

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: P458740

Luminaire Tested: **GALN-SA2D-735-U-T3R**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P458740  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-8)  
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-T3R  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 14830 lumens  
Efficiency: N/A  
Efficacy: 118.6 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B2 - U0 - G3

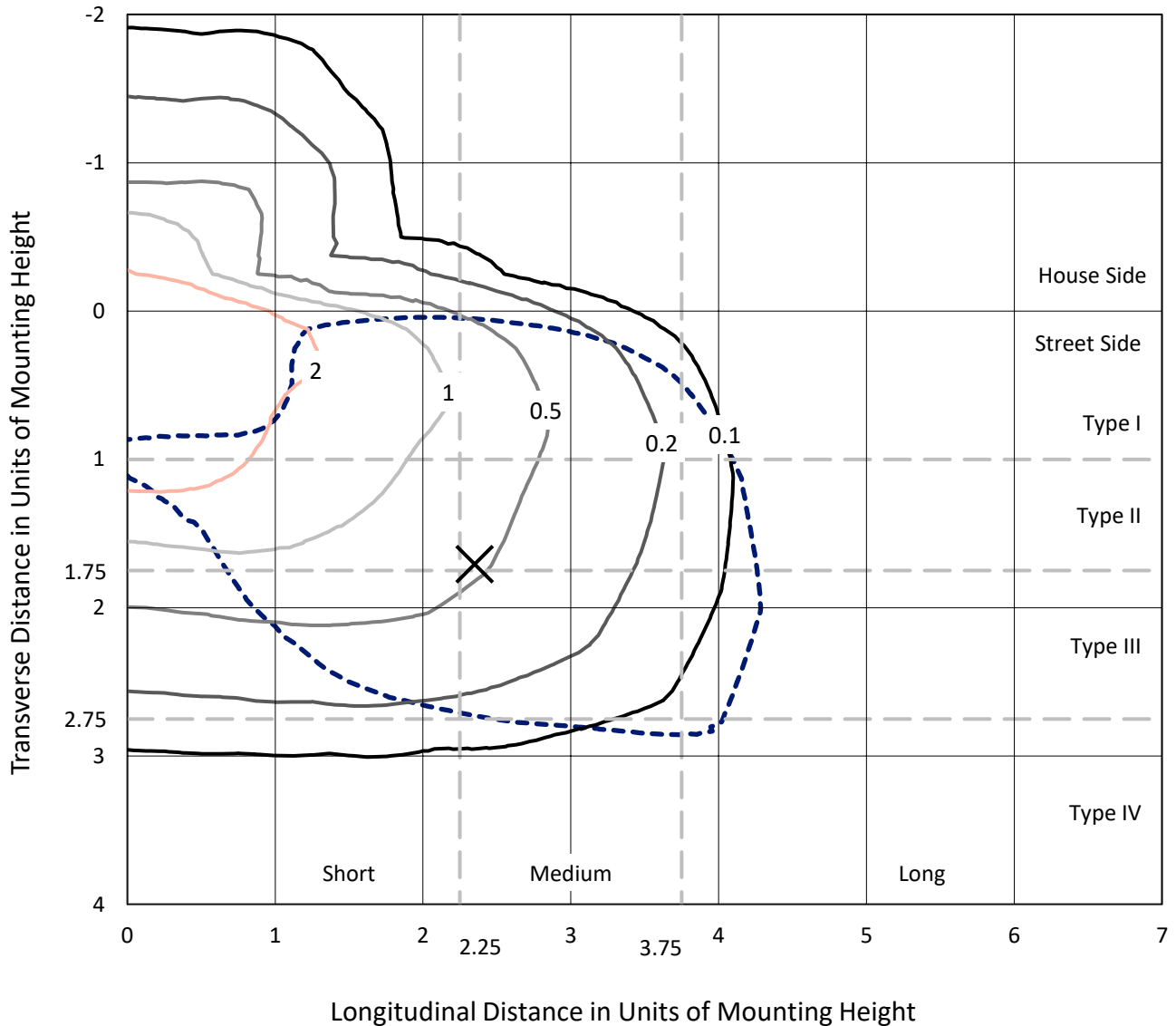
Input Watts (W): 125  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

