

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: P454155

Luminaire Tested: **GALN-SA5B-727-U-T3-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P454155  
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-SA5B-727-U-T3-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 2700K, 800mA 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: 17497 lumens  
Efficiency: N/A  
Efficacy: 85.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G3

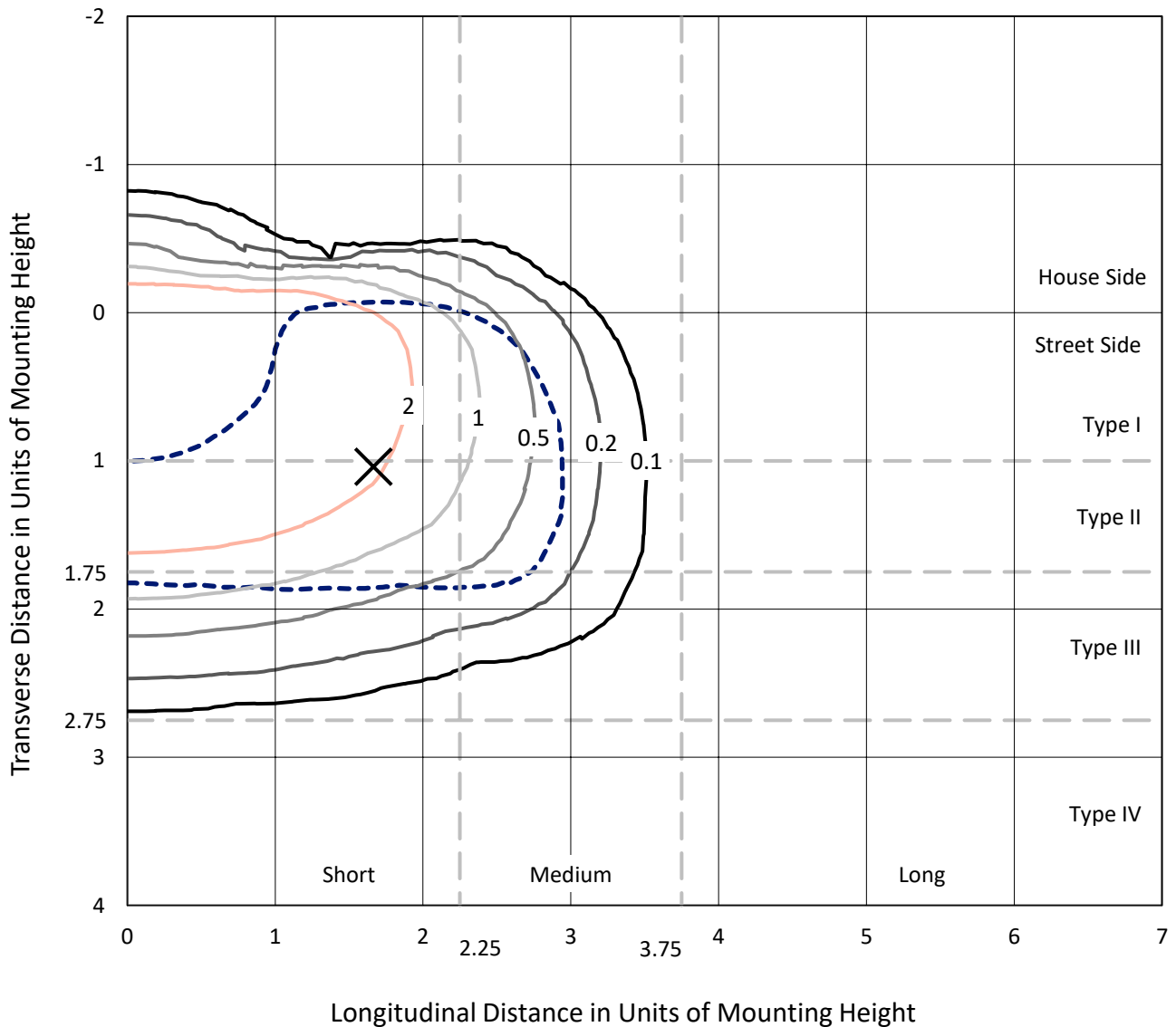
Input Watts (W): 204  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

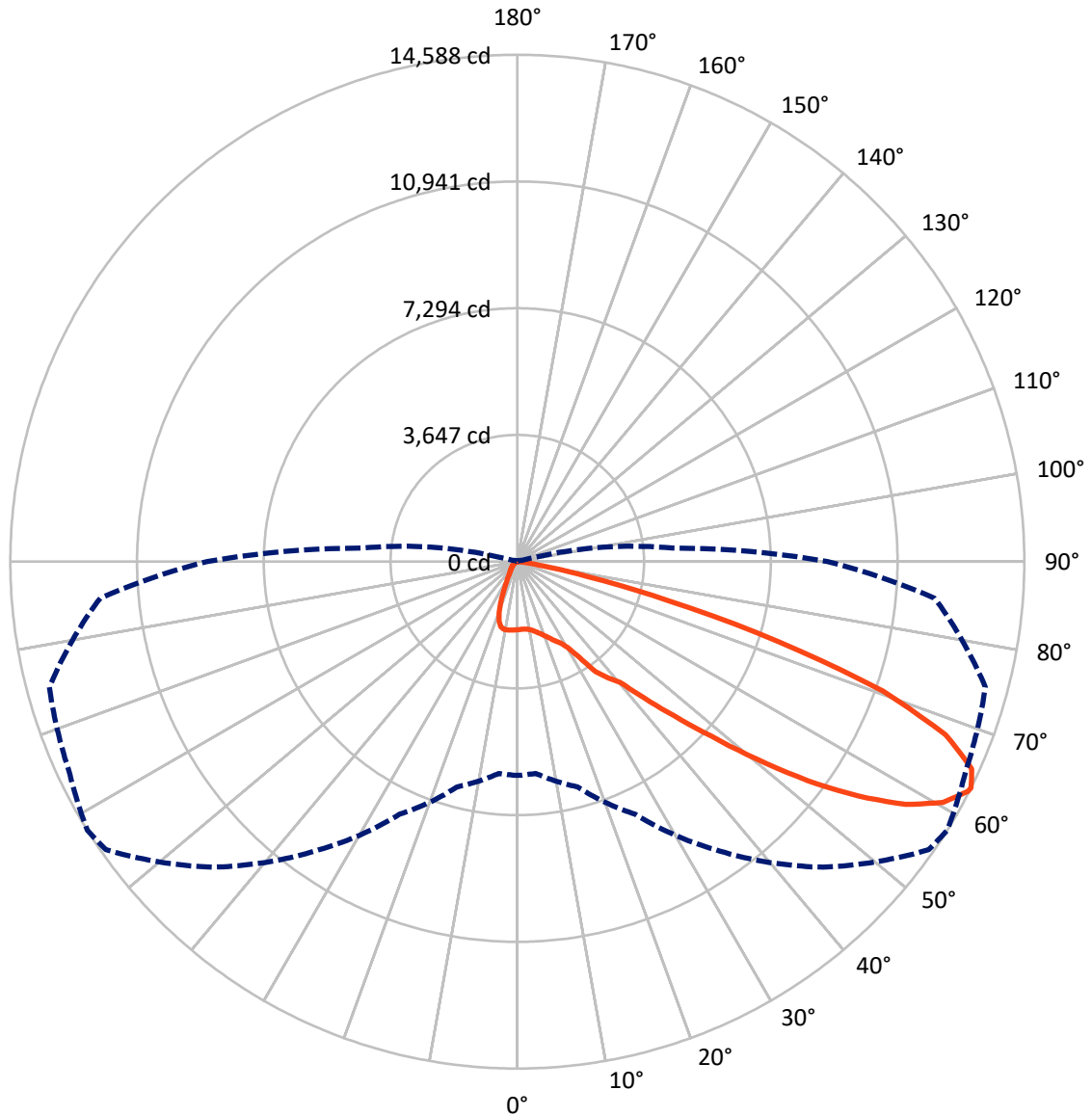
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.3 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	1811.7	0.0	1811.7
	% Fixture	10.4	0.0	10.4
<b>Street Side</b>	Lumens	15685.3	0.0	15685.3
	% Fixture	89.6	0.0	89.6
<b>Total</b>	Lumens	17497.0	0.0	17497.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	183.4	1.0
10°-20°	499.5	2.9
20°-30°	866.8	5.0
30°-40°	1592.9	9.1
40°-50°	2998.6	17.1
50°-60°	5128.8	29.3
60°-70°	4910.8	28.1
70°-80°	1252.3	7.2
80°-90°	64.0	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°	17497.0	100.0
0°-180°	17497.0	100.0

**Coefficient of Utilization**



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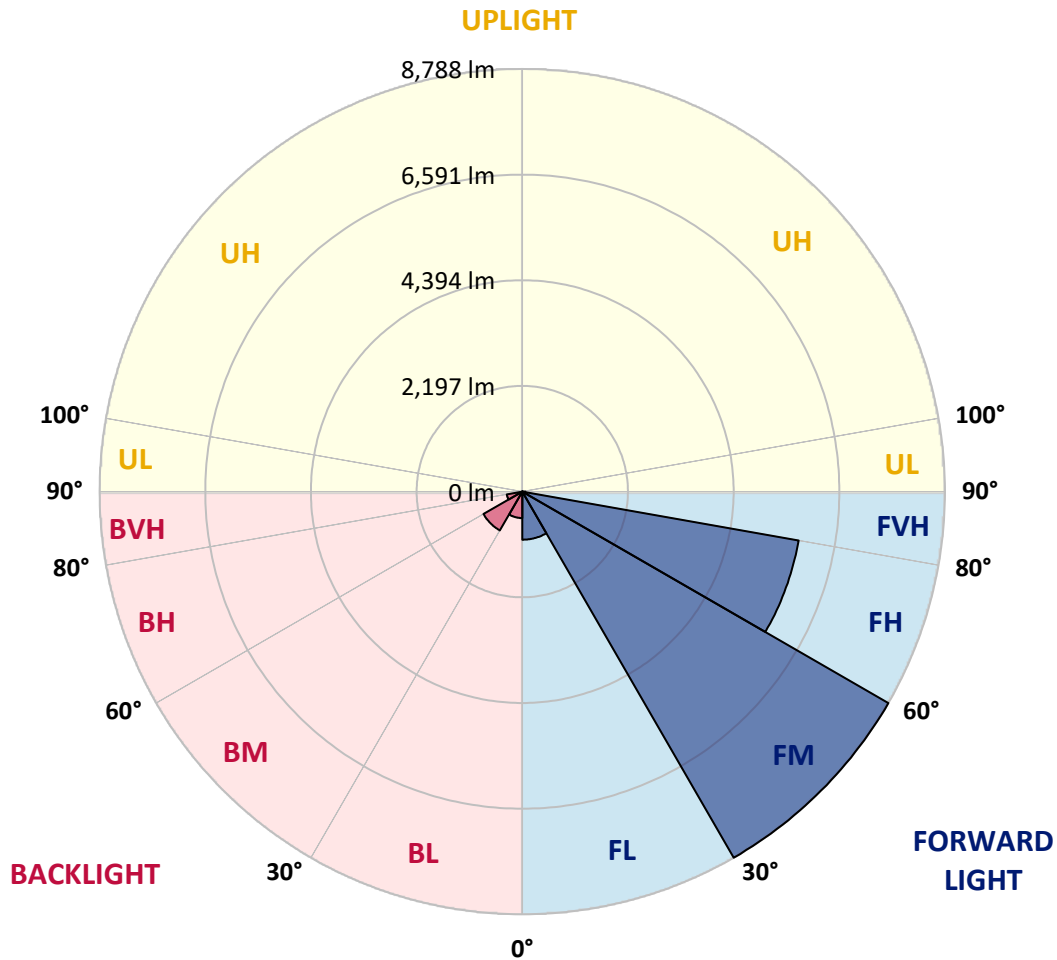
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1000.2	5.7			
FM	(30°-60°)	8788.4	50.2			
FH	(60°-80°)	5835.2	33.3			G3/7500
FVH	(80°-90°)	61.6	0.4			G1/100
