

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: P455924

Luminaire Tested: **GALN-SA7A-827-U-T3-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P455924  
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-SA7A-827-U-T3-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 80 CRI, 2700K, 615mA 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: 17191 lumens  
Efficiency: N/A  
Efficacy: 80.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G3

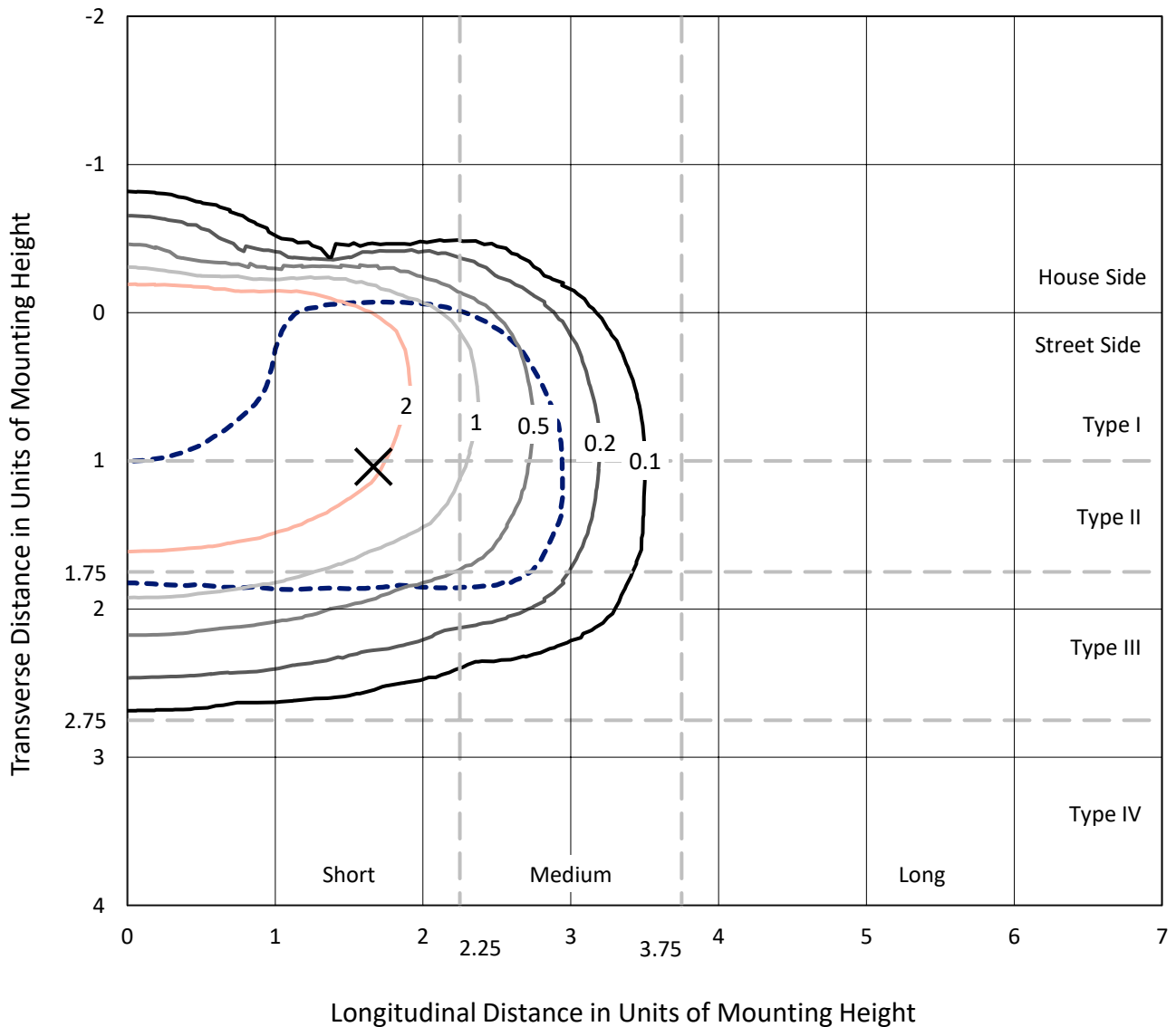
Input Watts (W): 215  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

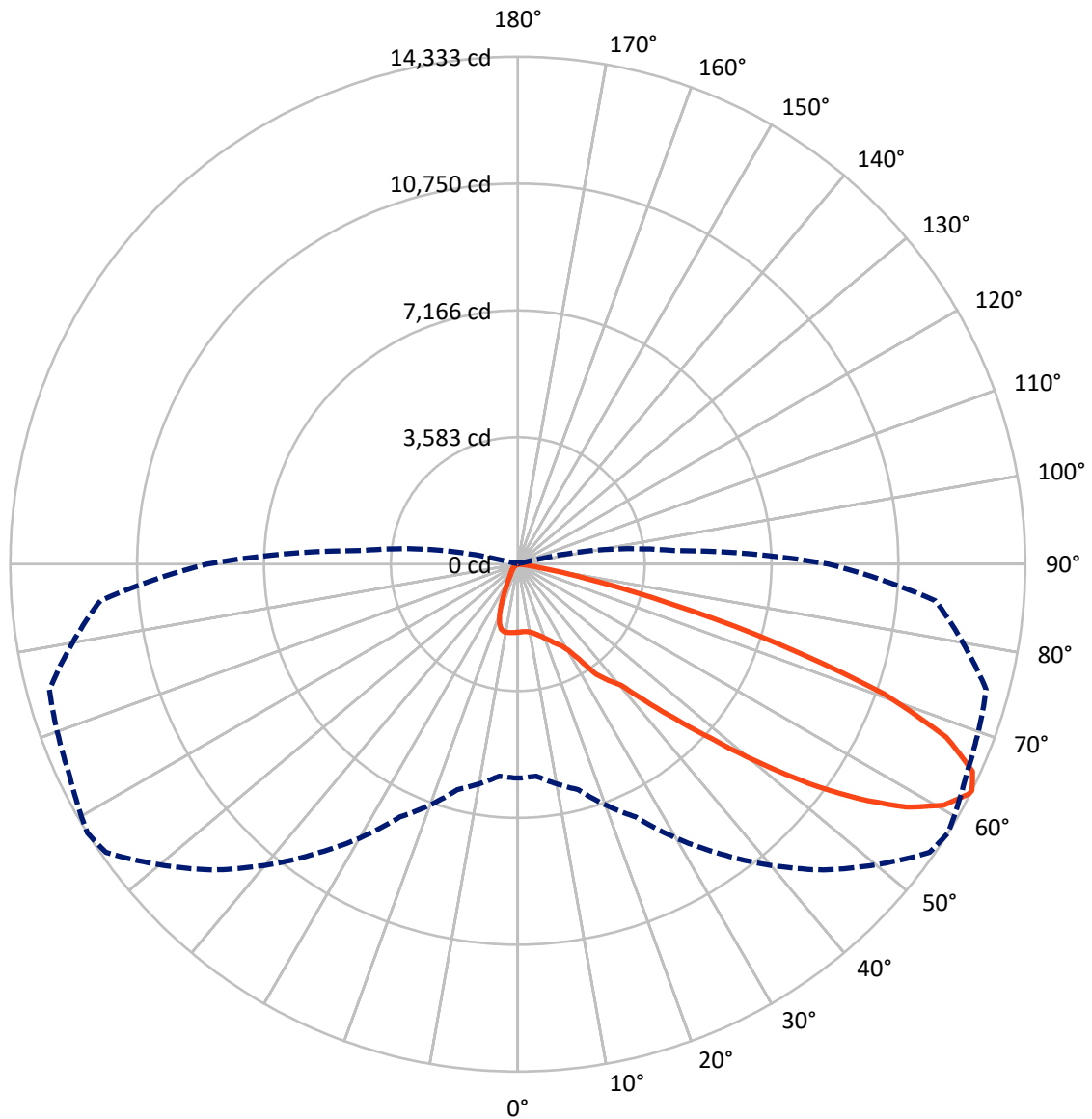
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.2 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	1780.0	0.0	1780.0
	% Fixture	10.4	0.0	10.4
<b>Street Side</b>	Lumens	15411.0	0.0	15411.0
	% Fixture	89.6	0.0	89.6
<b>Total</b>	Lumens	17191.0	0.0	17191.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	180.2	1.0
10°-20°	490.7	2.9
20°-30°	851.7	5.0
30°-40°	1565.0	9.1
40°-50°	2946.1	17.1
50°-60°	5039.1	29.3
60°-70°	4824.9	28.1
70°-80°	1230.4	7.2
80°-90°	62.9	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°	17191.0	100.0
0°-180°	17191.0	100.0

**Coefficient of Utilization**



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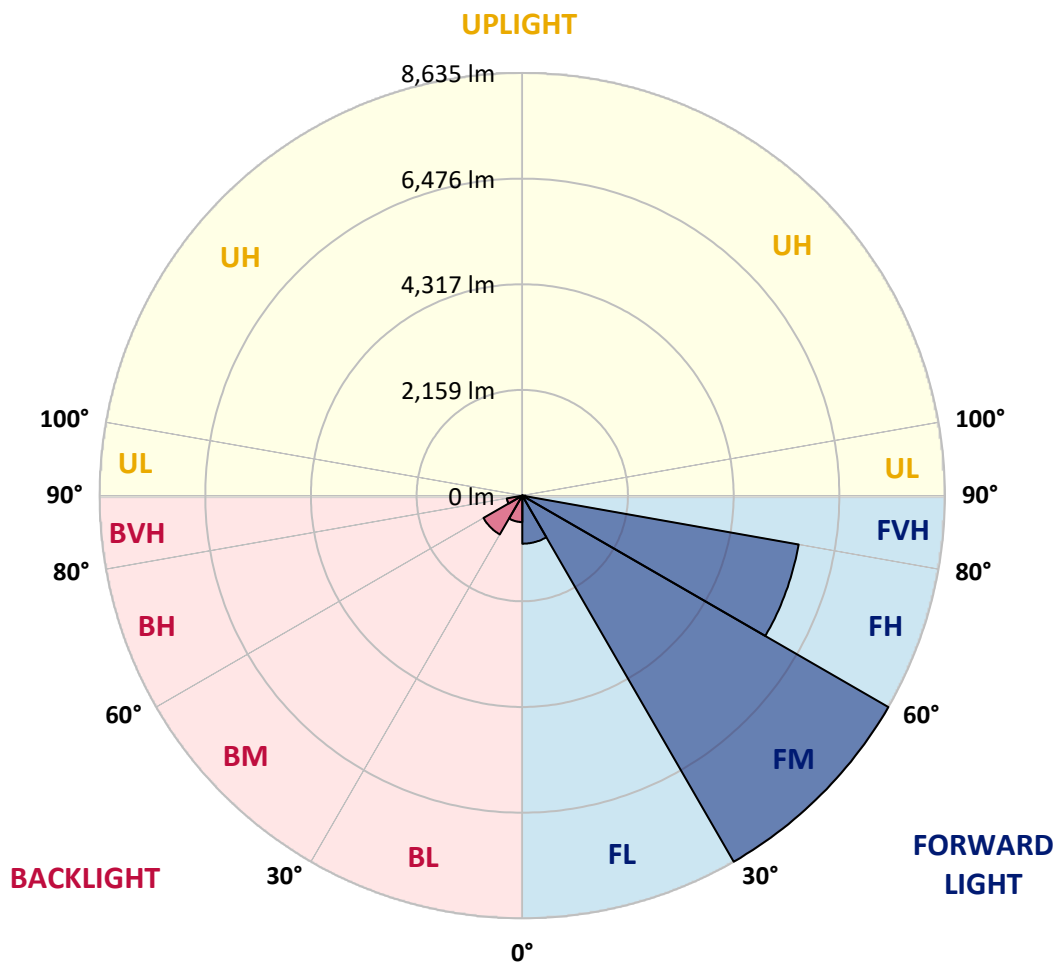
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	982.7	5.7			
FM	(30°-60°)	8634.7	50.2			
FH	(60°-80°)	5733.1	33.3			G3/7500
