

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: P455232

Luminaire Tested: **GALN-SA6B-827-U-T4FT-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P455232  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-29)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA6B-827-U-T4FT-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 17861 lumens  
Efficiency: N/A  
Efficacy: 73.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G4

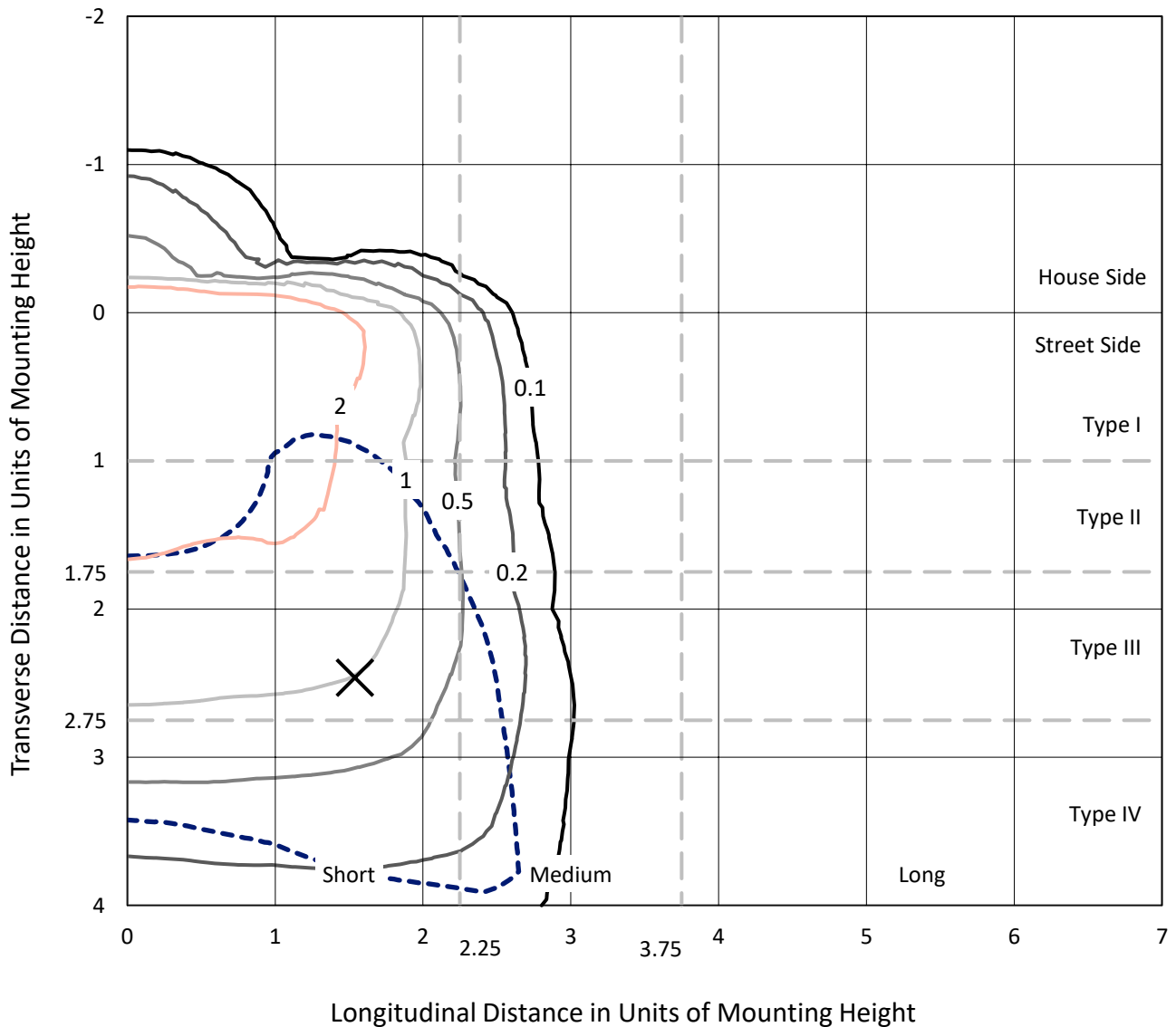
Input Watts (W): 243  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

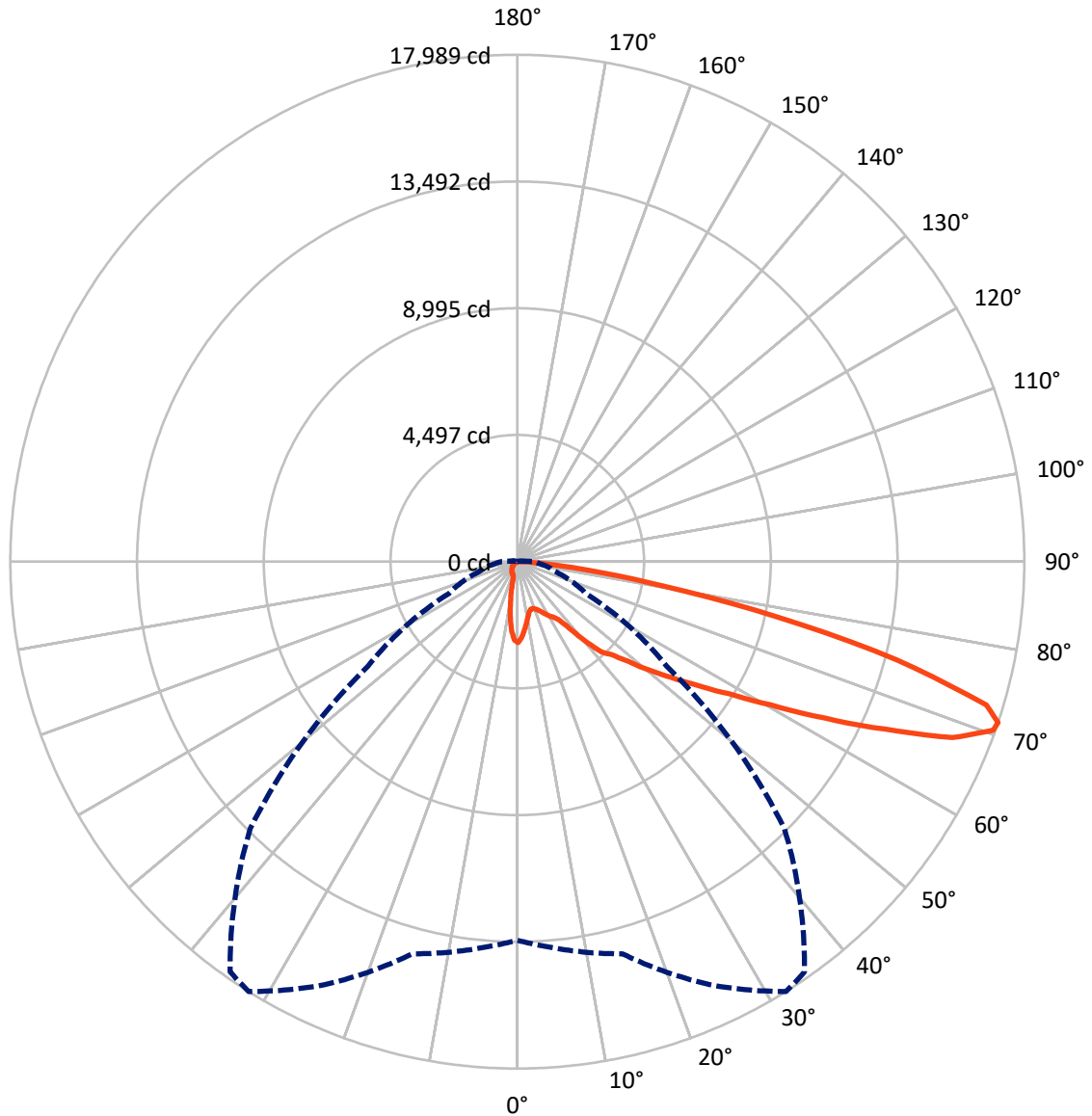
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 32-Deg Lateral    - - - Horizontal Cone Through 71-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1496.0	0.0	1496.0
	% Fixture	8.4	0.0	8.4
<b>Street Side</b>	Lumens	16364.9	0.0	16364.9
	% Fixture	91.6	0.0	91.6
<b>Total</b>	Lumens	17861.0	0.0	17861.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	233.6	1.3
10°-20°	506.9	2.8
20°-30°	788.6	4.4
30°-40°	1313.8	7.4
40°-50°	2443.8	13.7
50°-60°	3923.6	22.0
60°-70°	5277.5	29.5
70°-80°	3131.2	17.5
80°-90°	242.0	1.4
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°	17861.0	100.0
0°-180°	17861.0	100.0



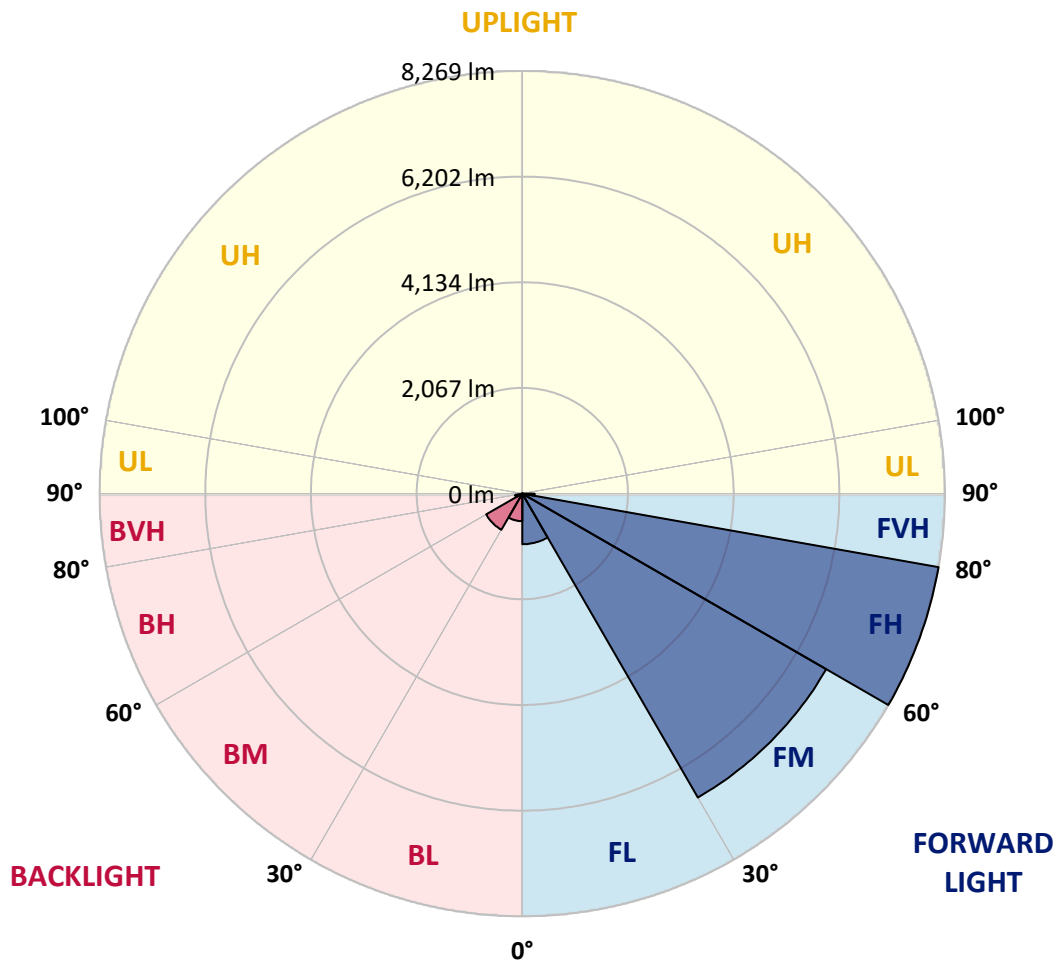
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	990.0	5.5			
FM (30°-60°)	6865.1	38.4			
FH (60°-80°)	8268.8	46.3			G4/12000
FVH (80°-90°)	241.1	1.3			G3/500
BL (0°-30°)	539.1	3.0	B2/1000		
