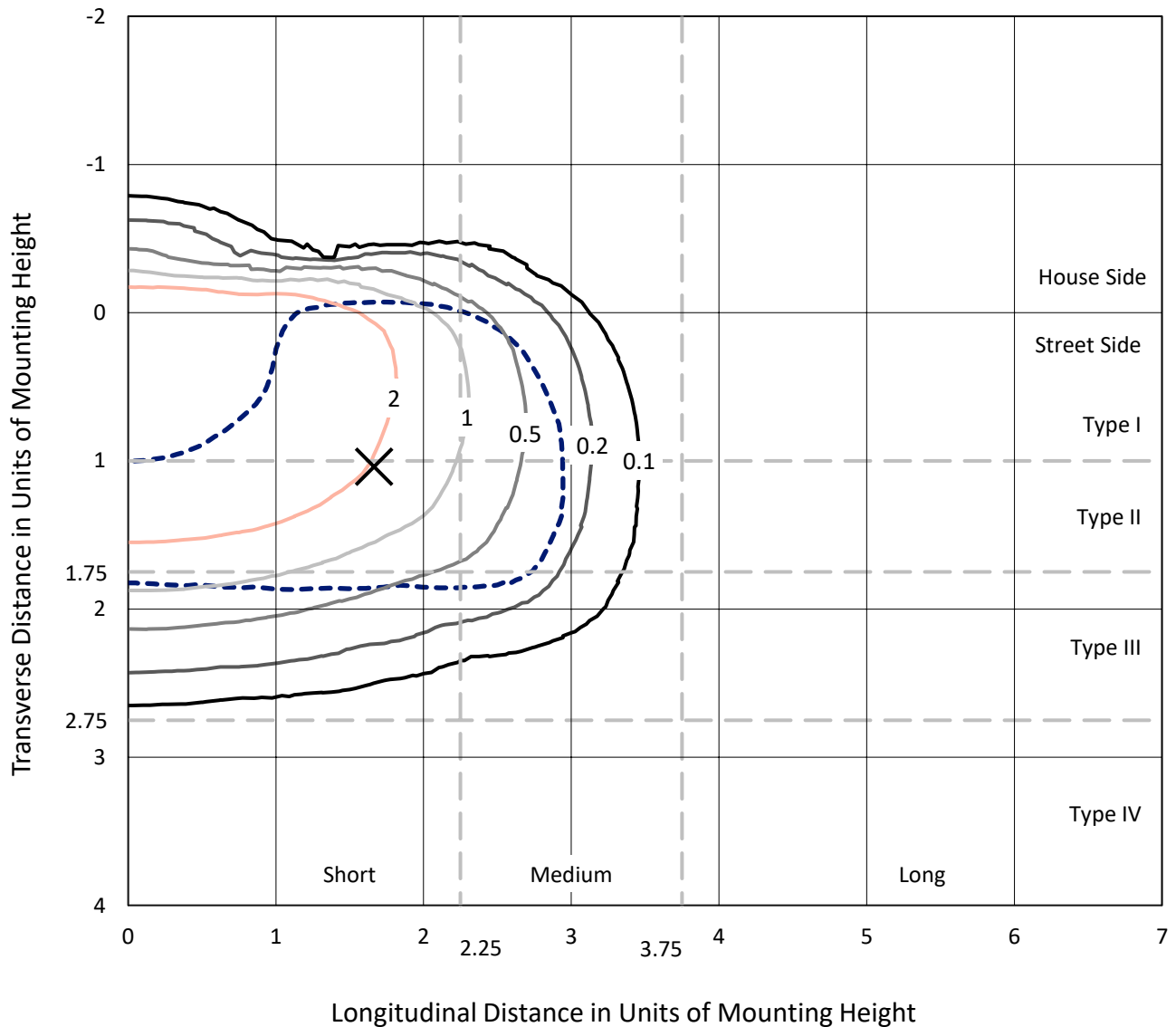
Input Watts (W): 160  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

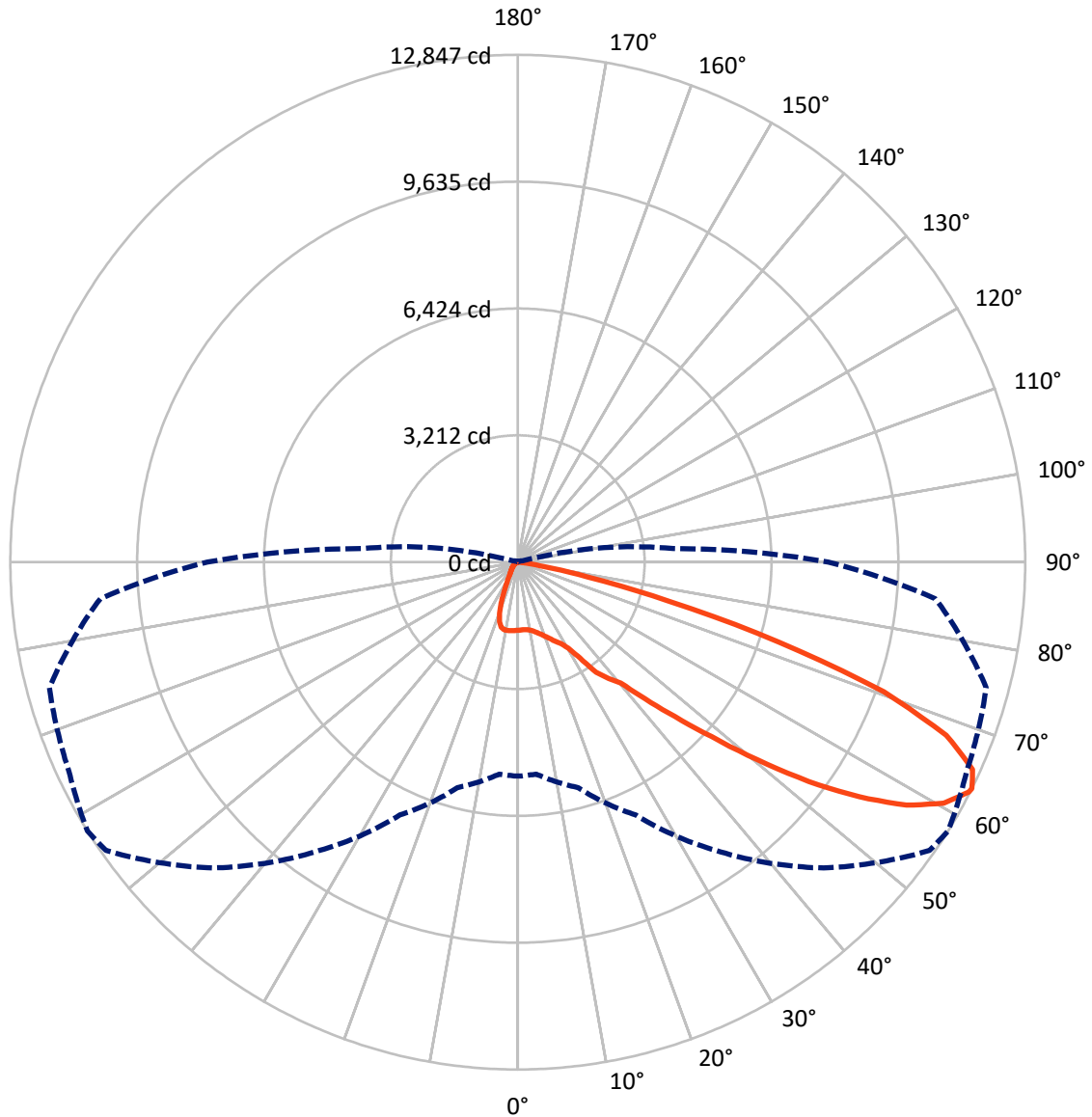
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.8 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral    - - - Horizontal Cone Through 63-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1595.5	0.0	1595.5
	% Fixture	10.4	0.0	10.4
<b>Street Side</b>	Lumens	13813.5	0.0	13813.5
	% Fixture	89.6	0.0	89.6
<b>Total</b>	Lumens	15409.0	0.0	15409.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	161.5	1.0
10°-20°	439.8	2.9
20°-30°	763.4	5.0
30°-40°	1402.8	9.1
40°-50°	2640.7	17.1
50°-60°	4516.8	29.3
60°-70°	4324.8	28.1
70°-80°	1102.8	7.2
80°-90°	56.4	0.4
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°	15409.0	100.0
0°-180°	15409.0	100.0

**Coefficient of Utilization**



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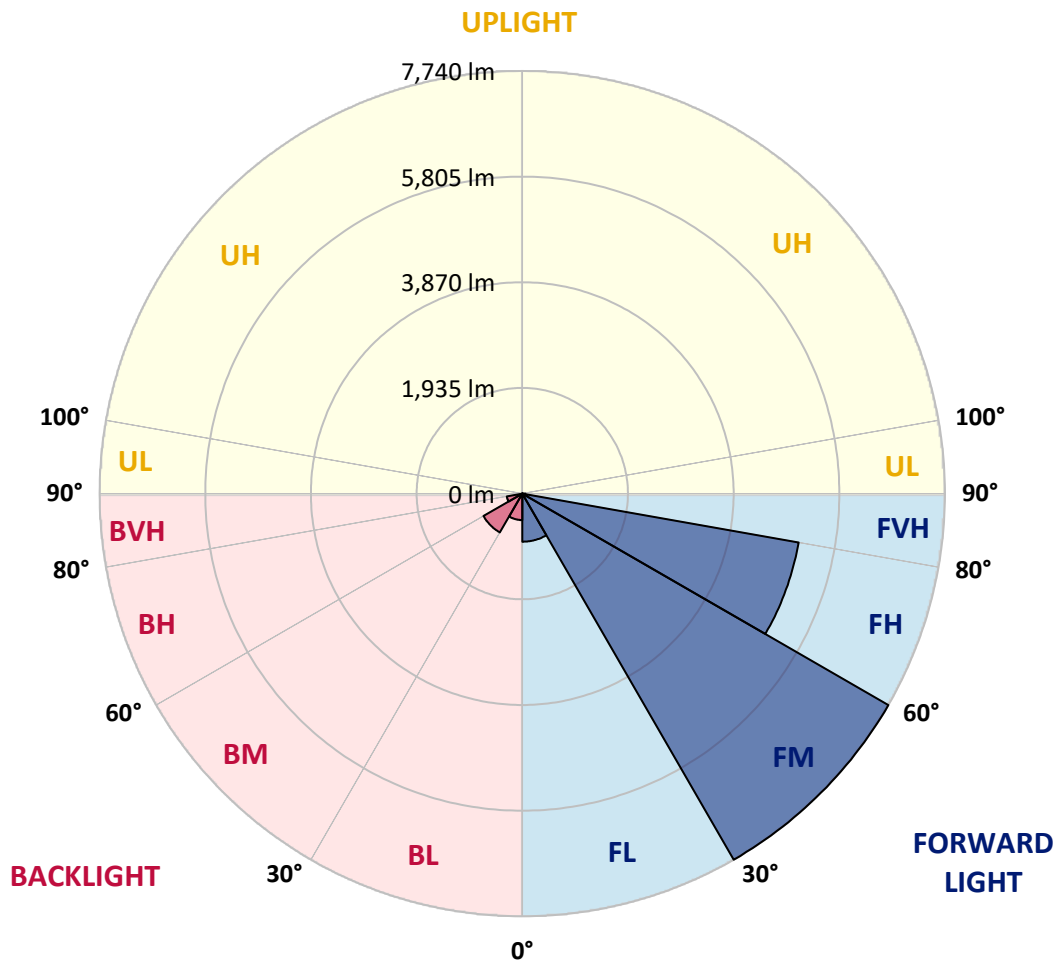
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	880.8	5.7			
FM (30°-60°)	7739.6	50.2			
FH (60°-80°)	5138.8	33.3			G3/7500
FVH (80°-90°)	54.2	0.4			G1/100
BL (0°-30°)	483.9	3.1	B1/500		
BM (30°-60°)	820.6	5.3	B1/1000		
BH (60°-80°)	288.8	1.9	B1/500		G1/500
BVH (80°-90°)	2.2	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-G3**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	1725.1	1725.1	1725.1	1725.1	1725.1	1725.1	1725.1	1725.1	1725.1	1725.1	1725.1
