

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: P458785

Luminaire Tested: **GALN-SA3B-735-U-SL4**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458785
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-SA3B-735-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3500K, 800mA 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: 15489 lumens
Efficiency: N/A
Efficacy: 128.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

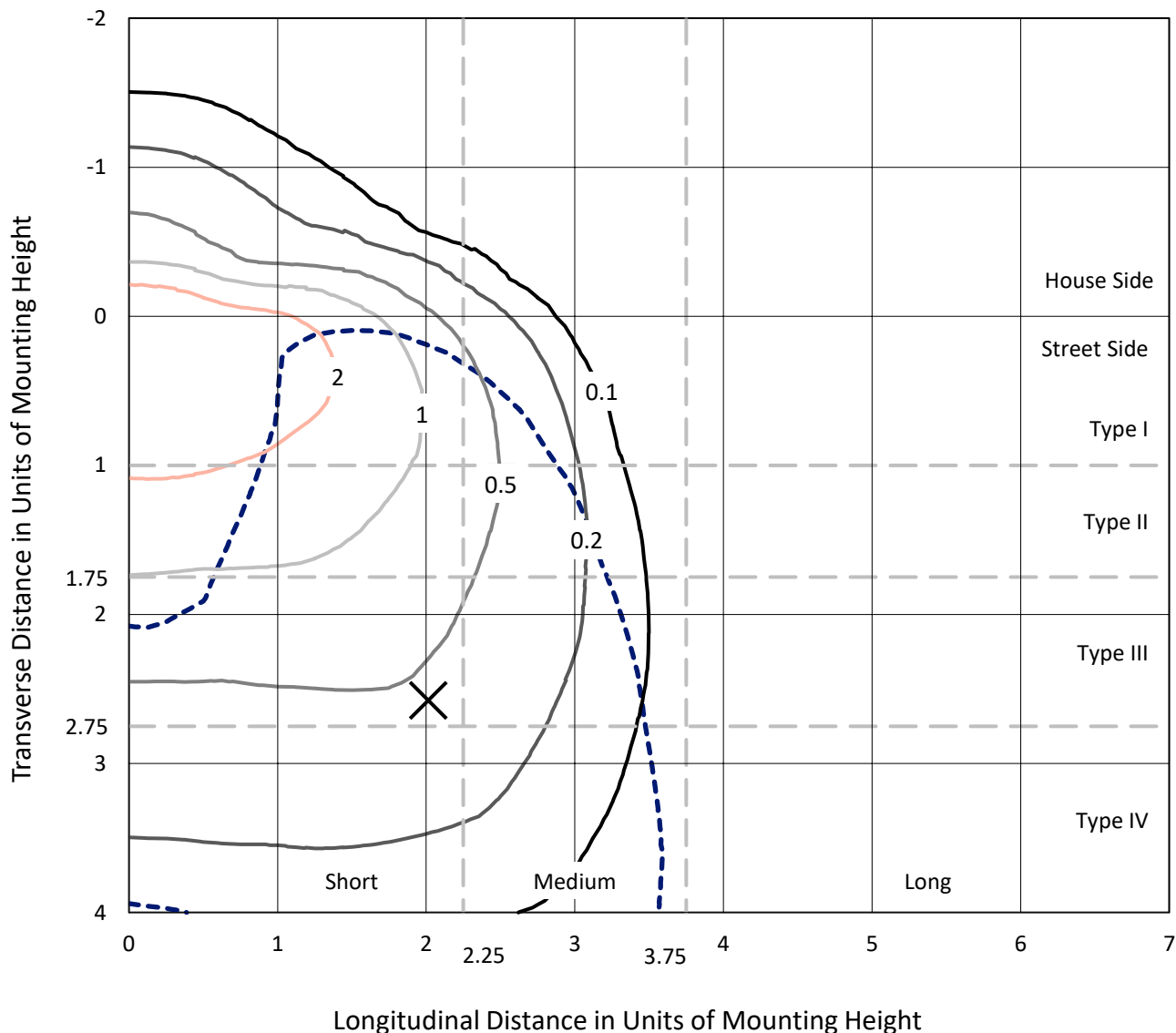
Input Watts (W): 121
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

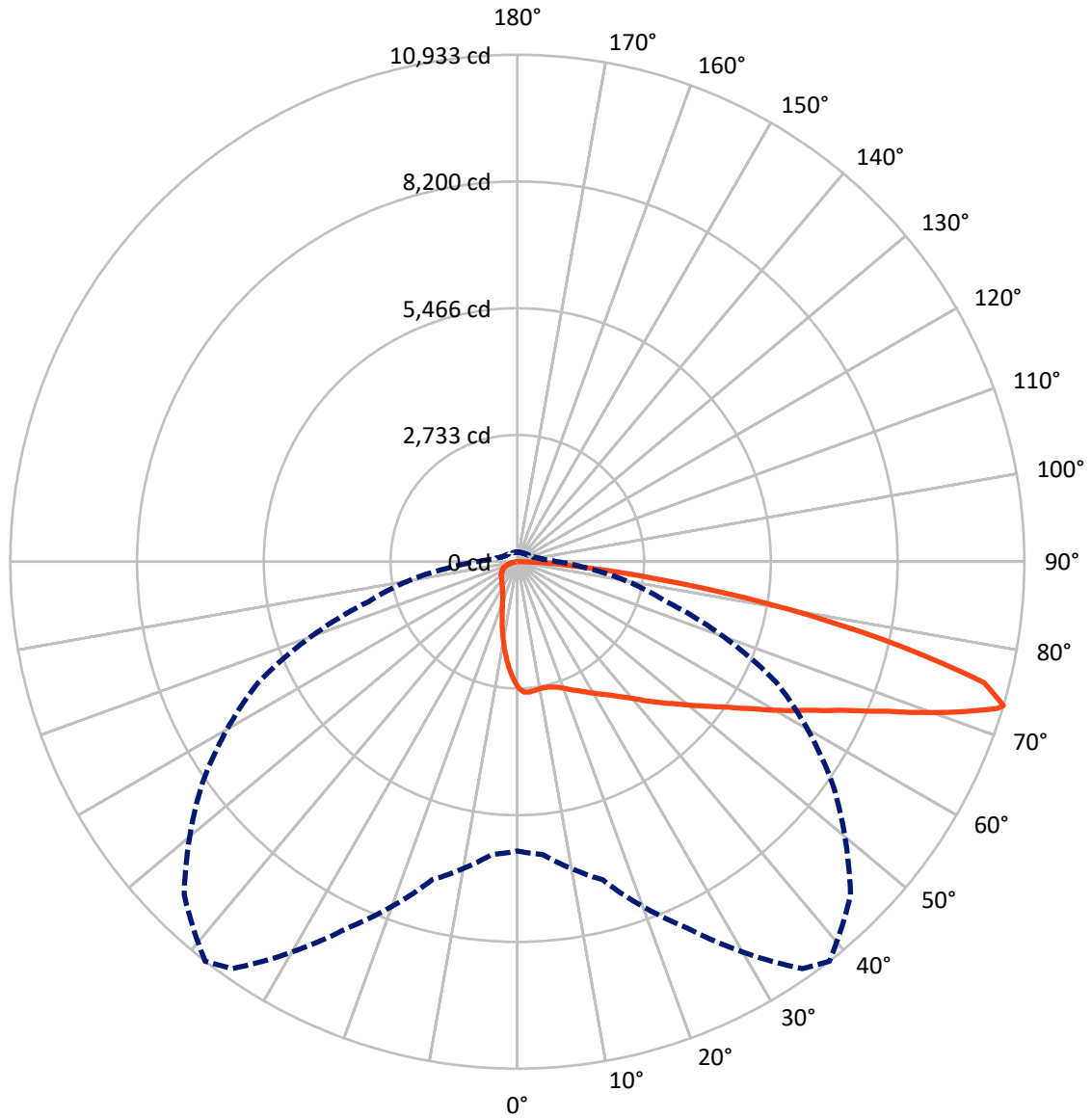
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.4 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	2082.2	0.0	2082.2
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	13406.8	0.0	13406.8
	% Fixture	86.6	0.0	86.6
Total	Lumens	15489.0	0.0	15489.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	237.5	1.5
10°-20°	609.1	3.9
20°-30°	948.5	6.1
30°-40°	1391.2	9.0
40°-50°	2063.7	13.3
50°-60°	2923.8	18.9
60°-70°	3709.0	23.9
70°-80°	3087.4	19.9
80°-90°	518.7	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°	15489.0	100.0
0°-180°	15489.0	100.0

Coefficient of Utilization



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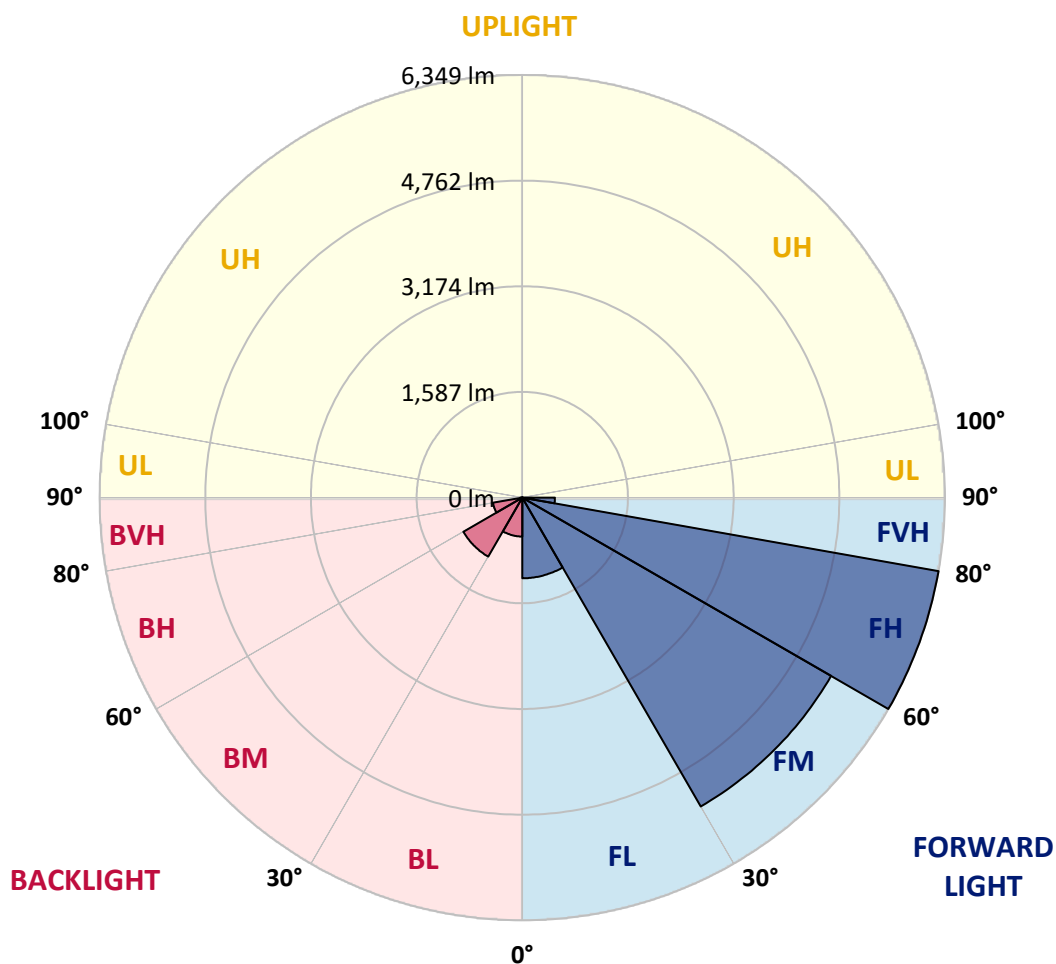
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1210.8	7.8			
FM (30°-60°)	5356.5	34.6			
FH (60°-80°)	6348.9	41.0			G3/7500
FVH (80°-90°)	490.6	3.2			G3/500
BL (0°-30°)	584.3	3.8	B2/1000		