BL	(0°-30°)	549.4	3.1	B2/1000		
BM	(30°-60°)	931.8	5.3	B1/1000		
BH	(60°-80°)	328.0	1.9	B1/500		G1/500
BVH	(80°-90°)	2.5	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G3**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	1958.9	1958.9	1958.9	1958.9	1958.9	1958.9	1958.9	1958.9	1958.9	1958.9	1958.9
2.5°	1910.1	1916.7	1923.3	1925.9	1935.1	1944.4	1951.0	1949.6	1960.2	1965.4	1965.4
5°	1833.7	1833.7	1850.8	1866.6	1893.0	1919.3	1944.4	1949.6	1969.4	1987.8	1994.4
7.5°	1769.2	1773.1	1786.3	1815.3	1850.8	1896.9	1947.0	1958.9	1993.1	2033.9	2051.1
10°	1738.9	1741.5	1758.6	1788.9	1833.7	1896.9	1966.8	1989.2	2041.8	2106.4	2130.1
12.5°	1732.3	1736.2	1753.4	1787.6	1839.0	1915.4	2010.2	2033.9	2110.3	2193.3	2228.9
15°	1744.1	1746.8	1763.9	1800.8	1857.4	1948.3	2068.2	2101.1	2192.0	2288.2	2334.3
17.5°	1786.3	1783.7	1795.5	1825.8	1889.0	1989.2	2138.0	2177.5	2284.2	2416.0	2446.3
20°	1965.4	1948.3	1937.8	1911.4	1936.5	2047.1	2222.3	2280.3	2412.0	2546.4	2567.5
22.5°	2351.4	2313.2	2238.1	2135.4	2056.3	2126.2	2323.8	2390.9	2560.9	2692.6	2692.6
25°	2842.8	2794.0	2719.0	2495.0	2301.4	2256.6	2438.4	2522.7	2722.9	2856.0	2812.5
27.5°	3458.0	3419.8	3273.5	3012.7	2716.3	2484.5	2571.4	2649.1	2866.5	3027.2	2936.3
30°	3958.6	3940.1	3820.2	3587.1	3260.4	2921.8	2819.1	2870.4	3057.5	3243.2	3149.7
32.5°	4381.4	4381.4	4258.9	4041.5	3735.9	3435.6	3239.3	3276.2	3455.3	3670.1	3496.2
35°	4846.4	4830.6	4731.8	4525.0	4182.5	3917.7	3837.4	3887.4	4049.4	4208.8	3780.7
