

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: P454161

Luminaire Tested: **GALN-SA5B-727-U-T4W-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P454161  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-27)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA5B-727-U-T4W-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 17240 lumens  
Efficiency: N/A  
Efficacy: 84.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G3

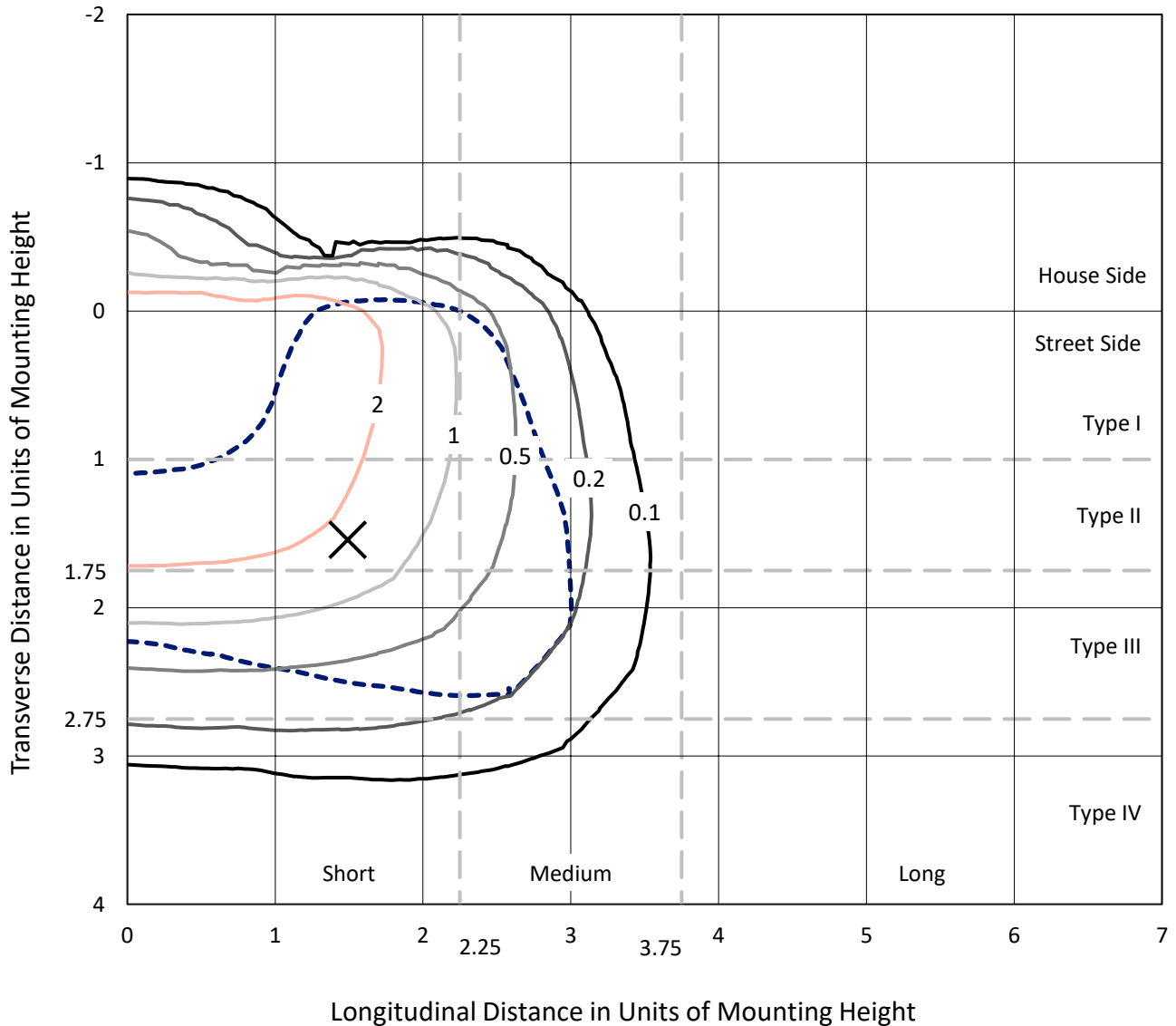
Input Watts (W): 204  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

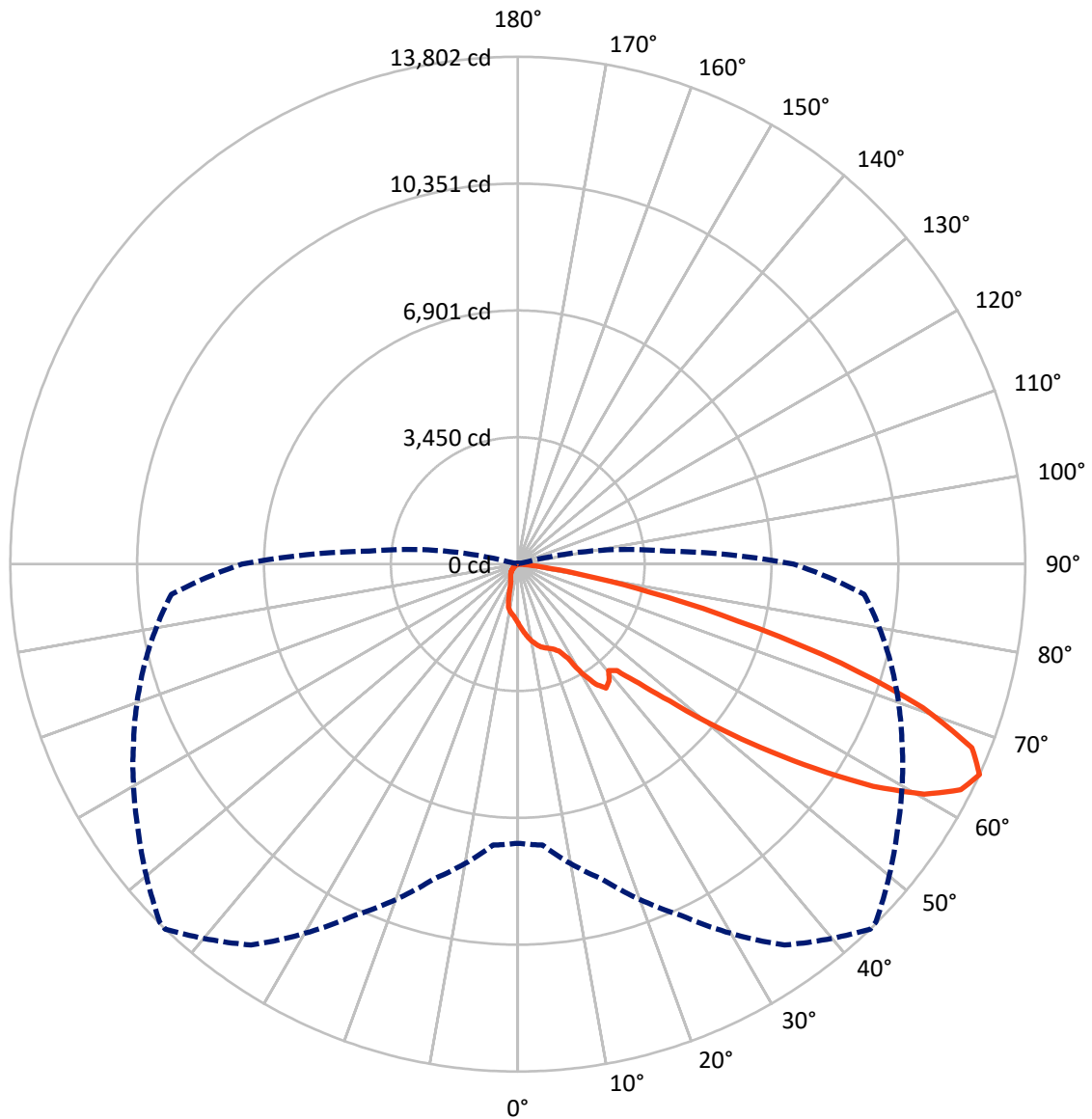
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.7 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 44-Deg Lateral    - - - Horizontal Cone Through 65-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1588.4	0.0	1588.4
	% Fixture	9.2	0.0	9.2
<b>Street Side</b>	Lumens	15651.6	0.0	15651.6
	% Fixture	90.8	0.0	90.8
<b>Total</b>	Lumens	17240.0	0.0	17240.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	159.6	0.9
10°-20°	480.3	2.8
20°-30°	814.4	4.7
30°-40°	1354.1	7.9
40°-50°	2364.3	13.7
50°-60°	4619.0	26.8
60°-70°	5359.2	31.1
70°-80°	1951.5	11.3
80°-90°	137.5	0.8
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°	17240.0	100.0
0°-180°	17240.0	100.0

**Coefficient of Utilization**



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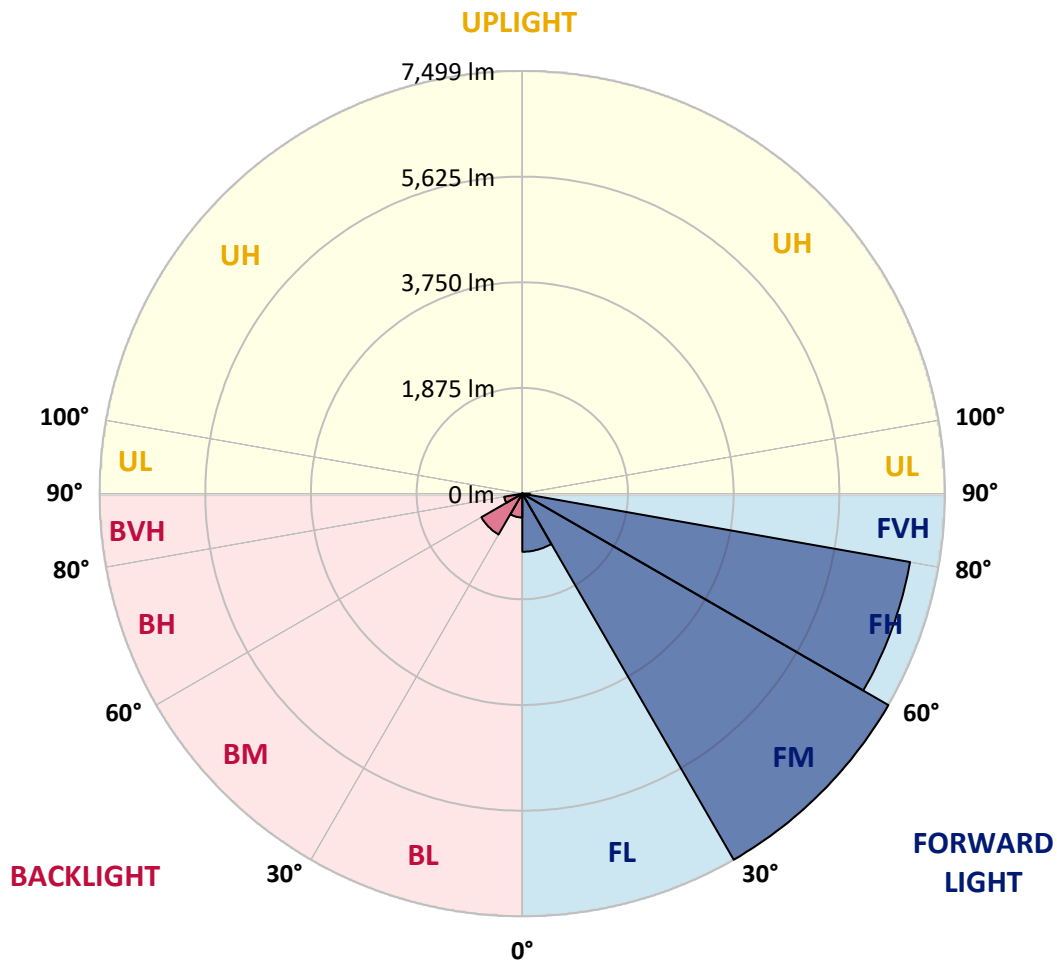
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1031.1	6.0			