BM (30°-60°)	1022.2	6.6	B2/2500		
BH (60°-80°)	447.5	2.9	B1/500		G1/500
BVH (80°-90°)	28.1	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-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	2721.2	2721.2	2721.2	2721.2	2721.2	2721.2	2721.2	2721.2	2721.2	2721.2	2721.2
2.5°	2830.5	2844.5	2837.5	2827.9	2821.7	2815.6	2806.9	2781.5	2761.4	2739.5	2705.4
5°	2851.5	2860.2	2854.1	2841.9	2827.9	2821.7	2805.1	2771.9	2739.5	2702.8	2652.1
7.5°	2839.2	2842.7	2835.7	2820.9	2808.6	2797.3	2778.0	2741.3	2701.9	2657.3	2590.8
10°	2795.5	2808.6	2808.6	2796.4	2784.1	2778.0	2758.8	2723.8	2687.9	2637.2	2558.5
12.5°	2759.6	2773.6	2785.0	2781.5	2780.6	2780.6	2765.8	2739.5	2697.5	2649.4	2555.8
15°	2735.1	2751.8	2776.3	2790.3	2799.0	2801.6	2795.5	2772.8	2729.9	2673.9	2566.3
17.5°	2729.9	2750.0	2794.6	2825.2	2848.0	2847.1	2845.4	2813.9	2766.6	2708.9	2579.5
20°	2753.5	2779.8	2841.9	2890.0	2923.2	2917.1	2907.5	2866.4	2811.2	2746.5	2591.7
22.5°	2824.4	2851.5	2919.7	2972.2	3004.6	3004.6	2975.7	2921.5	2862.9	2790.3	2608.3
25°	2925.8	2955.6	3028.2	3081.5	3096.4	3085.0	3056.2	2990.6	2923.2	2853.2	2643.3
27.5°	3050.0	3085.9	3153.3	3197.9	3193.5	3184.7	3155.0	3071.0	3003.7	2939.8	2702.8
30°	3204.9	3231.1	3301.1	3311.6	3295.8	3294.1	3252.1	3168.1	3105.1	3056.2	2787.6
32.5°	3350.9	3374.5	3430.5	3434.9	3406.9	3410.4	3371.0	3294.1	3258.2	3240.7	2930.2
35°	3505.8	3518.0	3566.1	3560.9	3542.5	3539.9	3524.1	3450.6	3462.0	3493.5	3132.3
37.5°	3635.2	3659.7	3686.8	3691.2	3690.3	3699.1	3709.6	3674.6	3740.2	3839.0	3397.3