2.5°	1682.2	1688.0	1693.8	1696.1	1704.2	1712.3	1718.1	1717.0	1726.3	1730.9	1730.9
5°	1614.9	1614.9	1630.0	1643.9	1667.1	1690.3	1712.3	1717.0	1734.4	1750.6	1756.4
7.5°	1558.0	1561.5	1573.1	1598.6	1630.0	1670.6	1714.7	1725.1	1755.3	1791.2	1806.3
10°	1531.4	1533.7	1548.8	1575.4	1614.9	1670.6	1732.1	1751.8	1798.2	1855.0	1875.9
12.5°	1525.6	1529.0	1544.1	1574.3	1619.5	1686.8	1770.3	1791.2	1858.5	1931.6	1962.9
15°	1536.0	1538.3	1553.4	1585.9	1635.8	1715.8	1821.4	1850.4	1930.4	2015.1	2055.7
17.5°	1573.1	1570.8	1581.2	1607.9	1663.6	1751.8	1882.9	1917.7	2011.6	2127.7	2154.3
20°	1730.9	1715.8	1706.5	1683.3	1705.4	1802.8	1957.1	2008.2	2124.2	2242.5	2261.1
22.5°	2070.8	2037.2	1971.0	1880.6	1810.9	1872.4	2046.5	2105.6	2255.3	2371.3	2371.3
25°	2503.5	2460.6	2394.5	2197.3	2026.7	1987.3	2147.4	2221.6	2398.0	2515.1	2476.9
27.5°	3045.3	3011.7	2882.9	2653.2	2392.2	2188.0	2264.6	2333.0	2524.4	2666.0	2585.9
30°	3486.2	3469.9	3364.3	3159.0	2871.3	2573.1	2482.7	2527.9	2692.6	2856.2	2773.8
32.5°	3858.6	3858.6	3750.7	3559.2	3290.1	3025.6	2852.7	2885.2	3043.0	3232.1	3079.0
35°	4268.1	4254.2	4167.1	3985.0	3683.4	3450.2	3379.4	3423.5	3566.2	3706.6	3329.5
37.5°	4698.5	4693.8	4603.4	4427.0	4181.1	3887.6	3721.7	3733.3	3806.4	3892.2	3623.1
40°	5166.0	5173.0	5054.6	4945.6	4713.6	4413.1	4095.2	4022.1	4090.6	4333.0	4164.8
42.5°	5718.2	5702.0	5650.9	5502.4	5315.7	5135.8	4754.2	4727.5	4787.8	5047.7	4865.5
