

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: P647938

Luminaire Tested: **GALN-SA5A-835-U-SL4**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P647938
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-18)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5A-835-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17552.5 lumens
Efficiency: N/A
Efficacy: 114.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

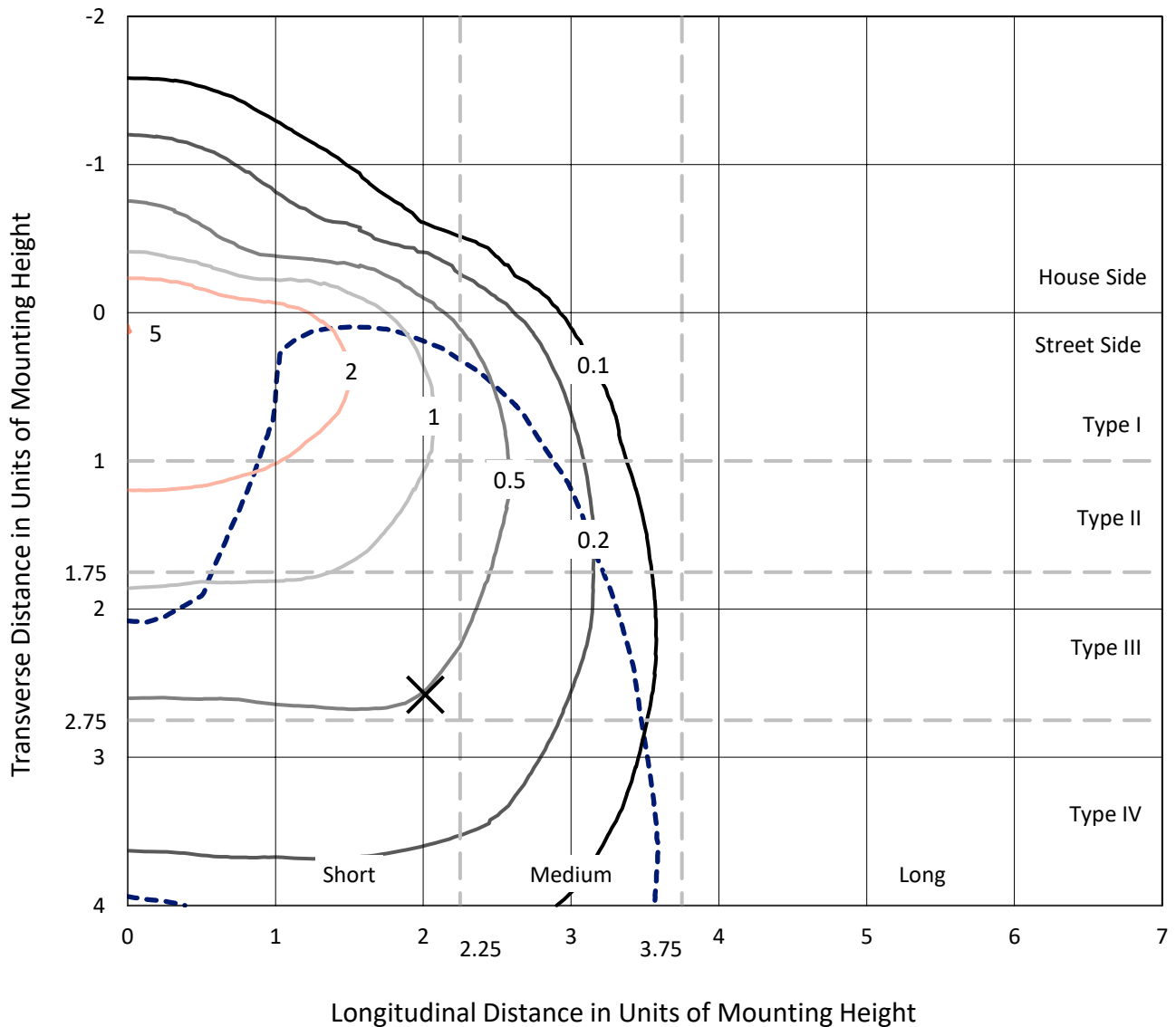
Input Watts (W): 154
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

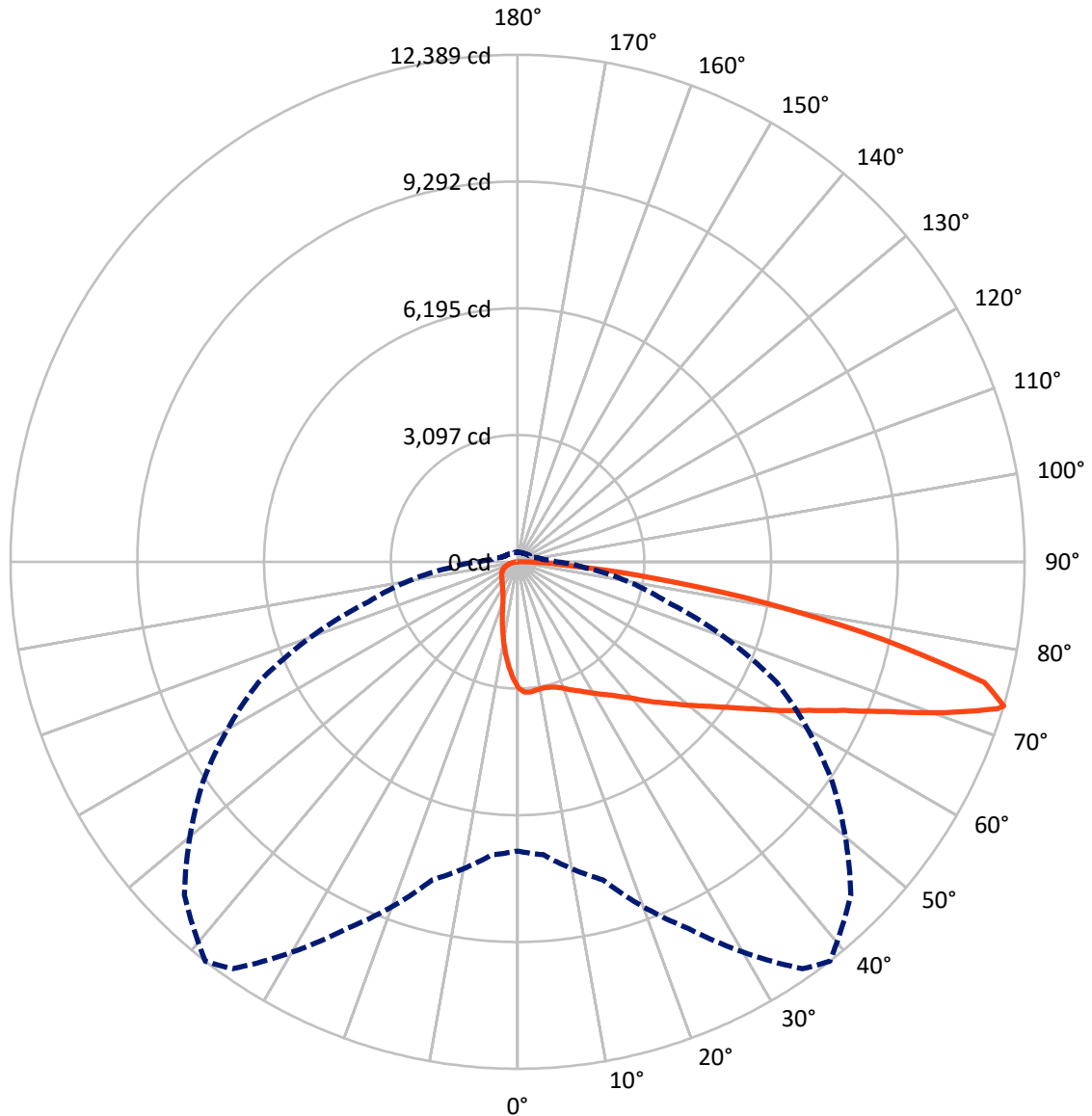
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2359.6	0.0	2359.6
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	15192.9	0.0	15192.9
	% Fixture	86.6	0.0	86.6
Total	Lumens	17552.5	0.0	17552.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	269.2	1.5
10°-20°	690.2	3.9
20°-30°	1074.8	6.1
30°-40°	1576.5	9.0
40°-50°	2338.6	13.3
50°-60°	3313.4	18.9
60°-70°	4203.1	23.9
70°-80°	3498.8	19.9
80°-90°	587.8	3.3
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°	17552.5	100.0
0°-180°	17552.5	100.0

Coefficient of Utilization

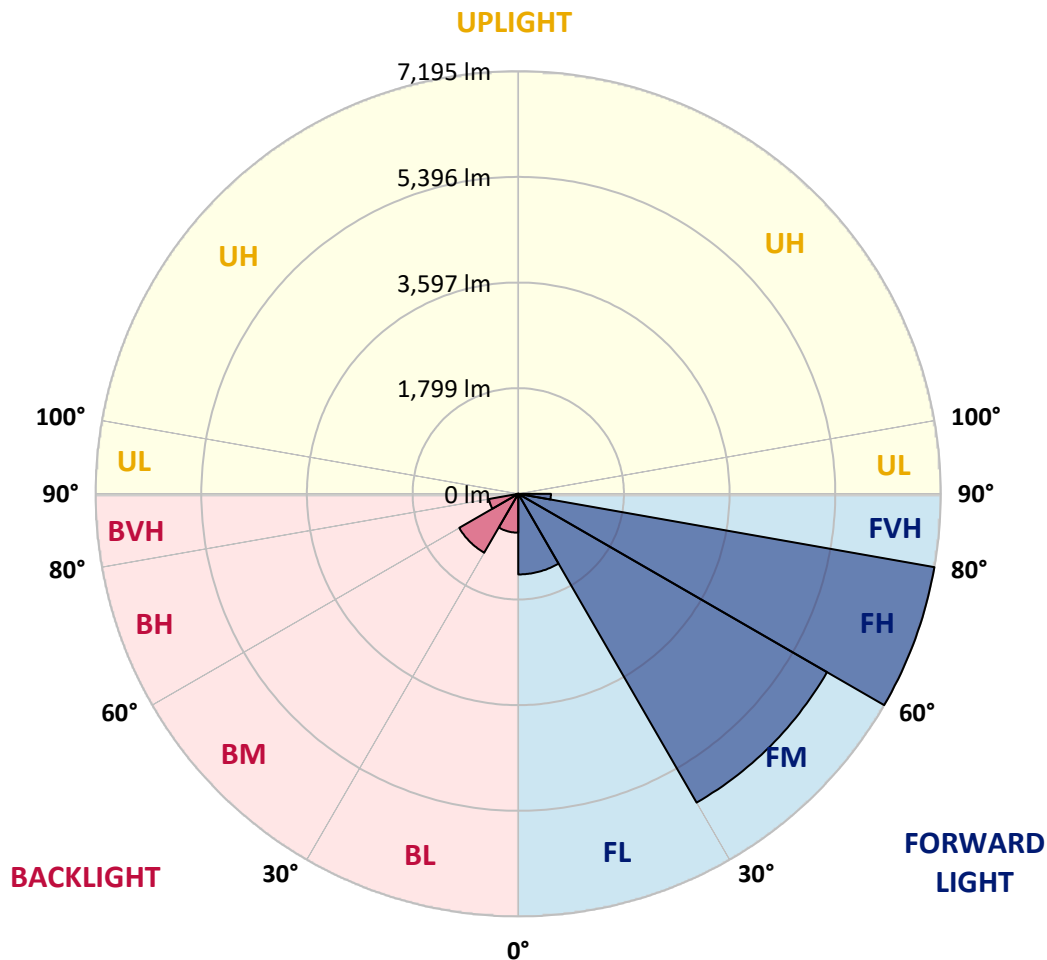


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1372.1	7.8			
FM (30°-60°)	6070.1	34.6			
FH (60°-80°)	7194.7	41.0			G3/7500
FVH (80°-90°)	556.0	3.2			G4/750
BL (0°-30°)	662.1	3.8	B2/1000		
BM (30°-60°)	1158.4	6.6	B2/2500		
BH (60°-80°)	507.2	2.9	B2/1000		G2/1000
BVH (80°-90°)	31.9	0.2			G1/100
