

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: P458726

Luminaire Tested: **GALN-SA2D-735-U-SL4-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P458726  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-19)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA2D-735-U-SL4-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV  
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11921 lumens  
Efficiency: N/A  
Efficacy: 95.4 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G3

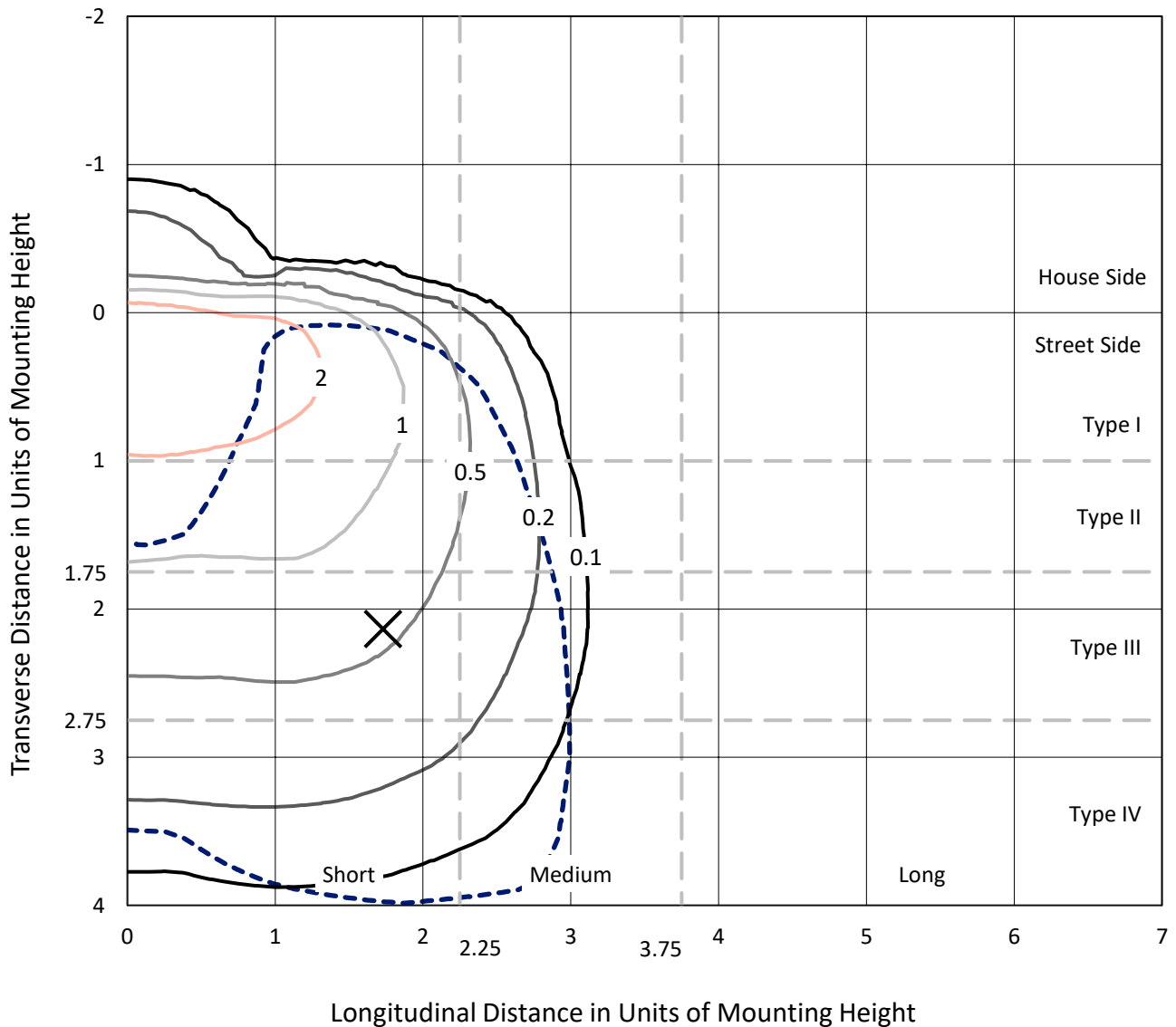
Input Watts (W): 125  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P458726  
 CATALOG NUMBER: GALN-SA2D-735-U-SL4-HSS

### Iso-Footcandle Lines of Horizontal Illumination

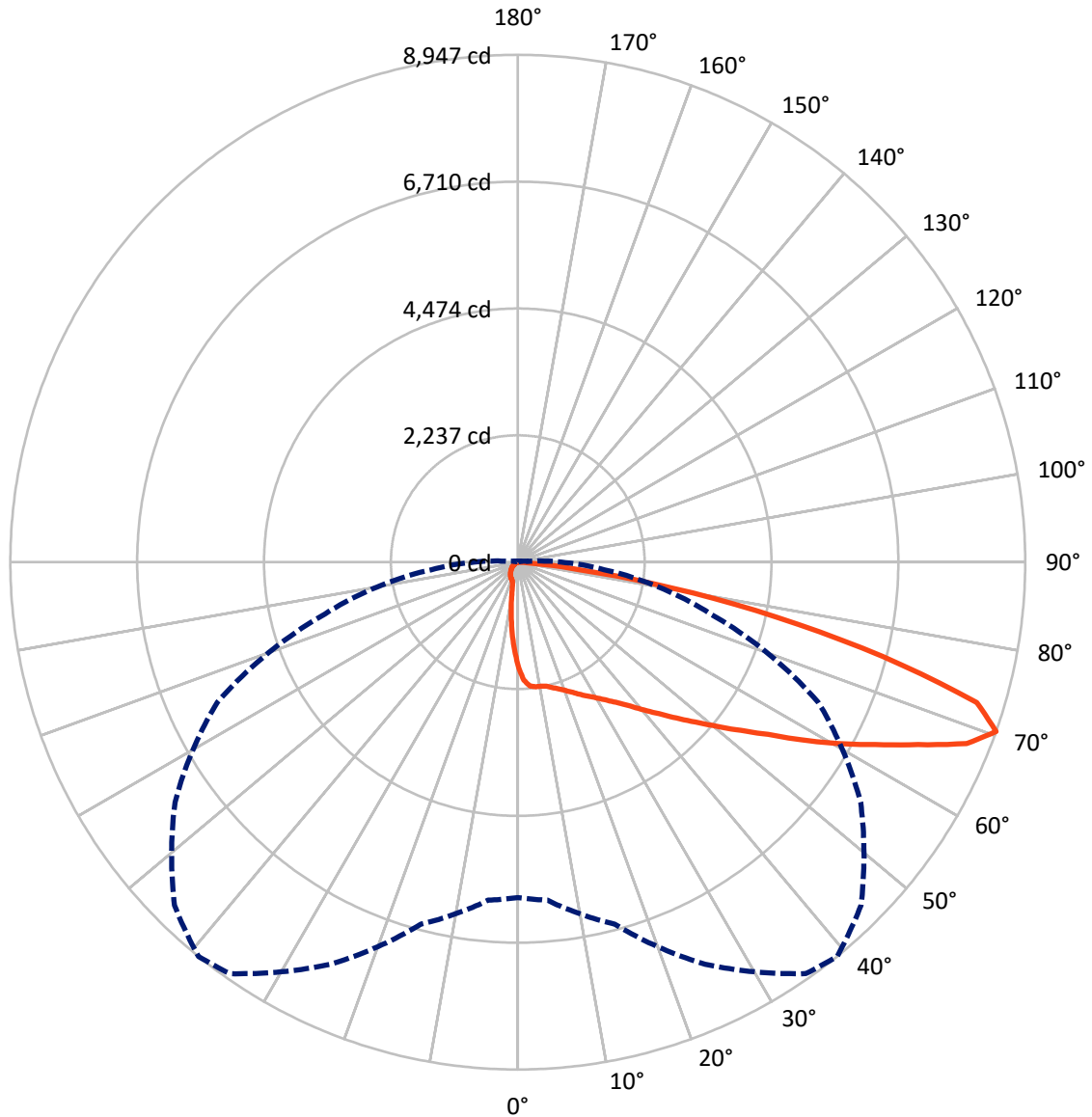
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.5 fc  
 Type IV - Short - N/A

REPORT NUMBER: P458726  
CATALOG NUMBER: GALN-SA2D-735-U-SL4-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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CATALOG NUMBER: GALN-SA2D-735-U-SL4-HSS

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	777.3	0.0	777.3
	% Fixture	6.5	0.0	6.5
<b>Street Side</b>	Lumens	11143.7	0.0	11143.7
	% Fixture	93.5	0.0	93.5
<b>Total</b>	Lumens	11921.0	0.0	11921.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	158.7	1.3
10°-20°	412.3	3.5
20°-30°	690.7	5.8
30°-40°	1071.2	9.0
40°-50°	1697.5	14.2
50°-60°	2488.3	20.9
60°-70°	3189.4	26.8
70°-80°	2004.1	16.8
80°-90°	208.8	1.8
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°	11921.0	100.0
