

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: P454277

Luminaire Tested: **GALN-SA5B-760-U-T4W-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P454277  
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-760-U-T4W-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 5700K, 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: 20614 lumens  
Efficiency: N/A  
Efficacy: 101.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G4

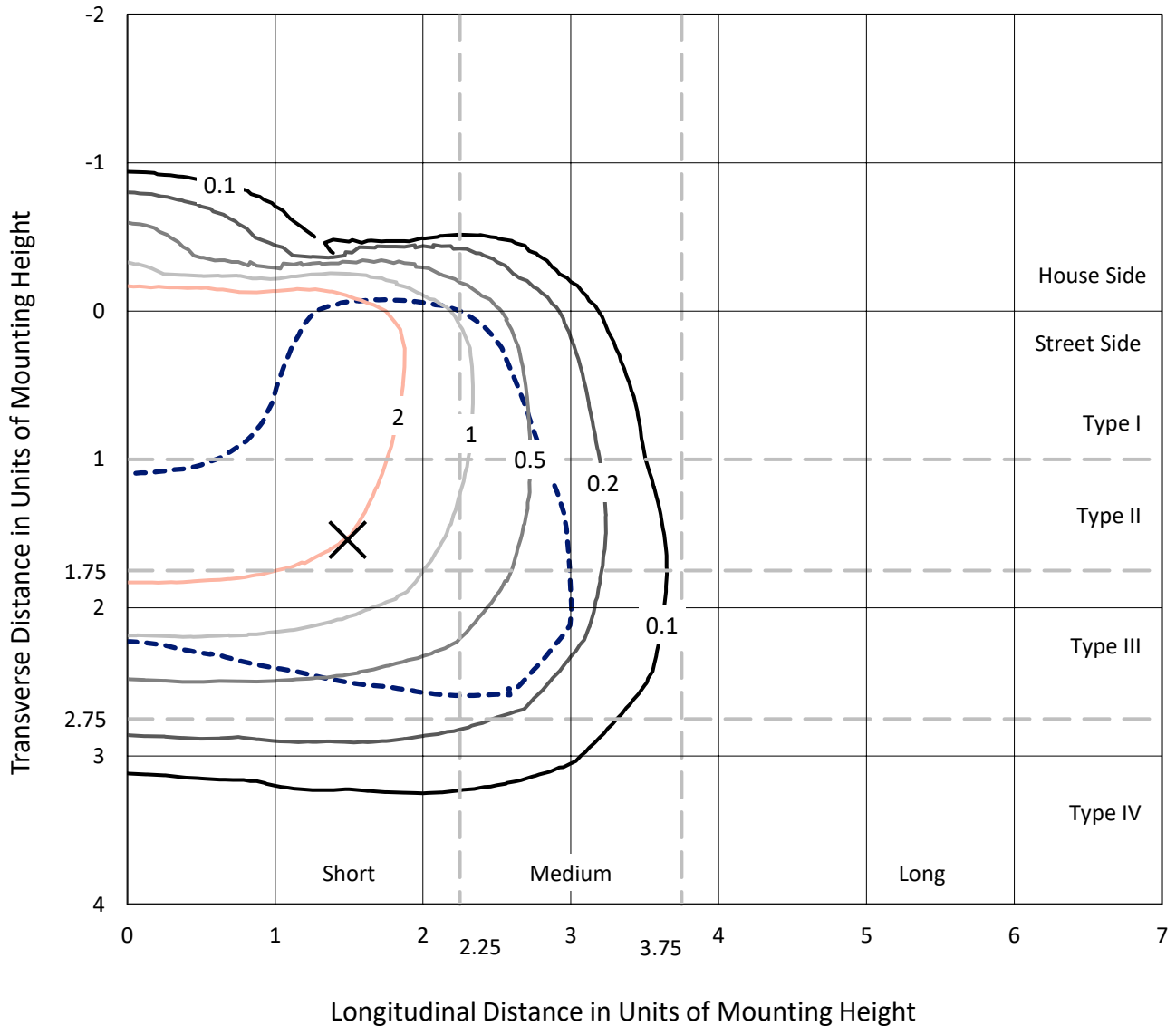
Input Watts (W): 204  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

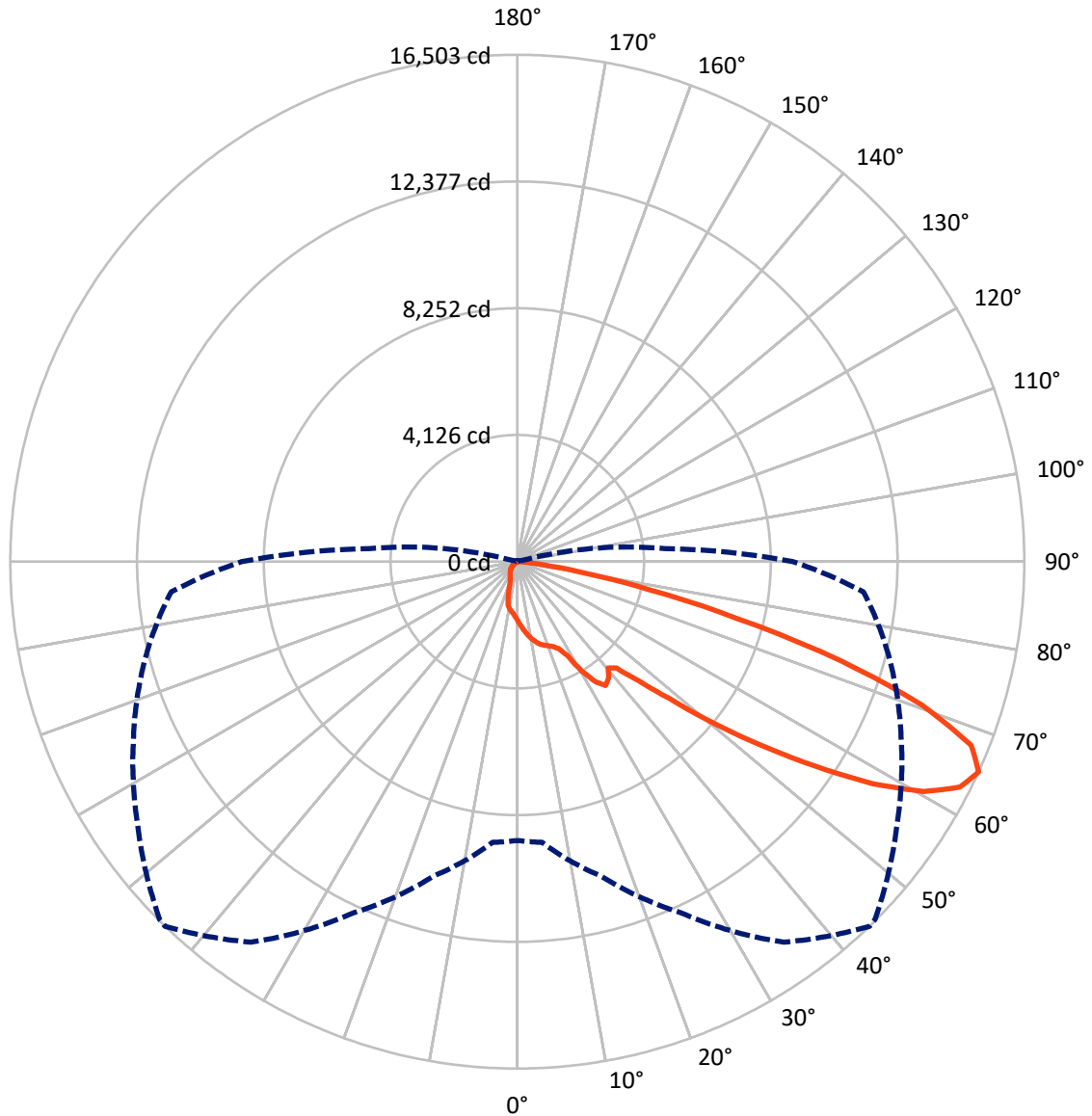
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.4 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	1899.3	0.0	1899.3
	% Fixture	9.2	0.0	9.2
<b>Street Side</b>	Lumens	18714.7	0.0	18714.7
	% Fixture	90.8	0.0	90.8
<b>Total</b>	Lumens	20614.0	0.0	20614.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	190.8	0.9
10°-20°	574.3	2.8
20°-30°	973.8	4.7
30°-40°	1619.1	7.9
40°-50°	2827.0	13.7
50°-60°	5523.0	26.8
60°-70°	6408.0	31.1
70°-80°	2333.5	11.3
80°-90°	164.4	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°	20614.0	100.0
0°-180°	20614.0	100.0



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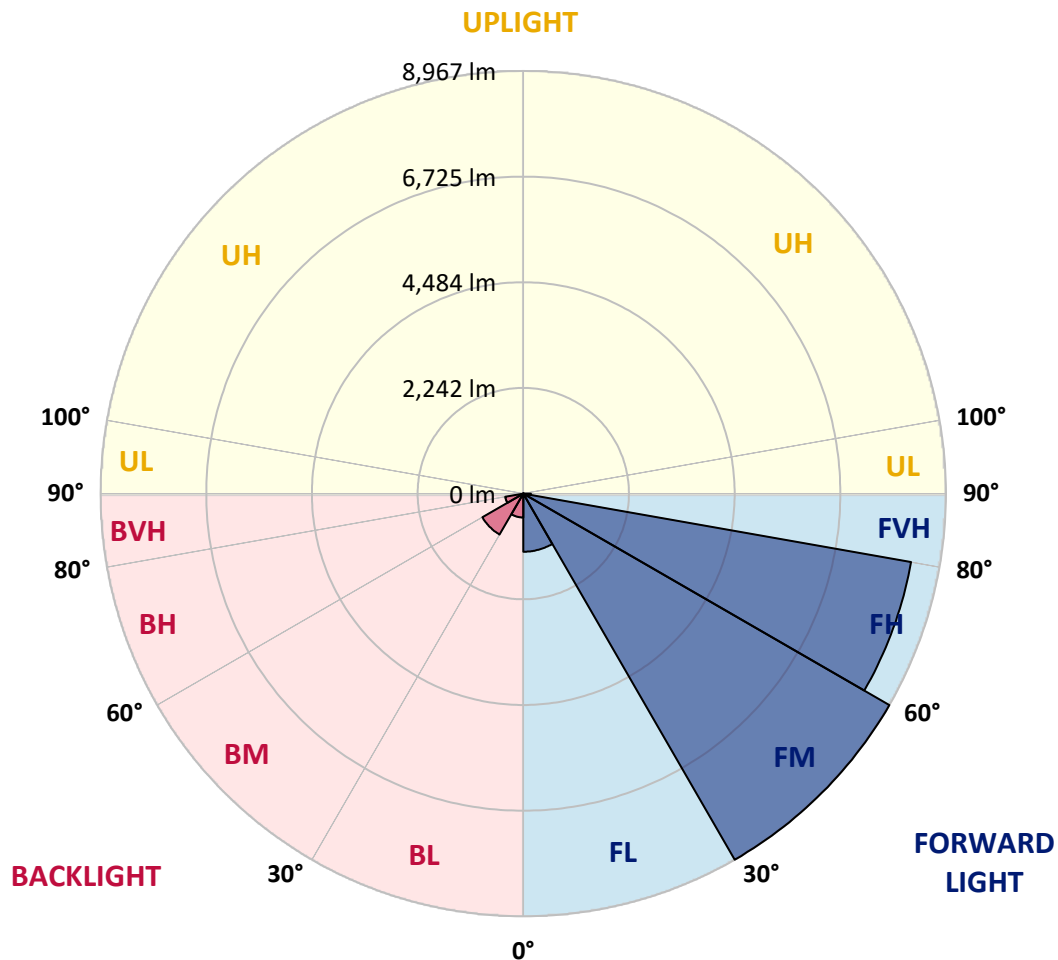
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1232.9	6.0			
FM (30°-60°)	8967.1	43.5			
FH (60°-80°)	8352.5	40.5			G4/12000
FVH (80°-90°)	162.2	0.8			G2/225