FVH	(80°-90°)	60.5	0.4			G1/100
BL	(0°-30°)	539.8	3.1	B2/1000		
BM	(30°-60°)	915.5	5.3	B1/1000		
BH	(60°-80°)	322.2	1.9	B1/500		G1/500
BVH	(80°-90°)	2.4	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°	1924.6	1924.6	1924.6	1924.6	1924.6	1924.6	1924.6	1924.6	1924.6	1924.6	1924.6
2.5°	1876.7	1883.2	1889.7	1892.2	1901.3	1910.4	1916.8	1915.5	1925.9	1931.1	1931.1
5°	1801.6	1801.6	1818.5	1834.0	1859.9	1885.8	1910.4	1915.5	1935.0	1953.1	1959.5
7.5°	1738.2	1742.1	1755.0	1783.5	1818.5	1863.8	1913.0	1924.6	1958.3	1998.4	2015.2
10°	1708.5	1711.0	1727.9	1757.6	1801.6	1863.8	1932.4	1954.4	2006.1	2069.6	2092.9
12.5°	1702.0	1705.9	1722.7	1756.3	1806.8	1881.9	1975.1	1998.4	2073.4	2155.0	2189.9
15°	1713.6	1716.2	1733.0	1769.3	1824.9	1914.2	2032.0	2064.4	2153.7	2248.2	2293.5
17.5°	1755.0	1752.5	1764.1	1793.9	1856.0	1954.4	2100.6	2139.4	2244.3	2373.7	2403.5
20°	1931.1	1914.2	1903.9	1878.0	1902.6	2011.3	2183.5	2240.4	2369.8	2501.8	2522.6
22.5°	2310.3	2272.8	2199.0	2098.0	2020.4	2089.0	2283.1	2349.1	2516.1	2645.5	2645.5
25°	2793.1	2745.2	2671.4	2451.4	2261.1	2217.1	2395.7	2478.6	2675.3	2806.0	2763.3
27.5°	3397.5	3360.0	3216.3	2960.0	2668.8	2441.0	2526.4	2602.8	2816.4	2974.3	2885.0
30°	3889.3	3871.2	3753.4	3524.3	3203.4	2870.7	2769.8	2820.2	3004.0	3186.5	3094.6
32.5°	4304.8	4304.8	4184.4	3970.9	3670.6	3375.5	3182.6	3218.9	3394.9	3605.9	3435.0
35°	4761.7	4746.1	4649.1	4445.9	4109.3	3849.2	3770.2	3819.4	3978.6	4135.2	3714.6