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°	35°	38°	45°	55°	65°	75°	85°
0°	3083.7	3083.7	3083.7	3083.7	3083.7	3083.7	3083.7	3083.7	3083.7	3083.7	3083.7
2.5°	3207.6	3223.5	3215.5	3204.6	3197.7	3190.7	3180.8	3152.0	3129.3	3104.5	3065.8
5°	3231.4	3241.3	3234.3	3220.5	3204.6	3197.7	3178.8	3141.2	3104.5	3062.9	3005.4
7.5°	3217.5	3221.5	3213.5	3196.7	3182.8	3169.9	3148.1	3106.5	3061.8	3011.3	2936.0
10°	3167.9	3182.8	3182.8	3169.0	3155.0	3148.1	3126.3	3086.7	3046.0	2988.6	2899.3
12.5°	3127.3	3143.1	3156.0	3152.0	3151.1	3151.1	3134.2	3104.5	3056.9	3002.4	2896.3
15°	3099.5	3118.4	3146.1	3162.0	3171.9	3174.9	3167.9	3142.2	3093.6	3030.1	2908.2
17.5°	3093.6	3116.4	3166.9	3201.6	3227.4	3226.4	3224.4	3188.8	3135.2	3069.8	2923.1
20°	3120.3	3150.1	3220.5	3275.0	3312.6	3305.7	3294.8	3248.2	3185.8	3112.4	2937.0
22.5°	3200.7	3231.4	3308.7	3368.2	3404.8	3404.8	3372.1	3310.7	3244.3	3162.0	2955.8
25°	3315.6	3349.4	3431.6	3492.0	3508.9	3496.0	3463.3	3389.0	3312.6	3233.3	2995.4
27.5°	3456.4	3497.0	3573.4	3623.9	3618.9	3609.0	3575.3	3480.2	3403.9	3331.5	3062.9
30°	3631.8	3661.5	3740.9	3752.8	3734.9	3733.0	3685.3	3590.2	3518.8	3463.3	3159.0
32.5°	3797.4	3824.1	3887.6	3892.5	3860.8	3864.7	3820.2	3733.0	3692.3	3672.4	3320.5
35°	3972.8	3986.6	4041.2	4035.3	4014.4	4011.5	3993.6	3910.4	3923.2	3958.9	3549.6
37.5°	4119.5	4147.2	4178.0	4182.9	4181.9	4191.9	4203.8	4164.1	4238.5	4350.4	3849.9
40°	4254.3	4278.1	4323.7	4339.5	4378.2	4398.0	4438.7	4439.7	4611.2	4795.5	4219.6