37.5°	5335.2	5329.9	5227.1	5026.9	4747.6	4414.3	4226.0	4239.1	4322.1	4419.6	4114.0
40°	5866.0	5873.9	5739.6	5615.7	5352.3	5011.1	4650.1	4567.2	4644.9	4920.2	4729.2
42.5°	6493.1	6474.6	6416.7	6248.1	6036.0	5831.8	5398.4	5368.1	5436.6	5731.7	5524.8
45°	7221.6	7247.9	7147.8	7054.3	6912.0	6742.1	6379.8	6327.1	6402.2	6860.6	6566.8
47.5°	7951.4	7926.3	7990.9	7973.7	8050.2	7923.7	7603.6	7495.6	7676.0	8110.7	7678.7
50°	8507.3	8534.9	8669.3	8865.6	9193.6	9264.7	8957.8	8920.9	9001.3	9280.5	8673.2
52.5°	8868.2	8960.4	9171.2	9675.7	10267.2	10726.9	10493.8	10474.0	10441.1	10516.2	9624.3
55°	9104.0	9197.5	9472.9	10215.8	11234.1	11981.0	11992.9	11908.6	11691.2	11637.2	10513.5
57.5°	8959.1	8977.5	9370.1	10363.4	11770.3	12875.5	13262.8	13178.5	12776.7	12572.5	11298.7
60°	8052.8	8091.0	8637.7	9804.8	11537.1	13167.9	14104.6	14066.4	13626.4	13395.8	11909.9
62.5°	6447.0	6557.6	7120.1	8421.6	10452.9	12675.3	14445.7	14553.8	14211.3	13893.8	12102.2
63°	6151.9	6116.3	6710.4	8018.5	10165.8	12431.6	14451.0	14588.0	14237.6	13941.2	12049.5
65°	4554.0	4660.7	5046.7	6323.1	8459.8	11297.3	14125.6	14368.0	14140.1	13731.8	11466.0
67.5°	2556.9	2551.7	2978.5	4137.7	5921.4	8861.6	12772.7	13285.2	13237.8	12322.2	9504.5
70°	1251.5	1271.2	1446.4	2144.6	3434.3	6113.7	10613.7	11166.9	11184.1	9678.4	6572.1
72.5°	566.4	575.7	700.8	1044.6	1765.2	3255.1	7313.8	7842.0	7744.5	6167.7	3629.2
75°	299.0	318.8	386.0	525.6	851.0	1342.4	3978.3	4489.4	4285.2	2817.8	1335.8