40°	3754.2	3775.2	3815.4	3829.4	3863.5	3881.0	3916.9	3917.7	4069.0	4231.7	3723.5
42.5°	3834.6	3870.5	3945.7	3971.1	4054.2	4106.7	4160.0	4216.9	4436.4	4645.5	4108.4
45°	3904.6	3951.8	4076.9	4155.6	4268.5	4332.3	4445.2	4564.1	4879.9	5153.7	4499.4
47.5°	4010.4	4052.4	4195.9	4335.0	4505.5	4579.0	4747.8	4925.4	5338.2	5638.2	4873.8
50°	4157.4	4182.8	4328.8	4555.4	4773.2	4867.6	5090.7	5347.0	5828.0	6116.7	5202.6
52.5°	4345.5	4355.9	4472.3	4774.0	5060.9	5178.2	5473.8	5772.9	6256.6	6532.2	5463.3
55°	4567.6	4550.1	4641.1	5005.8	5389.8	5542.9	5860.4	6204.2	6738.6	6868.1	5653.1
57.5°	4787.2	4760.1	4832.7	5287.5	5795.7	5980.2	6350.2	6648.5	7168.9	7182.1	5786.1
60°	5019.8	4999.7	5086.3	5618.1	6293.4	6512.1	6854.1	7109.5	7585.3	7400.7	5807.1
62.5°	5258.6	5226.3	5349.6	5989.9	6854.1	7052.6	7384.1	7599.3	7993.8	7482.1	5605.0
65°	5490.4	5475.5	5666.2	6431.6	7492.6	7718.2	8040.1	8186.2	8320.9	7359.6	5103.8
67.5°	5737.1	5766.8	6071.2	7021.1	8325.3	8608.7	8955.9	8818.6	8414.5	6779.7	4298.2
70°	6113.2	6132.4	6603.0	7793.5	9398.5	9740.5	9908.5	9043.4	7963.2	5678.5	3231.1
72.5°	6275.0	6359.9	7078.0	8604.3	10617.8	10826.9	10228.6	8542.2	6633.6	3857.4	1697.8
73°	6239.2	6340.6	7099.8	8727.6	10713.2	10932.7	10160.4	8284.2	6166.6	3322.1	1455.5
75°	5792.2	5917.3	6815.6	8624.4	10527.7	10396.5	9063.5	7060.5	4167.0	1510.6	663.0
77.5°	4570.2	4606.1	5400.3	6964.3	8290.3	8047.1	6783.2	4412.8	1702.1	561.5	376.1
80°	2292.6	2424.6	3043.9	3989.5	5543.8	5464.2	4281.6	2087.0	709.4	329.8	249.3