42.5°	4345.5	4386.1	4471.4	4500.1	4594.3	4653.8	4714.2	4778.6	5027.5	5264.3	4655.7
45°	4424.8	4478.3	4620.1	4709.3	4837.1	4909.5	5037.4	5172.2	5530.0	5840.2	5098.8
47.5°	4544.8	4592.3	4754.8	4912.5	5105.8	5189.0	5380.3	5581.5	6049.4	6389.4	5523.0
50°	4711.2	4740.0	4905.6	5162.2	5409.0	5516.2	5768.9	6059.3	6604.4	6931.6	5895.8
52.5°	4924.4	4936.3	5068.1	5410.1	5735.2	5868.0	6203.0	6542.0	7090.1	7402.4	6191.2
55°	5176.2	5156.3	5259.4	5672.8	6107.9	6281.4	6641.2	7030.7	7636.4	7783.0	6406.3
57.5°	5424.9	5394.2	5476.5	5991.9	6567.8	6776.9	7196.2	7534.3	8124.0	8138.9	6556.9
60°	5688.6	5665.8	5763.9	6366.6	7131.8	7379.6	7767.2	8056.6	8595.9	8386.7	6580.7
62.5°	5959.2	5922.5	6062.3	6787.8	7767.2	7992.2	8367.8	8611.7	9058.8	8478.9	6351.7
65°	6221.9	6205.0	6421.1	7288.4	8490.8	8746.5	9111.3	9276.8	9429.4	8340.1	5783.8
67.5°	6501.4	6535.1	6880.1	7956.5	9434.4	9755.6	10149.1	9993.4	9535.5	7683.0	4870.8
70°	6927.6	6949.4	7482.7	8831.8	10650.6	11038.2	11228.5	10248.2	9024.1	6435.0	3661.5
72.5°	7111.0	7207.1	8021.0	9750.6	12032.4	12269.3	11591.3	9680.2	7517.4	4371.3	1924.0
73°	7070.3	7185.4	8045.7	9890.4	12140.4	12389.3	11514.0	9387.9	6988.1	3764.7	1649.4
75°	6563.8	6705.6	7723.6	9773.4	11930.3	11781.6	10271.0	8001.1	4722.2	1711.8	751.4
77.5°	5179.1	5219.8	6119.8	7892.1	9394.7	9119.2	7686.9	5000.7	1928.9	636.3	426.2
80°	2598.0	2747.6	3449.4	4521.0	6282.3	6192.1	4852.0	2365.1	803.9	373.7	282.5
82.5°	1249.9	1356.0	1680.1	2204.5	3471.3	3389.0	2402.7	1292.6	510.5	218.1	166.5