FM (30°-60°)	7499.4	43.5			
FH (60°-80°)	6985.4	40.5			G3/7500
FVH (80°-90°)	135.6	0.8			G2/225
BL (0°-30°)	423.2	2.5	B1/500		
BM (30°-60°)	838.1	4.9	B1/1000		
BH (60°-80°)	325.3	1.9	B1/500		G1/500
BVH (80°-90°)	1.9	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°	44°	45°	55°	65°	75°	85°
0°	1604.5	1604.5	1604.5	1604.5	1604.5	1604.5	1604.5	1604.5	1604.5	1604.5	1604.5
2.5°	1806.1	1798.2	1794.2	1773.2	1757.3	1737.6	1737.6	1712.6	1683.6	1652.0	1623.0
5°	2007.6	1994.5	1977.3	1958.9	1922.0	1869.3	1869.3	1816.6	1756.0	1702.0	1642.7
7.5°	2201.3	2189.4	2160.5	2124.9	2064.3	2009.0	2005.0	1928.6	1856.1	1774.5	1690.2
10°	2371.2	2362.0	2337.0	2268.5	2205.2	2132.8	2131.5	2045.8	1961.5	1861.4	1757.3
12.5°	2489.8	2491.1	2458.2	2392.3	2310.6	2242.1	2236.9	2152.5	2064.3	1956.3	1828.5
15°	2574.1	2574.1	2539.8	2466.1	2392.3	2331.7	2326.4	2252.7	2161.8	2044.5	1906.2
17.5°	2597.8	2605.7	2568.8	2503.0	2443.7	2391.0	2389.7	2327.8	2255.3	2142.0	1985.2
20°	2588.6	2596.5	2567.5	2516.1	2475.3	2445.0	2441.0	2416.0	2348.8	2242.1	2069.6
22.5°	2568.8	2576.7	2555.7	2525.4	2505.6	2514.8	2508.2	2529.3	2493.7	2364.6	2169.7
25°	2572.8	2580.7	2564.9	2547.8	2564.9	2621.5	2638.6	2729.5	2697.9	2520.1	2277.7
27.5°	2696.6	2712.4	2690.0	2697.9	2758.5	2890.3	2923.2	3080.0	2940.3	2717.7	2446.3
30°	2971.9	2961.4	2919.2	2957.4	3168.2	3447.5	3438.3	3413.2	3194.6	2945.6	2646.6
32.5°	3222.2	3213.0	3210.4	3375.0	3757.1	3892.8	3886.2	3643.8	3422.5	3206.4	2844.2