0°-180°	11921.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P458726

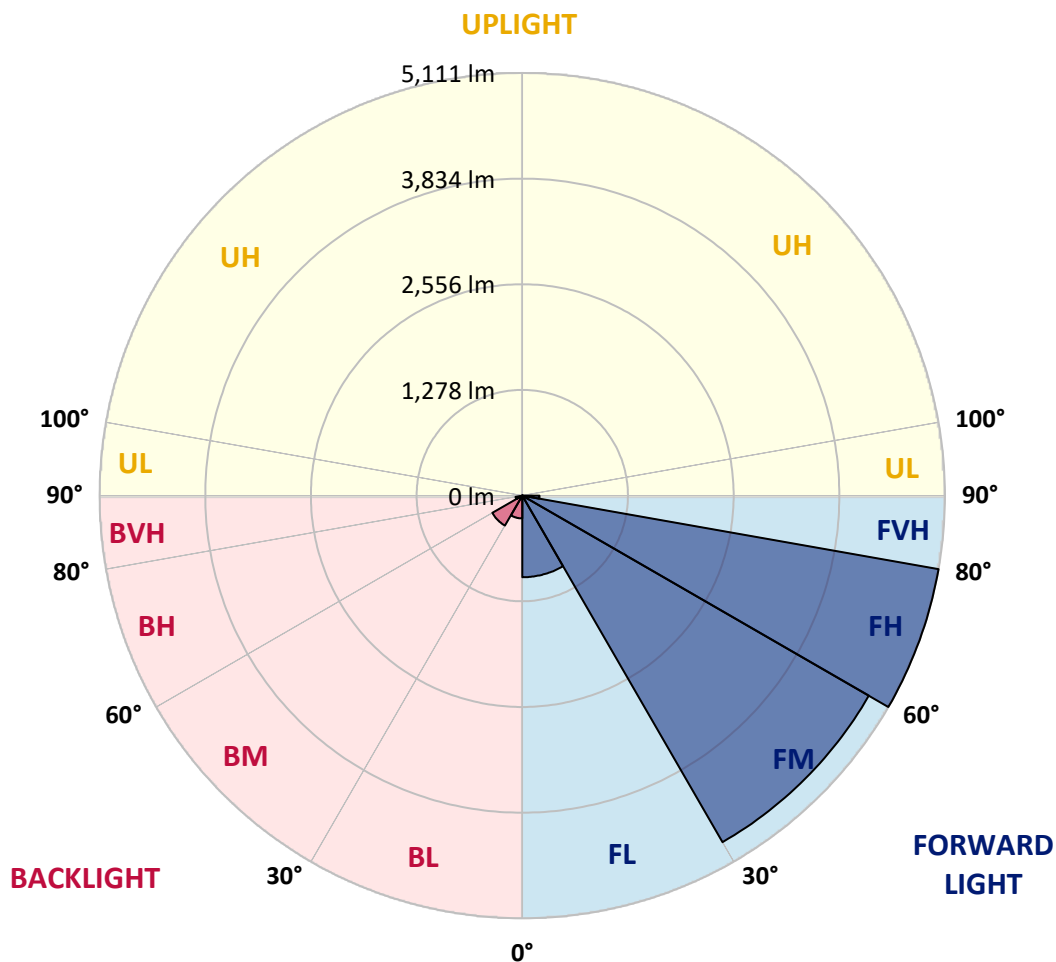
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	986.4	8.3			
FM (30°-60°)	4838.7	40.6			
FH (60°-80°)	5111.3	42.9			G3/7500
FVH (80°-90°)	207.2	1.7			G2/225
BL (0°-30°)	275.2	2.3	B1/500		
BM (30°-60°)	418.3	3.5	B1/1000		
BH (60°-80°)	82.2	0.7	B0/110		G0/110
BVH (80°-90°)	1.5	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G3**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	1860.1	1860.1	1860.1	1860.1	1860.1	1860.1	1860.1	1860.1	1860.1	1860.1	1860.1
2.5°	2149.3	2142.1	2132.4	2121.2	2089.2	2083.6	2064.4	2023.5	1974.6	1934.6	1879.3
5°	2251.0	2255.0	2247.8	2227.8	2204.5	2190.9	2166.9	2103.6	2040.3	1959.4	1868.9
7.5°	2274.2	2282.2	2273.4	2254.2	2231.8	2217.4	2198.1	2143.7	2070.0	1977.8	1853.7
10°	2271.8	2281.4	2275.8	2258.2	2239.8	2226.2	2205.3	2162.1	2102.8	2005.9	1858.5
12.5°	2267.8	2280.6	2279.8	2271.0	2255.8	2245.4	2232.6	2194.1	2138.9	2046.7	1884.9
15°	2256.6	2272.6	2287.1	2294.3	2295.1	2295.1	2279.0	2238.2	2185.3	2100.4	1919.4
17.5°	2261.4	2279.8	2315.9	2336.7	2351.1	2349.5	2332.7	2288.7	2230.2	2155.7	1955.4
20°	2291.1	2315.9	2366.4	2408.0	2422.4	2417.6	2395.2	2343.9	2277.4	2202.9	1990.7
22.5°	2364.0	2386.4	2449.7	2498.5	2509.0	2496.1	2464.1	2394.4	2334.3	2254.2	2033.1
25°	2472.9	2499.3	2557.8	2594.7	2594.7	2587.5	2542.6	2460.9	2398.4	2325.5	2088.4
27.5°	2605.1	2627.5	2685.2	2718.0	2698.8	2678.0	2633.1	2534.6	2474.5	2415.2	2154.9