BM (30°-60°)	816.1	4.6	B1/1000		
BH (60°-80°)	139.9	0.8	B1/500		G1/500
BVH (80°-90°)	0.9	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G4**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	32°	35°	45°	55°	65°	75°	85°
0°	2872.3	2872.3	2872.3	2872.3	2872.3	2872.3	2872.3	2872.3	2872.3	2872.3	2872.3
2.5°	2663.9	2691.4	2687.2	2696.8	2720.1	2729.7	2755.8	2784.6	2824.3	2851.8	2869.6
5°	2385.6	2406.2	2408.9	2456.9	2480.2	2506.3	2583.0	2666.7	2759.9	2833.9	2883.3
7.5°	2088.1	2099.1	2121.0	2184.1	2243.0	2269.1	2385.6	2530.9	2677.6	2816.1	2905.2
10°	1842.7	1855.0	1894.8	1962.0	2016.8	2051.1	2212.9	2395.2	2600.9	2806.5	2936.8
12.5°	1702.8	1709.7	1724.8	1785.1	1855.0	1892.0	2066.2	2274.6	2539.2	2810.6	2990.2
15°	1693.2	1690.5	1672.7	1697.3	1760.4	1798.8	1968.8	2192.3	2484.3	2824.3	3053.3
17.5°	1744.0	1737.1	1694.6	1694.6	1746.7	1778.2	1927.7	2148.4	2456.9	2855.9	3142.4
20°	1822.1	1811.1	1741.2	1735.7	1786.5	1819.4	1952.4	2151.2	2462.4	2914.8	3261.7
22.5°	1920.8	1908.5	1802.9	1805.7	1860.5	1893.4	2023.7	2200.5	2496.7	2987.5	3389.2
25°	2049.7	2036.0	1911.2	1905.7	1963.3	1992.1	2129.2	2288.3	2544.6	3078.0	3556.5
27.5°	2221.1	2192.3	2042.8	2034.6	2096.3	2133.3	2256.7	2406.2	2629.7	3202.7	3781.3
30°	2362.3	2330.8	2188.2	2166.2	2232.1	2260.8	2388.4	2565.2	2796.9	3420.7	4092.6
32.5°	2547.4	2500.8	2333.5	2275.9	2345.8	2382.9	2578.9	2861.4	3045.1	3651.1	4462.7
35°	2964.2	2935.4	2731.1	2529.6	2525.5	2572.1	2860.0	3160.2	3300.1	4010.3	4967.3