35°	3323.7	3288.1	3280.2	3679.4	4318.3	4139.1	4098.3	3738.6	3699.1	3491.0	3045.7
37.5°	3629.3	3604.3	3481.8	3729.4	4094.3	4035.0	4003.4	3902.0	3994.2	3742.6	3273.6
40°	4259.0	4189.2	4078.5	3836.1	3776.8	3801.9	3833.5	4111.4	4343.3	4086.4	3577.9
42.5°	5041.5	5025.7	4820.2	4368.3	3924.4	3958.6	3999.5	4548.8	4845.2	4604.1	4074.6
45°	5980.8	6003.2	5706.8	5173.2	4591.0	4619.9	4679.2	5194.3	5525.0	5409.0	4855.7
47.5°	6834.4	6817.3	6717.2	6162.6	5625.1	5560.5	5656.7	6022.9	6465.5	6484.0	5825.3
50°	7693.3	7784.2	7635.3	7418.0	7018.8	6883.1	6847.6	7026.7	7701.2	7613.0	6989.8
52.5°	8927.7	8975.1	8695.8	8640.5	8731.4	8291.4	8255.8	8299.3	8902.6	8599.6	7861.9
55°	9703.6	9675.9	9571.9	10003.9	10363.6	9814.2	9769.5	9594.2	9899.9	9296.5	8701.1
57.5°	9948.6	9988.1	10230.5	11011.7	11862.7	11396.4	11314.7	10816.7	10619.1	9946.0	9473.0
60°	9839.3	9911.7	10434.7	11596.6	12777.0	12707.1	12637.3	11800.8	11135.5	10488.7	10014.5
62.5°	9060.7	9162.2	9998.7	11492.5	13086.5	13522.6	13435.6	12414.7	11479.4	10752.2	10109.3
65°	7593.2	7668.3	8869.7	10548.0	12646.5	13801.9	13770.2	12607.0	11533.4	10511.1	9459.9
67.5°	5413.0	5668.5	6781.7	8889.5	11345.0	13325.0	13379.0	12376.5	11026.2	9469.1	7834.3
70°	3402.7	3576.6	4374.9	6364.1	9095.0	11690.1	11868.0	11321.3	9569.2	7381.1	5244.4
72.5°	1623.0	1752.1	2321.2	4028.5	6419.4	9197.7	9338.7	9293.9	7399.5	4650.2	2705.8
75°	723.2	772.0	1107.9	2056.4	4144.4	6182.3	6547.2	6607.8	4623.9	2275.1	1052.6