77.5°	221.3	227.9	262.1	334.6	455.8	523.0	1716.5	2041.8	1912.8	1019.6	442.6
80°	162.0	167.3	195.0	237.1	287.2	266.1	646.8	741.7	665.2	346.5	135.7
82.5°	98.8	100.1	142.3	176.5	180.5	148.9	213.4	229.2	239.8	195.0	73.8
85°	35.6	44.8	96.2	127.8	106.7	75.1	89.6	98.8	108.0	123.8	43.5
87.5°	4.0	5.3	46.1	61.9	30.3	27.7	32.9	36.9	39.5	46.1	21.1
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°	1958.9	1958.9	1958.9	1958.9	1958.9	1958.9	1958.9	1958.9	1958.9	1958.9	1958.9
2.5°	1970.7	1976.0	1972.0	1965.4	1964.1	1960.2	1952.3	1952.3	1952.3	1954.9	1952.3
5°	1999.7	2003.6	1994.4	1981.3	1966.8	1948.3	1928.6	1916.7	1915.4	1912.8	1906.2
7.5°	2055.0	2060.3	2039.2	2007.6	1968.1	1923.3	1881.1	1841.6	1823.2	1808.7	1808.7
10°	2135.4	2140.6	2098.5	2041.8	1962.8	1871.9	1771.8	1680.9	1609.8	1576.8	1568.9
12.5°	2231.5	2234.2	2164.4	2065.6	1935.1	1759.9	1546.5	1347.6	1209.3	1146.1	1139.5
15°	2336.9	2318.5	2226.3	2074.8	1856.1	1529.4	1160.6	916.9	773.3	731.1	746.9
17.5°	2443.6	2409.4	2273.7	2060.3	1678.3	1160.6	779.9	625.7	580.9	569.1	569.1
20°	2543.7	2496.3	2307.9	1997.1	1370.0	799.6	578.3	541.4	533.5	525.6	526.9
22.5°	2643.9	2571.4	2338.2	1856.1	1020.9	571.7	517.7	505.9	495.3	484.8	483.5
25°	2741.3	2641.2	2350.1	1595.3	695.5	491.4	472.9	457.1	436.0	424.2	421.5
27.5°	2842.8	2725.5	2342.2	1265.9	507.2	440.0	421.5	399.1	374.1	353.0	353.0
30°	3037.7	2886.3	2314.5	910.3	426.8	387.3	363.6	328.0	300.3	279.3	278.0
32.5°	3303.8	3095.7	2219.7	640.2	379.4	341.2	305.6	266.1	237.1	221.3	221.3