85°	804.8	884.2	1069.5	1051.6	1427.3	1362.9	1079.4	978.4	302.3	114.0	116.0
87.5°	531.3	581.8	697.8	558.0	519.4	469.8	476.8	551.2	59.5	43.6	15.9
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°	3083.7	3083.7	3083.7	3083.7	3083.7	3083.7	3083.7	3083.7	3083.7	3083.7	3083.7
2.5°	3049.9	3037.1	2994.5	2952.8	2913.2	2875.5	2850.7	2818.0	2796.2	2802.2	2811.1
5°	2973.7	2944.9	2869.5	2796.2	2726.9	2644.6	2578.2	2524.6	2484.0	2469.1	2466.1
7.5°	2893.3	2844.8	2736.7	2610.8	2492.9	2390.8	2272.9	2214.4	2146.0	2122.2	2114.3
10°	2844.8	2779.3	2627.7	2452.3	2274.8	2105.3	1977.5	1873.4	1779.2	1761.4	1752.5
12.5°	2830.9	2744.6	2540.5	2314.5	2078.6	1870.4	1681.1	1544.3	1453.1	1432.3	1401.6
15°	2822.9	2715.9	2459.2	2175.7	1876.4	1622.6	1423.4	1263.8	1180.5	1125.0	1126.0
17.5°	2816.1	2683.3	2368.0	2024.1	1701.9	1409.5	1189.5	1045.7	969.4	939.7	936.7
20°	2806.1	2644.6	2262.9	1864.5	1502.7	1215.2	1016.0	909.0	857.4	832.6	831.6
22.5°	2802.2	2606.9	2159.8	1701.9	1326.2	1065.6	901.0	825.7	792.9	776.1	776.1
25°	2812.1	2580.1	2051.9	1547.3	1169.6	937.7	821.8	770.2	751.4	742.4	739.5
27.5°	2842.8	2568.2	1944.7	1392.6	1025.9	850.5	768.2	732.5	718.6	711.7	712.7
30°	2901.3	2567.2	1839.7	1240.0	918.9	784.0	725.6	700.8	689.9	685.9	685.0
32.5°	2995.4	2589.1	1736.6	1114.1	828.6	728.6	685.9	668.1	663.1	660.1	659.1
35°	3155.0	2650.5	1634.5	999.2	759.3	679.0	648.2	639.3	632.4	635.4	636.3
37.5°	3370.1	2756.6	1537.3	909.0	706.7	642.3	616.5	608.6	604.6	607.6	610.6
40°	3658.6	2909.2	1456.1	836.6	669.1	611.6	588.8	581.8	577.9	582.9	583.8