77.5°	368.9	370.2	519.0	995.9	2069.6	3688.6	3761.0	3973.1	2506.9	1002.5	366.2
80°	196.3	209.5	275.3	470.3	1073.6	1816.6	1807.4	1986.6	1111.8	491.4	122.5
82.5°	88.3	97.5	155.4	246.3	524.3	689.0	743.0	812.8	476.9	313.5	54.0
85°	26.3	31.6	76.4	123.8	189.7	198.9	222.6	287.2	270.1	222.6	27.7
87.5°	4.0	4.0	31.6	34.3	27.7	35.6	36.9	40.8	86.9	81.7	14.5
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°	1604.5	1604.5	1604.5	1604.5	1604.5	1604.5	1604.5	1604.5	1604.5	1604.5	1604.5
2.5°	1607.2	1597.9	1565.0	1537.3	1513.6	1499.1	1482.0	1471.5	1466.2	1462.3	1463.6
5°	1613.8	1591.4	1534.7	1489.9	1455.7	1418.8	1393.8	1379.3	1372.7	1362.1	1362.1
7.5°	1650.6	1615.1	1536.0	1467.5	1408.2	1358.2	1310.8	1293.6	1281.8	1279.1	1276.5
10°	1703.3	1658.5	1550.5	1455.7	1371.4	1302.9	1235.7	1176.4	1130.3	1102.6	1098.7
12.5°	1769.2	1704.6	1572.9	1447.8	1339.7	1218.5	1040.7	920.8	840.5	815.4	819.4
15°	1829.8	1760.0	1595.3	1441.2	1281.8	1010.4	808.9	671.8	631.0	627.1	628.4
17.5°	1902.3	1819.3	1621.7	1432.0	1122.4	772.0	600.7	563.8	571.7	584.9	583.6
20°	1977.3	1882.5	1653.3	1376.6	895.8	581.0	530.9	534.8	546.7	558.6	561.2
22.5°	2057.7	1954.9	1690.2	1243.6	683.7	505.9	503.2	508.5	520.4	533.5	536.2
25°	2168.4	2045.8	1717.8	1069.7	517.7	467.7	472.9	482.1	492.7	507.2	509.8
27.5°	2310.6	2168.4	1732.3	843.1	447.9	433.4	434.7	447.9	461.1	474.2	474.2
30°	2495.1	2314.6	1703.3	637.6	413.6	400.5	395.2	403.1	420.2	433.4	434.7
32.5°	2659.7	2452.9	1626.9	487.4	388.6	370.2	357.0	358.3	364.9	372.8	374.1