30°	2738.9	2753.3	2814.2	2828.6	2808.6	2782.1	2734.1	2635.5	2582.7	2537.0	2251.0
32.5°	2865.4	2896.7	2947.1	2943.9	2916.7	2903.9	2859.8	2754.9	2725.2	2720.4	2385.6
35°	2992.0	3016.0	3060.9	3072.1	3048.1	3045.7	3013.6	2935.9	2936.7	2968.0	2595.5
37.5°	3100.9	3122.6	3175.4	3200.3	3205.1	3217.1	3204.3	3153.0	3225.9	3311.6	2873.4
40°	3192.3	3222.7	3290.0	3333.3	3382.9	3427.0	3429.4	3440.6	3587.2	3734.6	3236.3
42.5°	3263.6	3306.0	3403.7	3483.9	3597.6	3653.7	3698.5	3760.2	4007.0	4227.2	3664.1
45°	3356.5	3405.3	3527.1	3652.9	3830.7	3922.8	3985.3	4150.3	4500.4	4800.8	4103.1
47.5°	3510.3	3535.9	3660.1	3843.5	4077.4	4208.8	4330.6	4580.5	5029.9	5299.1	4468.4
50°	3708.2	3725.0	3818.7	4073.4	4376.2	4549.3	4771.2	5065.2	5579.5	5712.4	4675.0
52.5°	3926.8	3932.5	4002.9	4326.6	4711.1	4929.0	5177.3	5540.2	6027.3	6007.2	4812.0
55°	4180.8	4172.8	4232.9	4601.3	5107.6	5356.8	5645.9	6026.5	6415.8	6216.3	4890.5
57.5°	4471.6	4449.9	4508.4	4965.8	5615.5	5913.5	6207.5	6446.2	6717.0	6391.7	4928.2
60°	4776.0	4732.7	4802.4	5375.2	6213.9	6496.7	6741.0	6805.1	7034.2	6531.1	4863.3
62.5°	5018.7	5019.5	5149.3	5811.0	6829.1	7076.7	7206.4	7264.1	7307.4	6500.7	4522.0
65°	5397.6	5410.4	5617.9	6415.8	7541.3	7756.0	7844.9	7657.4	7319.4	6122.6	4009.4
67.5°	5788.5	5829.4	6209.1	7248.9	8364.0	8537.0	8422.5	7733.5	6992.5	5259.8	3040.1
70°	5915.9	5983.2	6608.8	7822.5	8857.4	8947.2	8559.4	7378.7	5845.4	3516.7	1530.0
72.5°	5420.8	5529.8	6378.9	7613.4	8542.6	8464.9	7658.2	6188.3	3716.2	1335.4	467.0