37.5°	5241.8	5236.7	5135.7	4939.0	4664.6	4337.1	4152.1	4165.0	4246.5	4342.3	4042.0
40°	5763.4	5771.2	5639.2	5517.5	5258.7	4923.5	4568.8	4487.3	4563.6	4834.1	4646.5
42.5°	6379.5	6361.4	6304.5	6138.8	5930.4	5729.8	5304.0	5274.2	5341.5	5631.4	5428.2
45°	7095.3	7121.1	7022.8	6930.9	6791.1	6624.1	6268.2	6216.4	6290.2	6740.6	6452.0
47.5°	7812.3	7787.7	7851.1	7834.3	7909.4	7785.1	7470.6	7364.5	7541.8	7968.9	7544.4
50°	8358.5	8385.7	8517.7	8710.5	9032.8	9102.7	8801.1	8764.9	8843.8	9118.2	8521.6
52.5°	8713.1	8803.7	9010.8	9506.5	10087.6	10539.3	10310.3	10290.8	10258.5	10332.3	9456.0
55°	8944.8	9036.7	9307.2	10037.2	11037.6	11771.5	11783.2	11700.3	11486.8	11433.7	10329.7
57.5°	8802.4	8820.5	9206.2	10182.1	11564.4	12650.3	13030.8	12948.0	12553.3	12352.6	11101.1
60°	7912.0	7949.5	8486.6	9633.3	11335.3	12937.7	13857.9	13820.4	13388.1	13161.6	11701.6
62.5°	6334.2	6442.9	6995.6	8274.4	10270.1	12453.6	14193.1	14299.2	13962.7	13650.8	11890.6
63°	6044.3	6009.4	6593.1	7878.3	9988.0	12214.1	14198.3	14332.9	13988.6	13697.4	11838.8
65°	4474.3	4579.2	4958.4	6212.6	8311.9	11099.8	13878.6	14116.7	13892.8	13491.6	11265.4
67.5°	2512.2	2507.0	2926.4	4065.3	5817.8	8706.6	12549.4	13052.8	13006.3	12106.7	9338.3
70°	1229.6	1249.0	1421.1	2107.1	3374.2	6006.8	10428.0	10971.6	10988.5	9509.1	6457.2
72.5°	556.5	565.6	688.6	1026.4	1734.3	3198.2	7185.9	7704.9	7609.1	6059.8	3565.7
75°	293.8	313.2	379.2	516.4	836.1	1318.9	3908.7	4410.9	4210.3	2768.5	1312.4
77.5°	217.4	223.9	257.6	328.7	447.8	513.8	1686.5	2006.1	1879.3	1001.8	434.9