82.5°	1103.0	1196.6	1482.6	1945.3	3063.2	2990.6	2120.2	1140.6	450.5	192.4	146.9
85°	710.2	780.2	943.8	928.0	1259.6	1202.7	952.5	863.3	266.8	100.6	102.3
87.5°	468.8	513.4	615.8	492.4	458.3	414.6	420.7	486.3	52.5	38.5	14.0
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°	2721.2	2721.2	2721.2	2721.2	2721.2	2721.2	2721.2	2721.2	2721.2	2721.2	2721.2
2.5°	2691.4	2680.0	2642.4	2605.7	2570.7	2537.5	2515.6	2486.7	2467.5	2472.7	2480.6
5°	2624.1	2598.7	2532.2	2467.5	2406.3	2333.7	2275.1	2227.8	2192.0	2178.8	2176.2
7.5°	2553.2	2510.4	2415.0	2303.9	2199.8	2109.7	2005.7	1954.1	1893.7	1872.7	1865.7
10°	2510.4	2452.6	2318.8	2164.0	2007.4	1857.8	1745.0	1653.2	1570.1	1554.3	1546.4
12.5°	2498.1	2422.0	2241.8	2042.4	1834.2	1650.5	1483.5	1362.8	1282.3	1263.9	1236.8
15°	2491.1	2396.6	2170.1	1919.9	1655.8	1431.9	1256.1	1115.2	1041.8	992.8	993.6
17.5°	2485.0	2367.8	2089.6	1786.1	1501.8	1243.8	1049.6	922.8	855.4	829.2	826.6
20°	2476.2	2333.7	1996.9	1645.3	1326.0	1072.4	896.6	802.1	756.6	734.7	733.9
22.5°	2472.7	2300.4	1905.9	1501.8	1170.3	940.3	795.1	728.6	699.8	684.9	684.9
25°	2481.5	2276.8	1810.6	1365.4	1032.1	827.5	725.1	679.6	663.0	655.1	652.5
27.5°	2508.6	2266.3	1716.1	1228.9	905.3	750.5	677.9	646.4	634.1	628.0	628.9
30°	2560.2	2265.4	1623.4	1094.2	810.8	691.9	640.3	618.4	608.8	605.3	604.4
32.5°	2643.3	2284.7	1532.5	983.1	731.2	642.9	605.3	589.5	585.2	582.5	581.7
35°	2784.1	2338.9	1442.4	881.7	670.0	599.2	572.0	564.2	558.1	560.7	561.5
37.5°	2973.9	2432.5	1356.6	802.1	623.7	566.8	544.1	537.1	533.6	536.2	538.8