45°	6359.8	6383.0	6294.8	6212.4	6087.1	5937.5	5618.5	5572.1	5638.2	6041.9	5783.2
47.5°	7002.5	6980.4	7037.3	7022.2	7089.5	6978.1	6696.2	6601.1	6760.0	7142.9	6762.3
50°	7492.0	7516.4	7634.7	7807.6	8096.5	8159.1	7888.8	7856.3	7927.1	8173.0	7638.2
52.5°	7809.9	7891.1	8076.7	8521.1	9042.0	9446.9	9241.5	9224.1	9195.1	9261.2	8475.8
55°	8017.6	8100.0	8342.4	8996.7	9893.5	10551.3	10561.7	10487.5	10296.1	10248.5	9258.9
57.5°	7890.0	7906.2	8251.9	9126.7	10365.7	11339.0	11680.1	11605.8	11252.0	11072.2	9950.3
60°	7091.8	7125.5	7606.9	8634.8	10160.3	11596.6	12421.4	12387.8	12000.3	11797.3	10488.6
62.5°	5677.6	5775.1	6270.4	7416.6	9205.5	11162.7	12721.9	12817.0	12515.4	12235.8	10658.0
63°	5417.8	5386.4	5909.6	7061.6	8952.6	10948.0	12726.5	12847.2	12538.6	12277.5	10611.6
65°	4010.5	4104.5	4444.4	5568.6	7450.3	9949.2	12440.0	12653.4	12452.7	12093.1	10097.7
67.5°	2251.8	2247.2	2623.0	3643.9	5214.7	7804.1	11248.5	11699.8	11658.0	10851.8	8370.3
70°	1102.1	1119.5	1273.8	1888.7	3024.4	5384.1	9347.1	9834.3	9849.4	8523.4	5787.8
72.5°	498.9	507.0	617.2	920.0	1554.6	2866.7	6441.0	6906.2	6820.3	5431.7	3196.1
75°	263.3	280.7	339.9	462.9	749.4	1182.2	3503.6	3953.7	3773.9	2481.5	1176.4
77.5°	194.9	200.7	230.9	294.7	401.4	460.6	1511.6	1798.2	1684.5	897.9	389.8
80°	142.7	147.3	171.7	208.8	252.9	234.3	569.6	653.1	585.9	305.1	119.5
82.5°	87.0	88.2	125.3	155.5	158.9	131.1	187.9	201.9	211.1	171.7	65.0
