

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: P455234

Luminaire Tested: **GALN-SA6B-827-U-T4W-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455234
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-SA6B-827-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 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: 17944 lumens
Efficiency: N/A
Efficacy: 73.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G3

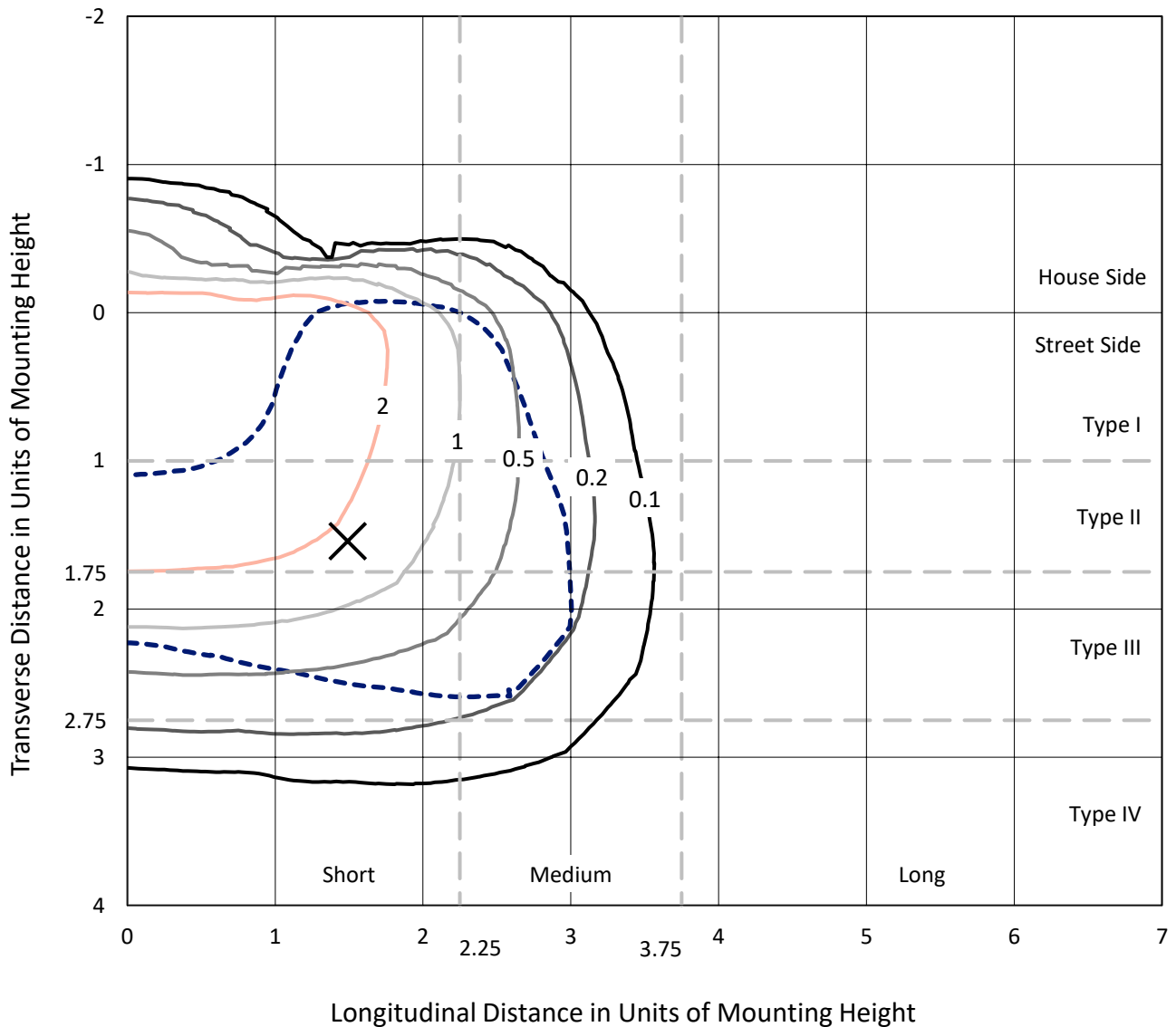
Input Watts (W): 243
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

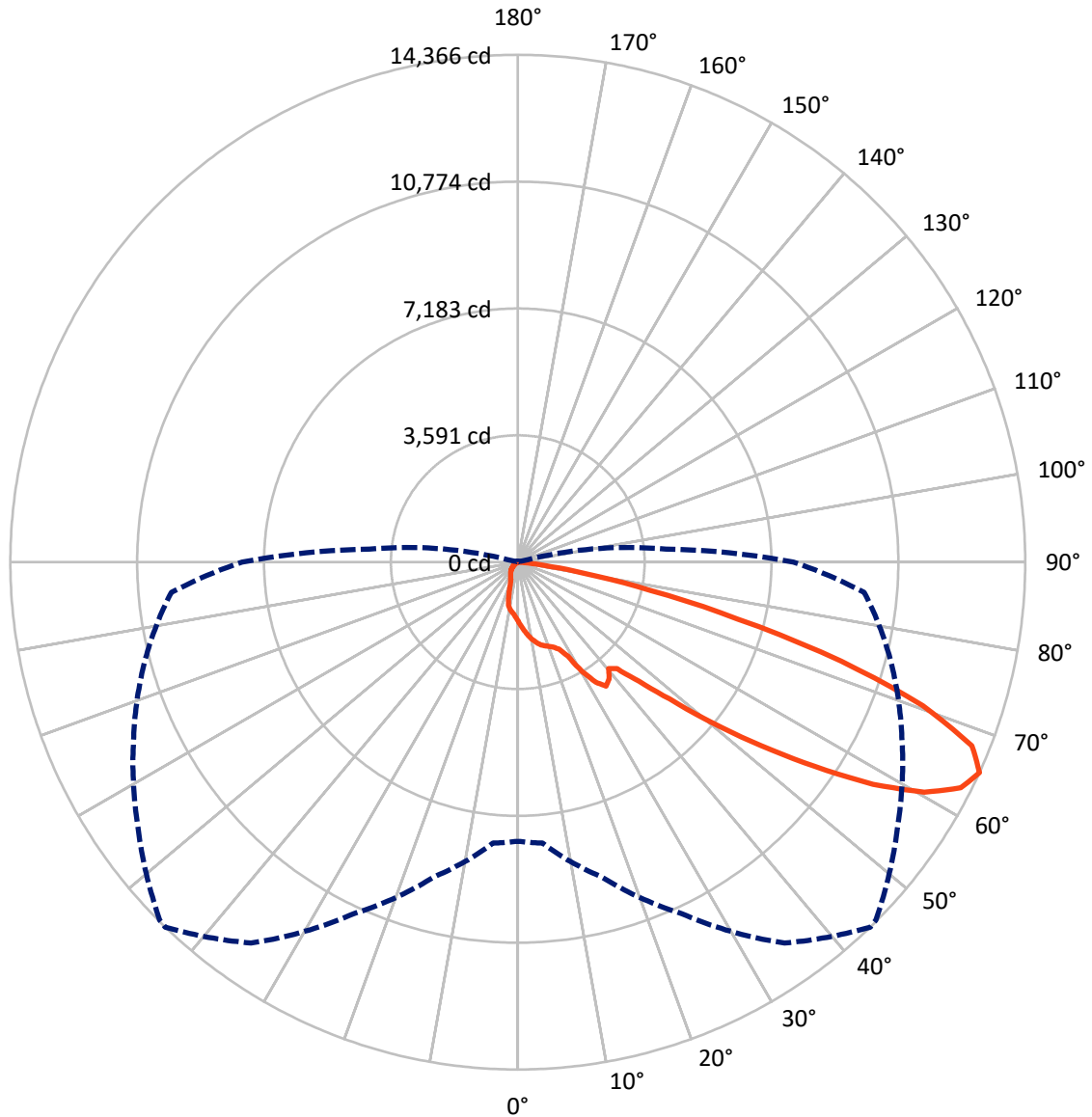
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.9 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
House Side	Lumens	1653.3	0.0	1653.3
	% Fixture	9.2	0.0	9.2
Street Side	Lumens	16290.7	0.0	16290.7
	% Fixture	90.8	0.0	90.8
Total	Lumens	17944.0	0.0	17944.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	166.1	0.9
10°-20°	499.9	2.8
20°-30°	847.7	4.7
30°-40°	1409.4	7.9
40°-50°	2460.9	13.7
50°-60°	4807.7	26.8
60°-70°	5578.0	31.1
70°-80°	2031.2	11.3
80°-90°	143.1	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°	17944.0	100.0
0°-180°	17944.0	100.0

Coefficient of Utilization



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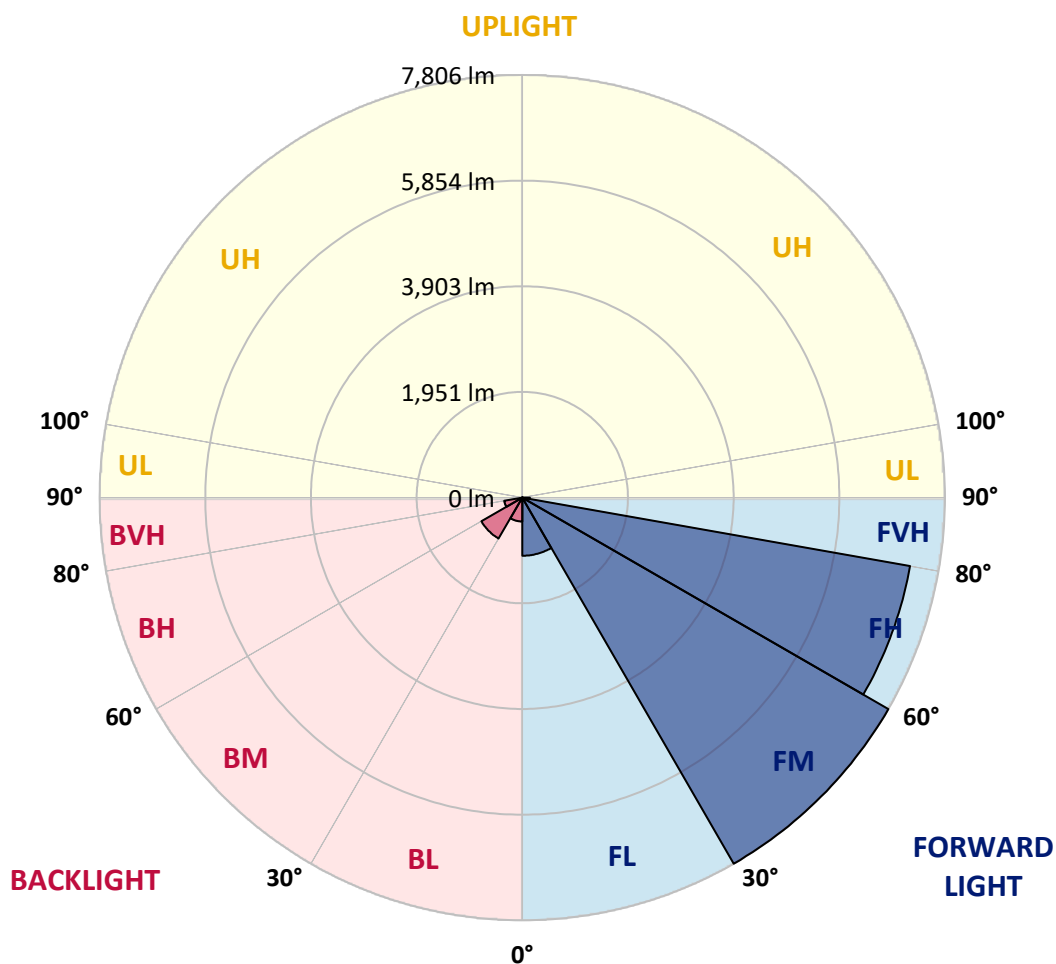
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1073.2	6.0			
FM (30°-60°)	7805.7	43.5			
FH (60°-80°)	7270.7	40.5			G3/7500