37.5°	3560.6	3540.0	3323.4	3053.3	2975.2	2953.2	3201.4	3489.3	3707.3	4503.9	5554.1
40°	4253.0	4205.0	4006.2	3777.2	3675.8	3611.3	3604.5	3978.8	4239.3	5174.3	6165.6
42.5°	4749.3	4661.5	4420.2	4403.8	4381.8	4314.7	4120.0	4694.4	4926.1	5895.5	6819.6
45°	5270.3	5137.3	4778.1	4716.4	4708.1	4704.0	4898.7	5541.7	5674.7	6677.0	7491.4
47.5°	5674.7	5569.2	5274.4	5247.0	5281.2	5374.5	5928.4	6441.1	6413.7	7373.5	8054.9
50°	6213.6	6134.0	5806.4	5858.5	6035.3	6187.5	7089.6	7421.4	7021.1	7921.9	8464.8
52.5°	6849.7	6703.0	6398.6	6539.9	6811.3	7065.0	8322.2	8279.7	7447.5	8334.5	8770.5
55°	7400.9	7296.7	7192.5	7339.2	7745.0	8061.7	9435.5	8922.7	7757.3	8666.3	8904.9
57.5°	8333.2	8308.5	8201.6	8351.0	8843.2	9172.3	10432.2	9421.8	7956.1	8839.1	8747.2
60°	9712.4	9672.7	9473.9	9664.5	10306.1	10823.0	11350.8	9870.1	8001.4	8771.9	8293.4
62.5°	11371.4	11235.7	11065.7	11346.7	12226.9	12454.5	12216.0	10136.1	7832.7	8237.2	7199.3
65°	12920.7	12780.8	12784.9	13377.2	14335.6	14490.5	13225.0	10096.3	7339.2	6897.7	5310.0
67.5°	14106.6	14083.3	14250.6	15406.4	16659.5	16552.6	14127.2	9501.3	5876.3	4471.0	2821.6
70°	14167.0	14212.2	14692.1	16643.0	17915.4	17745.4	14050.4	7723.1	3663.4	2056.6	1111.9
71°	13437.6	13741.9	14405.5	16604.7	17989.4	17768.7	13403.3	6468.6	2687.2	1434.1	802.1
72.5°	11450.9	11611.3	13045.4	15627.1	17404.0	16932.3	11762.1	4534.0	1720.7	877.5	460.7
75°	6306.8	6701.6	8736.3	12259.8	13920.2	13506.1	7665.5	2153.9	858.3	479.9	190.6
77.5°	3002.6	2925.8	4262.6	7291.2	9438.2	9416.3	3862.2	957.0	500.4	324.9	96.0