35°	3541.0	3306.5	2041.8	471.6	341.2	296.4	252.9	214.7	192.3	181.8	177.8
37.5°	3901.9	3614.7	1796.8	383.3	304.3	256.9	212.1	176.5	158.1	150.2	150.2
40°	4443.3	3991.5	1496.5	335.9	268.7	218.7	176.5	148.9	134.4	125.1	125.1
42.5°	5115.2	4452.5	1192.2	301.7	235.8	188.4	147.5	126.5	113.3	106.7	105.4
45°	5960.9	4938.6	918.2	270.1	209.5	160.7	125.1	106.7	93.5	89.6	90.9
47.5°	6843.5	5366.8	711.4	242.4	181.8	135.7	106.7	92.2	83.0	77.7	77.7
50°	7597.0	5661.8	540.1	210.8	160.7	114.6	93.5	83.0	75.1	72.5	71.1
52.5°	8226.7	5747.5	413.6	183.1	141.0	98.8	83.0	75.1	68.5	64.5	64.5
55°	8762.8	5672.4	324.1	154.1	118.6	85.6	73.8	67.2	59.3	55.3	54.0
57.5°	9076.3	5431.3	247.7	127.8	96.2	71.1	64.5	56.6	47.4	40.8	40.8
60°	9234.4	5080.9	189.7	105.4	73.8	56.6	52.7	42.2	32.9	27.7	26.3
62.5°	9044.7	4615.9	143.6	83.0	55.3	42.2	35.6	30.3	21.1	15.8	15.8
63°	8927.5	4481.5	138.3	79.0	51.4	39.5	32.9	27.7	18.4	14.5	13.2
65°	8138.4	3895.3	113.3	63.2	40.8	27.7	22.4	19.8	13.2	6.6	5.3
67.5°	6462.8	2979.8	89.6	47.4	29.0	19.8	13.2	11.9	4.0	0.0	0.0
70°	4369.6	1924.6	69.8	34.3	19.8	11.9	6.6	5.3	1.3	0.0	0.0
72.5°	2279.0	986.7	54.0	25.0	11.9	7.9	4.0	1.3	0.0	0.0	0.0
75°	806.2	335.9	39.5	15.8	7.9	4.0	1.3	0.0	0.0	0.0	0.0
77.5°	243.7	125.1	25.0	11.9	5.3	2.6	0.0	0.0	0.0	0.0	0.0
80°	85.6	46.1	14.5	7.9	4.0	1.3	0.0	0.0	0.0	0.0	0.0
82.5°	42.2	22.4	9.2	6.6	4.0	1.3	0.0	0.0	0.0	0.0	0.0
85°	23.7	14.5	7.9	6.6	4.0	2.6	0.0	0.0	0.0	0.0	0.0
87.5°	17.1	10.5	7.9	6.6	5.3	2.6	1.3	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)