75°	3822.7	3870.8	5301.5	6315.6	6870.8	6650.5	5825.4	3989.3	1528.4	374.9	160.2
77.5°	1973.8	1950.6	3153.0	4190.4	4900.1	4671.8	3814.7	2065.2	579.2	156.2	99.3
80°	1020.6	1037.4	1364.2	2195.7	2991.2	2752.5	2033.9	957.3	308.4	86.5	76.1
82.5°	572.0	536.7	784.2	958.9	1398.7	1096.7	780.2	677.7	134.6	52.1	72.1
85°	104.1	108.9	430.2	518.3	485.4	308.4	251.5	452.6	39.3	28.8	50.5
87.5°	1.6	1.6	83.3	149.0	94.5	43.3	79.3	64.9	8.0	11.2	8.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P458726  
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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1860.1	1860.1	1860.1	1860.1	1860.1	1860.1	1860.1	1860.1	1860.1	1860.1	1860.1
2.5°	1851.3	1820.8	1764.0	1707.9	1636.6	1578.1	1538.9	1498.0	1456.3	1459.5	1469.2
5°	1819.2	1766.4	1654.2	1535.7	1421.9	1319.4	1218.4	1127.9	1091.1	1057.4	1059.0
7.5°	1787.2	1712.7	1548.5	1362.6	1190.4	1015.8	889.2	785.0	729.8	688.1	676.1
10°	1772.8	1674.2	1451.5	1196.0	951.7	761.0	598.4	513.5	447.8	427.0	432.6
12.5°	1779.2	1655.0	1364.2	1045.4	754.6	530.3	416.6	373.3	358.9	356.5	354.9
15°	1791.2	1641.4	1278.5	878.8	554.3	394.1	350.1	342.1	340.5	338.9	339.7
17.5°	1807.2	1629.4	1187.2	722.6	425.4	344.5	331.6	327.6	326.8	326.8	326.8
20°	1823.2	1615.8	1085.5	583.2	354.9	325.2	317.2	314.8	314.0	314.0	313.2
22.5°	1841.7	1603.7	982.1	458.2	326.8	311.6	304.4	302.8	302.0	301.2	301.2
25°	1868.1	1588.5	872.4	374.9	309.2	298.8	291.6	290.0	289.2	286.0	286.8
27.5°	1903.3	1577.3	759.4	323.6	293.2	282.8	278.0	275.6	274.0	271.6	272.4
30°	1951.4	1567.7	639.3	295.6	274.8	266.0	261.1	259.5	257.9	255.5	255.5