BL (0°-30°)	506.0	2.5	B2/1000		
BM (30°-60°)	1002.1	4.9	B2/2500		
BH (60°-80°)	388.9	1.9	B1/500		G1/500
BVH (80°-90°)	2.2	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 III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	1918.5	1918.5	1918.5	1918.5	1918.5	1918.5	1918.5	1918.5	1918.5	1918.5	1918.5
2.5°	2159.5	2150.1	2145.4	2120.2	2101.3	2077.6	2077.6	2047.7	2013.1	1975.3	1940.6
5°	2400.5	2384.8	2364.3	2342.3	2298.2	2235.2	2235.2	2172.1	2099.7	2035.1	1964.2
7.5°	2632.1	2617.9	2583.3	2540.7	2468.3	2402.1	2397.4	2306.0	2219.4	2121.7	2020.9
10°	2835.3	2824.3	2794.3	2712.4	2636.8	2550.2	2548.6	2446.2	2345.4	2225.7	2101.3
12.5°	2977.1	2978.6	2939.3	2860.5	2762.8	2680.9	2674.6	2573.8	2468.3	2339.1	2186.3
15°	3077.9	3077.9	3036.9	2948.7	2860.5	2788.0	2781.7	2693.5	2584.8	2444.7	2279.3
17.5°	3106.2	3115.7	3071.6	2992.8	2921.9	2858.9	2857.3	2783.3	2696.7	2561.2	2373.8
20°	3095.2	3104.6	3070.0	3008.6	2959.7	2923.5	2918.8	2888.8	2808.5	2680.9	2474.6
22.5°	3071.6	3081.0	3055.8	3019.6	2996.0	3007.0	2999.1	3024.3	2981.8	2827.4	2594.3
25°	3076.3	3085.7	3066.8	3046.4	3066.8	3134.6	3155.1	3263.7	3225.9	3013.3	2723.5
27.5°	3224.4	3243.3	3216.5	3225.9	3298.4	3455.9	3495.3	3682.7	3515.8	3249.6	2925.1
30°	3553.6	3541.0	3490.6	3536.2	3788.3	4122.2	4111.2	4081.2	3819.8	3522.1	3164.5
32.5°	3852.8	3841.8	3838.7	4035.6	4492.4	4654.6	4646.7	4356.9	4092.3	3833.9	3400.8
35°	3974.1	3931.6	3922.2	4399.4	5163.4	4949.2	4900.3	4470.3	4423.1	4174.2	3641.8