85°	31.3	39.4	84.7	112.5	94.0	66.1	78.9	87.0	95.1	109.1	38.3
87.5°	3.5	4.6	40.6	54.5	26.7	24.4	29.0	32.5	34.8	40.6	18.6
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°	1725.1	1725.1	1725.1	1725.1	1725.1	1725.1	1725.1	1725.1	1725.1	1725.1	1725.1
2.5°	1735.5	1740.2	1736.7	1730.9	1729.7	1726.3	1719.3	1719.3	1719.3	1721.6	1719.3
5°	1761.1	1764.5	1756.4	1744.8	1732.1	1715.8	1698.4	1688.0	1686.8	1684.5	1678.7
7.5°	1809.8	1814.4	1795.9	1768.0	1733.2	1693.8	1656.7	1621.8	1605.6	1592.8	1592.8
10°	1880.6	1885.2	1848.1	1798.2	1728.6	1648.5	1560.4	1480.3	1417.7	1388.7	1381.7
12.5°	1965.2	1967.6	1906.1	1819.1	1704.2	1549.9	1362.0	1186.8	1065.0	1009.3	1003.5
15°	2058.1	2041.8	1960.6	1827.2	1634.6	1346.9	1022.1	807.4	681.0	643.9	657.8
17.5°	2152.0	2121.9	2002.4	1814.4	1478.0	1022.1	686.8	551.1	511.6	501.2	501.2
20°	2240.2	2198.4	2032.5	1758.7	1206.5	704.2	509.3	476.8	469.8	462.9	464.0
22.5°	2328.4	2264.6	2059.2	1634.6	899.1	503.5	455.9	445.5	436.2	426.9	425.8
25°	2414.2	2326.0	2069.7	1404.9	612.5	432.7	416.5	402.6	384.0	373.6	371.2
27.5°	2503.5	2400.3	2062.7	1114.9	446.6	387.5	371.2	351.5	329.5	310.9	310.9
30°	2675.2	2541.8	2038.3	801.6	375.9	341.1	320.2	288.9	264.5	245.9	244.8
32.5°	2909.6	2726.3	1954.8	563.8	334.1	300.5	269.1	234.3	208.8	194.9	194.9
35°	3118.4	2911.9	1798.2	415.3	300.5	261.0	222.7	189.1	169.4	160.1	156.6