80°	858.3	965.2	1631.5	3466.0	5240.1	5297.7	1483.5	462.0	346.9	253.6	49.4
82.5°	259.1	264.6	599.1	1532.8	2606.3	2456.9	556.6	235.8	249.5	201.5	28.8
85°	45.2	56.2	176.9	540.2	994.0	754.1	139.8	112.4	164.5	133.0	16.5
87.5°	2.7	4.1	59.0	61.7	87.7	50.7	24.7	16.5	35.6	35.6	9.6
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°	2872.3	2872.3	2872.3	2872.3	2872.3	2872.3	2872.3	2872.3	2872.3	2872.3	2872.3
2.5°	2881.9	2890.2	2884.7	2872.3	2851.8	2827.1	2794.2	2766.8	2743.5	2731.1	2746.2
5°	2899.7	2910.7	2883.3	2821.6	2728.4	2626.9	2511.7	2422.6	2352.7	2330.8	2322.5
7.5°	2927.2	2934.0	2860.0	2722.9	2525.5	2285.5	2075.8	1898.9	1761.8	1720.7	1660.3
10°	2962.8	2958.7	2818.9	2563.8	2217.0	1856.4	1531.5	1290.1	1107.8	1042.0	1036.5
12.5°	3017.7	2995.7	2766.8	2347.2	1849.5	1377.9	976.2	763.7	648.5	610.1	601.9
15°	3086.2	3034.1	2684.5	2093.6	1416.3	889.8	601.9	537.4	522.4	519.6	516.9
17.5°	3167.1	3084.8	2576.2	1782.4	995.4	577.2	503.2	501.8	503.2	500.4	499.1
20°	3276.8	3138.3	2447.3	1413.5	658.1	486.7	479.9	479.9	481.2	479.9	479.9
22.5°	3393.3	3201.4	2288.3	1079.0	496.3	462.0	460.7	463.4	466.2	464.8	464.8
25°	3537.3	3283.6	2078.5	739.0	444.2	441.5	442.8	448.3	453.8	455.2	453.8
27.5°	3745.7	3385.1	1853.6	508.7	407.2	409.9	423.7	437.4	445.6	447.0	447.0
30°	3980.1	3497.5	1560.2	412.7	377.0	377.0	393.5	419.5	437.4	440.1	441.5
32.5°	4281.8	3627.8	1235.3	371.6	348.2	345.5	360.6	392.1	425.0	434.6	434.6
35°	4654.7	3781.3	918.6	345.5	327.7	320.8	329.0	355.1	397.6	425.0	427.8