37.5°	4339.6	4309.6	4163.2	4459.3	4895.6	4824.7	4786.9	4665.6	4775.9	4475.0	3914.3
40°	5092.5	5009.0	4876.7	4586.9	4516.0	4545.9	4583.7	4916.1	5193.3	4886.2	4278.1
42.5°	6028.1	6009.2	5763.5	5223.2	4692.4	4733.4	4782.2	5439.0	5793.4	5505.2	4872.0
45°	7151.2	7178.0	6823.6	6185.7	5489.4	5524.1	5595.0	6210.9	6606.2	6467.6	5806.1
47.5°	8171.9	8151.5	8031.8	7368.6	6725.9	6648.8	6763.8	7201.6	7730.9	7753.0	6965.4
50°	9199.0	9307.6	9129.6	8869.7	8392.5	8230.2	8187.7	8401.9	9208.4	9102.9	8357.8
52.5°	10674.9	10731.6	10397.7	10331.5	10440.2	9914.1	9871.5	9923.5	10645.0	10282.7	9400.6
55°	11602.7	11569.6	11445.1	11961.8	12391.8	11735.0	11681.4	11471.9	11837.4	11115.9	10404.0
57.5°	11895.6	11942.9	12232.7	13166.8	14184.3	13626.7	13529.1	12933.7	12697.4	11892.5	11327.0
60°	11764.9	11851.5	12476.9	13866.2	15277.5	15194.0	15110.5	14110.3	13314.9	12541.4	11974.4
62.5°	10834.0	10955.3	11955.5	13741.7	15647.7	16169.0	16065.1	14844.3	13726.0	12856.5	12087.8
65°	9079.2	9169.0	10605.6	12612.3	15121.6	16503.0	16465.2	15074.3	13790.6	12568.2	11311.2
67.5°	6472.3	6777.9	8108.9	10629.2	13565.3	15932.8	15997.4	14798.7	13184.1	11322.3	9367.5
70°	4068.6	4276.6	5231.1	7609.6	10874.9	13978.0	14190.6	13537.0	11442.0	8825.6	6270.7
72.5°	1940.6	2095.0	2775.4	4816.8	7675.8	10997.8	11166.3	11112.8	8847.7	5560.3	3235.4
75°	864.8	923.0	1324.7	2458.8	4955.5	7392.2	7828.6	7901.0	5528.8	2720.3	1258.6
77.5°	441.0	442.6	620.6	1190.8	2474.6	4410.5	4497.1	4750.7	2997.5	1198.7	437.9