FVH (80°-90°)	141.2	0.8			G2/225
BL (0°-30°)	440.5	2.5	B1/500		
BM (30°-60°)	872.3	4.9	B1/1000		
BH (60°-80°)	338.6	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°	1670.1	1670.1	1670.1	1670.1	1670.1	1670.1	1670.1	1670.1	1670.1	1670.1	1670.1
2.5°	1879.8	1871.6	1867.5	1845.6	1829.1	1808.5	1808.5	1782.5	1752.3	1719.4	1689.2
5°	2089.6	2075.9	2058.1	2038.9	2000.5	1945.7	1945.7	1890.8	1827.7	1771.5	1709.8
7.5°	2291.2	2278.8	2248.7	2211.7	2148.6	2091.0	2086.9	2007.4	1931.9	1846.9	1759.2
10°	2468.1	2458.5	2432.4	2361.1	2295.3	2219.9	2218.5	2129.4	2041.6	1937.4	1829.1
12.5°	2591.5	2592.8	2558.6	2490.0	2405.0	2333.7	2328.2	2240.4	2148.6	2036.1	1903.1
15°	2679.2	2679.2	2643.6	2566.8	2490.0	2426.9	2421.4	2344.7	2250.0	2128.0	1984.0
17.5°	2703.9	2712.1	2673.7	2605.2	2543.5	2488.6	2487.3	2422.8	2347.4	2229.5	2066.3
20°	2694.3	2702.5	2672.4	2618.9	2576.4	2544.8	2540.7	2514.7	2444.7	2333.7	2154.1
22.5°	2673.7	2682.0	2660.0	2628.5	2607.9	2617.5	2610.7	2632.6	2595.6	2461.2	2258.3
25°	2677.8	2686.1	2669.6	2651.8	2669.6	2728.6	2746.4	2841.0	2808.1	2623.0	2370.7
27.5°	2806.7	2823.2	2799.9	2808.1	2871.2	3008.3	3042.6	3205.7	3060.4	2828.7	2546.2
30°	3093.3	3082.3	3038.5	3078.2	3297.6	3588.3	3578.7	3552.6	3325.0	3065.9	2754.6
32.5°	3353.8	3344.2	3341.5	3512.9	3910.5	4051.7	4044.9	3792.6	3562.2	3337.4	2960.3
35°	3459.4	3422.4	3414.1	3829.6	4494.6	4308.1	4265.6	3891.3	3850.2	3633.5	3170.1