40°	3228.5	2567.2	1284.9	738.2	590.4	539.7	519.6	513.4	509.9	514.3	515.2
42.5°	3509.2	2722.9	1225.4	688.4	563.3	516.9	497.7	490.7	488.1	490.7	491.6
45°	3797.9	2904.0	1194.8	652.5	540.6	500.3	480.2	472.3	466.2	464.5	467.1
47.5°	4082.2	3061.4	1193.9	630.7	522.2	485.5	463.6	454.8	447.0	442.6	441.7
50°	4314.0	3186.5	1214.9	621.0	506.4	468.8	447.0	438.2	427.7	419.0	420.7
52.5°	4488.9	3267.8	1224.6	616.7	497.7	451.3	429.5	421.6	409.4	398.0	398.0
55°	4601.7	3287.1	1200.9	612.3	490.7	433.0	409.4	402.4	390.1	378.7	378.7
57.5°	4640.2	3227.6	1116.1	601.8	483.7	417.2	389.2	383.1	373.5	362.1	360.4
60°	4551.0	3026.4	967.4	570.3	469.7	400.6	367.4	364.7	361.2	351.6	350.7
62.5°	4207.2	2599.6	805.6	529.2	446.1	383.1	347.3	351.6	354.2	349.0	348.1
65°	3635.2	2110.6	688.4	472.3	414.6	358.6	325.4	336.8	343.8	343.8	342.0
67.5°	2948.6	1620.8	579.9	423.3	375.2	325.4	300.9	309.6	314.9	313.1	317.5
70°	2095.8	1097.7	472.3	367.4	325.4	287.8	269.4	269.4	265.9	264.2	264.2
72.5°	1016.4	627.2	383.1	307.0	277.3	245.8	230.9	224.8	217.8	216.9	212.5
73°	849.3	562.4	365.6	295.6	265.9	239.7	223.0	213.4	209.1	205.6	204.7
75°	516.9	426.8	305.3	249.3	226.5	206.4	191.6	182.8	178.4	175.8	174.9
77.5°	340.3	318.4	237.0	190.7	173.2	160.9	154.8	146.1	143.4	140.0	140.0
80°	253.7	243.2	169.7	134.7	124.2	113.7	112.0	110.2	103.2	98.8	97.1
82.5°	163.6	173.2	115.5	90.1	78.7	70.0	70.8	73.5	66.5	60.4	58.6
85°	116.3	125.1	70.0	41.1	33.2	28.9	32.4	28.9	29.7	23.6	19.2
87.5°	19.2	33.2	12.2	5.2	2.6	1.7	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)