80°	234.7	250.5	329.2	562.3	1283.8	2172.1	2161.1	2375.3	1329.4	587.5	146.5
82.5°	105.5	116.6	185.9	294.6	626.9	823.8	888.4	971.9	570.2	374.9	64.6
85°	31.5	37.8	91.4	148.1	226.8	237.8	266.2	343.4	322.9	266.2	33.1
87.5°	4.7	4.7	37.8	41.0	33.1	42.5	44.1	48.8	104.0	97.7	17.3
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°	1918.5	1918.5	1918.5	1918.5	1918.5	1918.5	1918.5	1918.5	1918.5	1918.5	1918.5
2.5°	1921.7	1910.7	1871.3	1838.2	1809.9	1792.5	1772.1	1759.5	1753.2	1748.4	1750.0
5°	1929.6	1902.8	1835.1	1781.5	1740.6	1696.5	1666.5	1649.2	1641.3	1628.7	1628.7
7.5°	1973.7	1931.1	1836.6	1754.7	1683.8	1624.0	1567.3	1546.8	1532.6	1529.5	1526.3
10°	2036.7	1983.1	1854.0	1740.6	1639.7	1557.8	1477.5	1406.6	1351.5	1318.4	1313.7
12.5°	2115.4	2038.3	1880.7	1731.1	1601.9	1457.0	1244.4	1101.0	1005.0	975.0	979.8
15°	2187.9	2104.4	1907.5	1723.2	1532.6	1208.2	967.2	803.3	754.5	749.8	751.4
17.5°	2274.5	2175.3	1939.0	1712.2	1342.0	923.0	718.3	674.2	683.6	699.4	697.8
20°	2364.3	2250.9	1976.8	1646.0	1071.1	694.6	634.8	639.5	653.7	667.9	671.0
22.5°	2460.4	2337.5	2020.9	1487.0	817.5	604.9	601.7	608.0	622.2	637.9	641.1
25°	2592.7	2446.2	2054.0	1279.0	619.0	559.2	565.5	576.5	589.1	606.4	609.6
27.5°	2762.8	2592.7	2071.3	1008.1	535.6	518.2	519.8	535.6	551.3	567.1	567.1
30°	2983.4	2767.6	2036.7	762.4	494.6	478.8	472.5	482.0	502.5	518.2	519.8
32.5°	3180.3	2933.0	1945.3	582.8	464.7	442.6	426.9	428.4	436.3	445.8	447.3