80°	159.2	164.4	191.6	233.0	282.2	261.4	635.5	728.7	653.6	340.4	133.3
82.5°	97.1	98.4	139.8	173.4	177.3	146.3	209.7	225.2	235.6	191.6	72.5
85°	34.9	44.0	94.5	125.5	104.8	73.8	88.0	97.1	106.1	121.7	42.7
87.5°	3.9	5.2	45.3	60.8	29.8	27.2	32.4	36.2	38.8	45.3	20.7
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°	1924.6	1924.6	1924.6	1924.6	1924.6	1924.6	1924.6	1924.6	1924.6	1924.6	1924.6
2.5°	1936.2	1941.4	1937.5	1931.1	1929.8	1925.9	1918.1	1918.1	1918.1	1920.7	1918.1
5°	1964.7	1968.6	1959.5	1946.6	1932.4	1914.2	1894.8	1883.2	1881.9	1879.3	1872.8
7.5°	2019.1	2024.3	2003.6	1972.5	1933.7	1889.7	1848.2	1809.4	1791.3	1777.1	1777.1
10°	2098.0	2103.2	2061.8	2006.1	1928.5	1839.2	1740.8	1651.5	1581.6	1549.3	1541.5
12.5°	2192.5	2195.1	2126.5	2029.4	1901.3	1729.2	1519.5	1324.1	1188.2	1126.0	1119.6
15°	2296.1	2277.9	2187.3	2038.5	1823.6	1502.7	1140.3	900.8	759.7	718.3	733.9
17.5°	2400.9	2367.2	2233.9	2024.3	1648.9	1140.3	766.2	614.8	570.8	559.1	559.1
20°	2499.3	2452.7	2267.6	1962.1	1346.1	785.6	568.2	532.0	524.2	516.4	517.7
22.5°	2597.6	2526.4	2297.4	1823.6	1003.1	561.7	508.7	497.0	486.7	476.3	475.0
25°	2693.4	2595.0	2309.0	1567.4	683.4	482.8	464.6	449.1	428.4	416.8	414.2
27.5°	2793.1	2677.9	2301.2	1243.8	498.3	432.3	414.2	392.2	367.6	346.9	346.9
30°	2984.6	2835.8	2274.1	894.3	419.3	380.5	357.2	322.3	295.1	274.4	273.1
32.5°	3246.1	3041.6	2180.9	629.0	372.8	335.2	300.3	261.4	233.0	217.4	217.4