35°	2824.4	2587.3	1496.5	409.7	362.3	341.2	321.4	310.9	305.6	301.7	305.6
37.5°	3035.2	2754.6	1322.6	372.8	339.9	313.5	285.9	263.5	245.0	233.2	235.8
40°	3306.5	2986.4	1117.1	349.1	318.8	287.2	250.3	221.3	189.7	179.2	173.9
42.5°	3754.4	3338.2	901.1	329.3	297.7	259.5	213.4	173.9	144.9	134.4	137.0
45°	4461.9	3782.1	694.2	308.3	276.6	229.2	179.2	137.0	113.3	108.0	110.7
47.5°	5399.8	4356.5	534.8	284.5	250.3	196.3	141.0	108.0	93.5	92.2	90.9
50°	6282.4	4891.3	446.6	258.2	218.7	163.4	115.9	90.9	81.7	80.4	80.4
52.5°	7080.7	5274.7	363.6	227.9	184.4	134.4	97.5	80.4	72.5	68.5	68.5
55°	7790.8	5525.0	295.1	191.0	144.9	106.7	84.3	72.5	63.2	58.0	56.6
57.5°	8327.0	5555.3	221.3	152.8	108.0	83.0	72.5	63.2	52.7	46.1	43.5
60°	8556.2	5293.1	163.4	115.9	80.4	65.9	58.0	51.4	39.5	32.9	31.6
62.5°	8325.6	4783.3	121.2	88.3	61.9	48.7	40.8	38.2	27.7	19.8	18.4
65°	7499.7	4046.9	96.2	67.2	46.1	35.6	26.3	25.0	17.1	9.2	7.9
67.5°	6008.4	3169.5	76.4	50.1	32.9	23.7	17.1	15.8	9.2	2.6	2.6
70°	3907.3	2026.1	61.9	36.9	21.1	15.8	10.5	7.9	5.3	1.3	0.0
72.5°	1932.5	947.2	50.1	29.0	14.5	7.9	4.0	2.6	4.0	0.0	0.0
75°	749.6	337.2	36.9	19.8	7.9	4.0	2.6	0.0	1.3	0.0	0.0
77.5°	249.0	112.0	22.4	10.5	5.3	2.6	0.0	0.0	0.0	0.0	0.0
80°	92.2	43.5	11.9	6.6	2.6	1.3	0.0	0.0	0.0	0.0	0.0
82.5°	36.9	17.1	7.9	5.3	2.6	0.0	0.0	0.0	0.0	0.0	0.0
85°	18.4	10.5	5.3	4.0	2.6	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	13.2	7.9	5.3	4.0	2.6	1.3	0.0	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)