35°	3377.1	3093.6	1789.4	489.9	433.2	408.0	384.3	371.7	365.4	360.7	365.4
37.5°	3629.2	3293.7	1581.5	445.8	406.4	374.9	341.8	315.0	293.0	278.8	282.0
40°	3953.7	3570.9	1335.7	417.4	381.2	343.4	299.3	264.6	226.8	214.2	207.9
42.5°	4489.2	3991.5	1077.4	393.8	356.0	310.3	255.2	207.9	173.3	160.7	163.8
45°	5335.1	4522.3	830.1	368.6	330.8	274.1	214.2	163.8	135.5	129.2	132.3
47.5°	6456.6	5209.1	639.5	340.2	299.3	234.7	168.5	129.2	111.8	110.3	108.7
50°	7512.0	5848.6	534.0	308.7	261.5	195.3	138.6	108.7	97.7	96.1	96.1
52.5°	8466.5	6307.0	434.7	272.5	220.5	160.7	116.6	96.1	86.6	81.9	81.9
55°	9315.5	6606.2	352.8	228.4	173.3	127.6	100.8	86.6	75.6	69.3	67.7
57.5°	9956.6	6642.5	264.6	182.7	129.2	99.2	86.6	75.6	63.0	55.1	52.0
60°	10230.7	6329.0	195.3	138.6	96.1	78.8	69.3	61.4	47.3	39.4	37.8
62.5°	9955.0	5719.4	144.9	105.5	74.0	58.3	48.8	45.7	33.1	23.6	22.1
65°	8967.4	4838.9	115.0	80.3	55.1	42.5	31.5	29.9	20.5	11.0	9.5
67.5°	7184.3	3789.8	91.4	59.9	39.4	28.4	20.5	18.9	11.0	3.2	3.2
70°	4671.9	2422.6	74.0	44.1	25.2	18.9	12.6	9.5	6.3	1.6	0.0
72.5°	2310.8	1132.5	59.9	34.7	17.3	9.5	4.7	3.2	4.7	0.0	0.0
75°	896.3	403.2	44.1	23.6	9.5	4.7	3.2	0.0	1.6	0.0	0.0
77.5°	297.7	133.9	26.8	12.6	6.3	3.2	0.0	0.0	0.0	0.0	0.0
80°	110.3	52.0	14.2	7.9	3.2	1.6	0.0	0.0	0.0	0.0	0.0
82.5°	44.1	20.5	9.5	6.3	3.2	0.0	0.0	0.0	0.0	0.0	0.0
85°	22.1	12.6	6.3	4.7	3.2	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	15.8	9.5	6.3	4.7	3.2	1.6	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)