37.5°	5092.0	3926.7	671.8	322.2	308.5	298.9	304.4	324.9	359.2	400.3	411.3
40°	5496.5	4055.5	501.8	303.0	289.3	282.4	286.5	296.1	324.9	363.3	370.2
42.5°	5938.0	4155.6	399.0	282.4	270.1	267.4	267.4	271.5	290.7	312.6	314.0
45°	6378.1	4191.3	334.5	257.8	249.5	252.3	250.9	248.2	256.4	253.6	253.6
47.5°	6692.0	4148.8	276.9	234.4	234.4	238.6	231.7	222.1	218.0	201.5	202.9
50°	6907.3	3993.8	227.6	207.0	218.0	223.5	209.8	194.7	179.6	161.8	157.7
52.5°	6996.4	3718.3	186.5	171.4	193.3	200.2	183.7	165.9	142.6	127.5	123.4
55°	6938.8	3378.2	154.9	139.8	163.2	171.4	154.9	134.4	108.3	91.9	89.1
57.5°	6685.2	2972.4	131.6	111.1	130.2	135.7	124.8	102.8	76.8	60.3	60.3
60°	6246.5	2552.9	106.9	87.7	97.3	105.6	94.6	74.0	52.1	37.0	34.3
62.5°	5356.7	2073.0	86.4	68.6	68.6	75.4	65.8	53.5	32.9	19.2	17.8
65°	3867.7	1421.8	68.6	50.7	49.4	49.4	41.1	35.6	19.2	8.2	5.5
67.5°	2101.8	802.1	54.8	38.4	34.3	32.9	26.0	20.6	8.2	1.4	0.0
70°	826.7	308.5	42.5	26.0	21.9	20.6	13.7	9.6	5.5	0.0	0.0
71°	560.8	212.5	37.0	21.9	17.8	15.1	11.0	8.2	4.1	0.0	0.0
72.5°	320.8	131.6	28.8	16.5	13.7	11.0	8.2	5.5	4.1	0.0	0.0
75°	139.8	67.2	17.8	12.3	9.6	6.9	5.5	4.1	1.4	0.0	0.0
77.5°	71.3	37.0	12.3	9.6	5.5	4.1	2.7	1.4	0.0	0.0	0.0
80°	39.8	19.2	8.2	5.5	4.1	2.7	1.4	1.4	0.0	0.0	0.0
82.5°	21.9	11.0	4.1	2.7	1.4	0.0	0.0	0.0	0.0	0.0	0.0
85°	13.7	6.9	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	6.9	2.7	0.0	0.0	0.0	0.0	1.4	1.4	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)