42.5°	3976.8	3085.6	1388.7	780.1	638.4	585.8	564.0	556.1	553.1	556.1	557.0
45°	4303.8	3290.9	1354.0	739.5	612.5	567.0	544.2	535.3	528.3	526.3	529.3
47.5°	4626.0	3469.2	1353.0	714.6	591.8	550.1	525.3	515.4	506.5	501.6	500.6
50°	4888.7	3611.0	1376.8	703.8	573.9	531.3	506.5	496.6	484.7	474.8	476.8
52.5°	5086.9	3703.2	1387.7	698.8	564.0	511.5	486.7	477.8	463.9	451.0	451.0
55°	5214.8	3725.0	1360.9	693.8	556.1	490.6	463.9	455.9	442.1	429.2	429.2
57.5°	5258.4	3657.6	1264.8	682.0	548.2	472.8	441.1	434.2	423.2	410.4	408.4
60°	5157.3	3429.6	1096.3	646.3	532.3	454.0	416.3	413.3	409.4	398.5	397.5
62.5°	4767.8	2945.9	912.9	599.7	505.5	434.2	393.5	398.5	401.4	395.5	394.5
65°	4119.5	2391.8	780.1	535.3	469.8	406.4	368.7	381.6	389.5	389.5	387.6
67.5°	3341.4	1836.8	657.2	479.7	425.2	368.7	341.0	350.9	356.8	354.9	359.8
70°	2375.0	1244.0	535.3	416.3	368.7	326.1	305.3	305.3	301.3	299.3	299.3
72.5°	1151.8	710.7	434.2	347.9	314.2	278.5	261.7	254.7	246.8	245.8	240.9
73°	962.5	637.4	414.4	335.0	301.3	271.6	252.8	241.9	236.9	232.9	231.9
75°	585.8	483.7	345.9	282.5	256.7	234.0	217.0	207.2	202.2	199.3	198.3
77.5°	385.5	360.8	268.6	216.1	196.3	182.4	175.5	165.5	162.6	158.6	158.6
80°	287.4	275.5	192.3	152.7	140.8	128.9	126.8	124.9	117.0	112.0	110.0
82.5°	185.3	196.3	130.8	102.1	89.2	79.3	80.3	83.2	75.3	68.4	66.4
85°	131.9	141.7	79.3	46.6	37.7	32.7	36.6	32.7	33.7	26.8	21.8
87.5°	21.8	37.7	13.9	6.0	3.0	2.0	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)