37.5°	3777.5	3751.4	3623.9	3881.7	4261.5	4199.8	4166.9	4061.3	4157.3	3895.4	3407.3
40°	4432.9	4360.2	4245.1	3992.8	3931.1	3957.1	3990.0	4279.3	4520.7	4253.3	3724.0
42.5°	5247.4	5230.9	5017.0	4546.7	4084.6	4120.3	4162.8	4734.6	5043.1	4792.1	4240.9
45°	6225.0	6248.3	5939.8	5384.5	4778.4	4808.6	4870.3	5406.4	5750.6	5629.9	5054.0
47.5°	7113.5	7095.7	6991.5	6414.2	5854.8	5787.6	5887.7	6268.9	6729.6	6748.8	6063.2
50°	8007.5	8102.1	7947.1	7720.9	7305.4	7164.2	7127.2	7313.7	8015.7	7923.8	7275.3
52.5°	9292.2	9341.6	9050.9	8993.3	9087.9	8630.0	8592.9	8638.2	9266.2	8950.8	8183.0
55°	10099.8	10071.0	9962.7	10412.5	10786.8	10215.0	10168.4	9986.0	10304.1	9676.2	9056.4
57.5°	10354.9	10396.0	10648.3	11461.4	12347.1	11861.8	11776.7	11258.4	11052.8	10352.1	9859.9
60°	10241.1	10316.5	10860.8	12070.2	13298.7	13226.0	13153.4	12282.7	11590.3	10917.0	10423.4
62.5°	9430.7	9536.3	10407.0	11961.8	13620.9	14074.8	13984.3	12921.6	11948.1	11191.3	10522.1
65°	7903.3	7981.4	9231.9	10978.7	13163.0	14365.5	14332.5	13121.8	12004.4	10940.3	9846.2
67.5°	5634.0	5900.0	7058.6	9252.5	11808.3	13869.1	13925.3	12881.9	11476.5	9855.8	8154.2
70°	3541.7	3722.7	4553.6	6624.0	9466.4	12167.5	12352.6	11783.6	9960.0	7682.5	5458.5
72.5°	1689.2	1823.6	2416.0	4193.0	6681.6	9573.3	9720.0	9673.4	7701.7	4840.1	2816.3
75°	752.8	803.5	1153.1	2140.4	4313.6	6434.8	6814.6	6877.6	4812.7	2368.0	1095.5
77.5°	383.9	385.3	540.2	1036.6	2154.1	3839.2	3914.6	4135.4	2609.3	1043.4	381.2