32.5°	2034.7	1571.7	512.7	273.2	257.9	247.5	242.7	241.1	239.5	237.1	237.1
35°	2159.7	1594.9	410.1	253.9	237.9	227.5	222.7	222.7	220.3	217.1	216.3
37.5°	2364.0	1654.2	329.2	235.5	218.7	209.1	203.5	201.9	199.5	194.7	193.9
40°	2605.1	1746.3	277.2	217.1	201.1	191.5	186.6	181.8	175.4	170.6	169.8
42.5°	2907.9	1840.9	240.3	198.7	184.2	175.4	169.8	161.8	152.2	145.8	145.0
45°	3223.5	1927.4	215.5	181.8	168.2	161.0	154.6	141.8	129.8	121.8	121.0
47.5°	3459.0	1943.4	195.5	165.8	154.6	147.4	138.6	122.6	106.5	99.3	96.9
50°	3570.4	1865.7	174.6	149.8	141.0	133.0	121.8	103.3	85.7	76.9	75.3
52.5°	3609.6	1731.1	157.8	135.4	127.4	117.8	104.1	83.3	67.3	58.5	57.7
55°	3593.6	1561.3	142.6	121.8	111.3	100.1	86.5	66.5	49.7	42.5	40.9
57.5°	3509.5	1345.0	127.4	108.1	95.3	84.1	68.9	49.7	33.6	27.2	26.4
60°	3282.8	1050.2	112.1	92.9	80.9	68.9	54.5	35.2	20.8	15.2	15.2
62.5°	2899.9	779.4	97.7	77.7	68.1	55.3	38.5	22.4	11.2	8.0	7.2
65°	2423.2	575.2	81.7	65.7	56.9	43.3	27.2	13.6	5.6	2.4	1.6
67.5°	1691.1	354.9	68.1	53.7	46.5	31.2	16.8	5.6	2.4	0.0	0.0
70°	768.2	169.0	52.1	40.9	35.2	22.4	8.8	3.2	1.6	0.0	0.0
72.5°	238.7	88.9	36.8	29.6	24.0	14.4	4.8	2.4	1.6	0.0	0.0
75°	110.5	56.9	23.2	16.0	13.6	7.2	3.2	1.6	0.8	0.0	0.0
77.5°	82.5	44.1	13.6	8.8	7.2	4.8	2.4	1.6	0.8	0.0	0.0
80°	72.1	22.4	8.0	5.6	4.0	3.2	1.6	0.8	0.0	0.0	0.0
82.5°	64.9	11.2	4.8	3.2	2.4	1.6	0.8	0.8	0.0	0.0	0.0
85°	35.2	6.4	3.2	2.4	1.6	0.8	0.8	0.0	0.0	0.0	0.0
87.5°	6.4	3.2	2.4	1.6	1.6	0.8	0.8	0.8	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)