37.5°	3436.3	3183.4	1582.4	337.6	268.0	226.2	186.8	155.5	139.2	132.3	132.3
40°	3913.1	3515.2	1317.9	295.8	236.7	192.6	155.5	131.1	118.3	110.2	110.2
42.5°	4504.7	3921.2	1049.9	265.7	207.7	165.9	129.9	111.4	99.8	94.0	92.8
45°	5249.5	4349.3	808.6	237.8	184.5	141.5	110.2	94.0	82.4	78.9	80.0
47.5°	6026.8	4726.3	626.5	213.5	160.1	119.5	94.0	81.2	73.1	68.4	68.4
50°	6690.4	4986.2	475.6	185.6	141.5	100.9	82.4	73.1	66.1	63.8	62.6
52.5°	7244.9	5061.6	364.3	161.3	124.1	87.0	73.1	66.1	60.3	56.8	56.8
55°	7717.1	4995.5	285.4	135.7	104.4	75.4	65.0	59.2	52.2	48.7	47.6
57.5°	7993.2	4783.2	218.1	112.5	84.7	62.6	56.8	49.9	41.8	36.0	36.0
60°	8132.4	4474.6	167.1	92.8	65.0	49.9	46.4	37.1	29.0	24.4	23.2
62.5°	7965.4	4065.1	126.5	73.1	48.7	37.1	31.3	26.7	18.6	13.9	13.9
63°	7862.1	3946.7	121.8	69.6	45.2	34.8	29.0	24.4	16.2	12.8	11.6
65°	7167.2	3430.5	99.8	55.7	36.0	24.4	19.7	17.4	11.6	5.8	4.6
67.5°	5691.5	2624.2	78.9	41.8	25.5	17.4	11.6	10.4	3.5	0.0	0.0
70°	3848.1	1694.9	61.5	30.2	17.4	10.4	5.8	4.6	1.2	0.0	0.0
72.5°	2007.0	868.9	47.6	22.0	10.4	7.0	3.5	1.2	0.0	0.0	0.0
75°	710.0	295.8	34.8	13.9	7.0	3.5	1.2	0.0	0.0	0.0	0.0
77.5°	214.6	110.2	22.0	10.4	4.6	2.3	0.0	0.0	0.0	0.0	0.0
80°	75.4	40.6	12.8	7.0	3.5	1.2	0.0	0.0	0.0	0.0	0.0
82.5°	37.1	19.7	8.1	5.8	3.5	1.2	0.0	0.0	0.0	0.0	0.0
85°	20.9	12.8	7.0	5.8	3.5	2.3	0.0	0.0	0.0	0.0	0.0
87.5°	15.1	9.3	7.0	5.8	4.6	2.3	1.2	0.0	0.0	0.0	0.0
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)