80°	204.3	218.0	286.6	489.5	1117.5	1890.8	1881.2	2067.7	1157.2	511.4	127.5
82.5°	91.9	101.5	161.8	256.4	545.7	717.1	773.3	846.0	496.4	326.3	56.2
85°	27.4	32.9	79.5	128.9	197.4	207.0	231.7	298.9	281.1	231.7	28.8
87.5°	4.1	4.1	32.9	35.6	28.8	37.0	38.4	42.5	90.5	85.0	15.1
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°	1670.1	1670.1	1670.1	1670.1	1670.1	1670.1	1670.1	1670.1	1670.1	1670.1	1670.1
2.5°	1672.8	1663.2	1628.9	1600.1	1575.4	1560.4	1542.5	1531.6	1526.1	1522.0	1523.3
5°	1679.6	1656.3	1597.4	1550.8	1515.1	1476.7	1450.7	1435.6	1428.7	1417.8	1417.8
7.5°	1718.0	1681.0	1598.8	1527.5	1465.8	1413.6	1364.3	1346.5	1334.1	1331.4	1328.6
10°	1772.9	1726.3	1613.8	1515.1	1427.4	1356.1	1286.1	1224.4	1176.4	1147.6	1143.5
12.5°	1841.4	1774.3	1637.1	1506.9	1394.5	1268.3	1083.2	958.4	874.8	848.7	852.9
15°	1904.5	1831.8	1660.5	1500.0	1334.1	1051.7	841.9	699.3	656.8	652.7	654.0
17.5°	1979.9	1893.5	1687.9	1490.4	1168.2	803.5	625.2	586.8	595.1	608.8	607.4
20°	2058.1	1959.4	1720.8	1432.8	932.4	604.7	552.6	556.7	569.0	581.4	584.1
22.5°	2141.7	2034.8	1759.2	1294.4	711.6	526.5	523.8	529.3	541.6	555.3	558.1
25°	2256.9	2129.4	1788.0	1113.4	538.9	486.8	492.2	501.8	512.8	527.9	530.6
27.5°	2405.0	2256.9	1803.1	877.5	466.2	451.1	452.5	466.2	479.9	493.6	493.6
30°	2596.9	2409.1	1772.9	663.6	430.5	416.8	411.3	419.6	437.4	451.1	452.5
32.5°	2768.3	2553.1	1693.4	507.3	404.5	385.3	371.6	373.0	379.8	388.0	389.4