35°	3479.0	3248.7	2006.1	463.4	335.2	291.2	248.5	211.0	189.0	178.6	174.7
37.5°	3833.7	3551.5	1765.4	376.6	299.0	252.4	208.4	173.4	155.3	147.5	147.5
40°	4365.6	3921.7	1470.3	330.0	264.0	214.9	173.4	146.3	132.0	123.0	123.0
42.5°	5025.7	4374.7	1171.3	296.4	231.7	185.1	145.0	124.3	111.3	104.8	103.5
45°	5856.6	4852.3	902.1	265.3	205.8	157.9	123.0	104.8	91.9	88.0	89.3
47.5°	6723.8	5272.9	698.9	238.1	178.6	133.3	104.8	90.6	81.5	76.4	76.4
50°	7464.1	5562.8	530.7	207.1	157.9	112.6	91.9	81.5	73.8	71.2	69.9
52.5°	8082.8	5647.0	406.4	179.9	138.5	97.1	81.5	73.8	67.3	63.4	63.4
55°	8609.6	5573.2	318.4	151.4	116.5	84.1	72.5	66.0	58.2	54.4	53.1
57.5°	8917.6	5336.3	243.3	125.5	94.5	69.9	63.4	55.7	46.6	40.1	40.1
60°	9072.9	4992.0	186.4	103.5	72.5	55.7	51.8	41.4	32.4	27.2	25.9
62.5°	8886.5	4535.2	141.1	81.5	54.4	41.4	34.9	29.8	20.7	15.5	15.5
63°	8771.4	4403.2	135.9	77.7	50.5	38.8	32.4	27.2	18.1	14.2	12.9
65°	7996.1	3827.2	111.3	62.1	40.1	27.2	22.0	19.4	12.9	6.5	5.2
67.5°	6349.8	2927.7	88.0	46.6	28.5	19.4	12.9	11.6	3.9	0.0	0.0
70°	4293.1	1890.9	68.6	33.7	19.4	11.6	6.5	5.2	1.3	0.0	0.0
72.5°	2239.1	969.4	53.1	24.6	11.6	7.8	3.9	1.3	0.0	0.0	0.0
75°	792.1	330.0	38.8	15.5	7.8	3.9	1.3	0.0	0.0	0.0	0.0
77.5°	239.4	123.0	24.6	11.6	5.2	2.6	0.0	0.0	0.0	0.0	0.0
80°	84.1	45.3	14.2	7.8	3.9	1.3	0.0	0.0	0.0	0.0	0.0
82.5°	41.4	22.0	9.1	6.5	3.9	1.3	0.0	0.0	0.0	0.0	0.0
85°	23.3	14.2	7.8	6.5	3.9	2.6	0.0	0.0	0.0	0.0	0.0
87.5°	16.8	10.4	7.8	6.5	5.2	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)