35°	2939.7	2692.9	1557.6	426.4	377.1	355.1	334.6	323.6	318.1	314.0	318.1
37.5°	3159.1	2867.1	1376.6	388.0	353.8	326.3	297.5	274.2	255.0	242.7	245.4
40°	3441.6	3108.4	1162.7	363.4	331.8	298.9	260.5	230.4	197.4	186.5	181.0
42.5°	3907.8	3474.5	937.9	342.8	309.9	270.1	222.1	181.0	150.8	139.9	142.6
45°	4644.1	3936.5	722.6	320.8	287.9	238.6	186.5	142.6	117.9	112.4	115.2
47.5°	5620.3	4534.4	556.7	296.2	260.5	204.3	146.7	112.4	97.4	96.0	94.6
50°	6539.0	5091.1	464.8	268.7	227.6	170.0	120.7	94.6	85.0	83.6	83.6
52.5°	7369.9	5490.1	378.4	237.2	192.0	139.9	101.5	83.6	75.4	71.3	71.3
55°	8108.9	5750.6	307.1	198.8	150.8	111.1	87.8	75.4	65.8	60.3	59.0
57.5°	8667.0	5782.1	230.4	159.1	112.4	86.4	75.4	65.8	54.8	48.0	45.2
60°	8905.6	5509.2	170.0	120.7	83.6	68.6	60.3	53.5	41.1	34.3	32.9
62.5°	8665.6	4978.6	126.1	91.9	64.4	50.7	42.5	39.8	28.8	20.6	19.2
65°	7805.9	4212.1	100.1	69.9	48.0	37.0	27.4	26.1	17.8	9.6	8.2
67.5°	6253.8	3299.0	79.5	52.1	34.3	24.7	17.8	16.5	9.6	2.7	2.7
70°	4066.8	2108.8	64.4	38.4	21.9	16.5	11.0	8.2	5.5	1.4	0.0
72.5°	2011.5	985.9	52.1	30.2	15.1	8.2	4.1	2.7	4.1	0.0	0.0
75°	780.2	351.0	38.4	20.6	8.2	4.1	2.7	0.0	1.4	0.0	0.0
77.5°	259.1	116.5	23.3	11.0	5.5	2.7	0.0	0.0	0.0	0.0	0.0
80°	96.0	45.2	12.3	6.9	2.7	1.4	0.0	0.0	0.0	0.0	0.0
82.5°	38.4	17.8	8.2	5.5	2.7	0.0	0.0	0.0	0.0	0.0	0.0
85°	19.2	11.0	5.5	4.1	2.7	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	13.7	8.2	5.5	4.1	2.7	1.4	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)