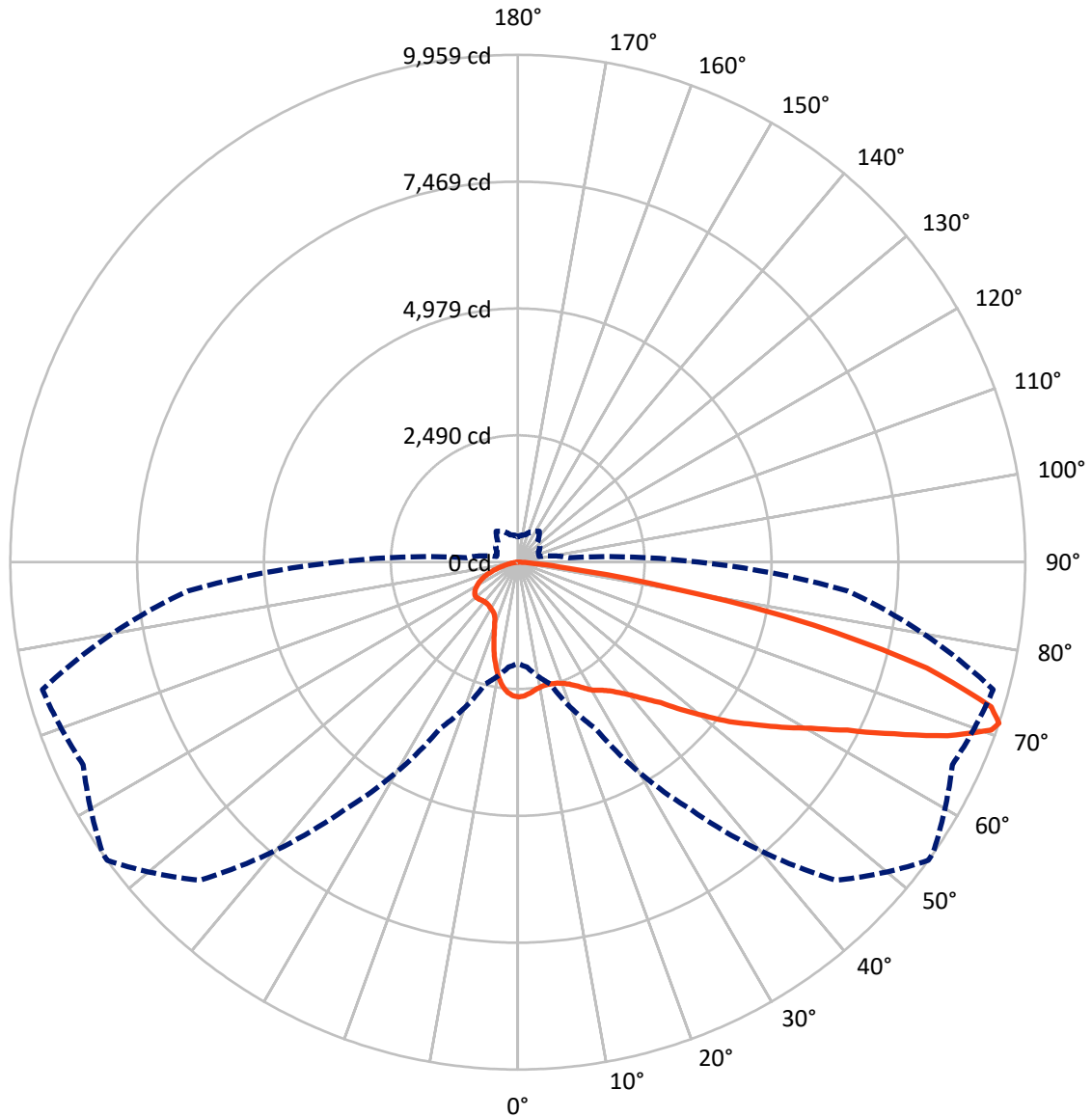
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.3 fc  
 Type IV - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral    - - - Horizontal Cone Through 71-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2677.5	0.0	2677.5
	% Fixture	18.1	0.0	18.1
<b>Street Side</b>	Lumens	12152.5	0.0	12152.5
	% Fixture	81.9	0.0	81.9
<b>Total</b>	Lumens	14830.0	0.0	14830.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	235.8	1.6
10°-20°	622.6	4.2
20°-30°	1036.7	7.0
30°-40°	1532.9	10.3
40°-50°	2159.1	14.6
50°-60°	2891.1	19.5
60°-70°	3644.1	24.6
70°-80°	2488.9	16.8
80°-90°	218.9	1.5
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°	14830.0	100.0
0°-180°	14830.0	100.0

**Coefficient of Utilization**



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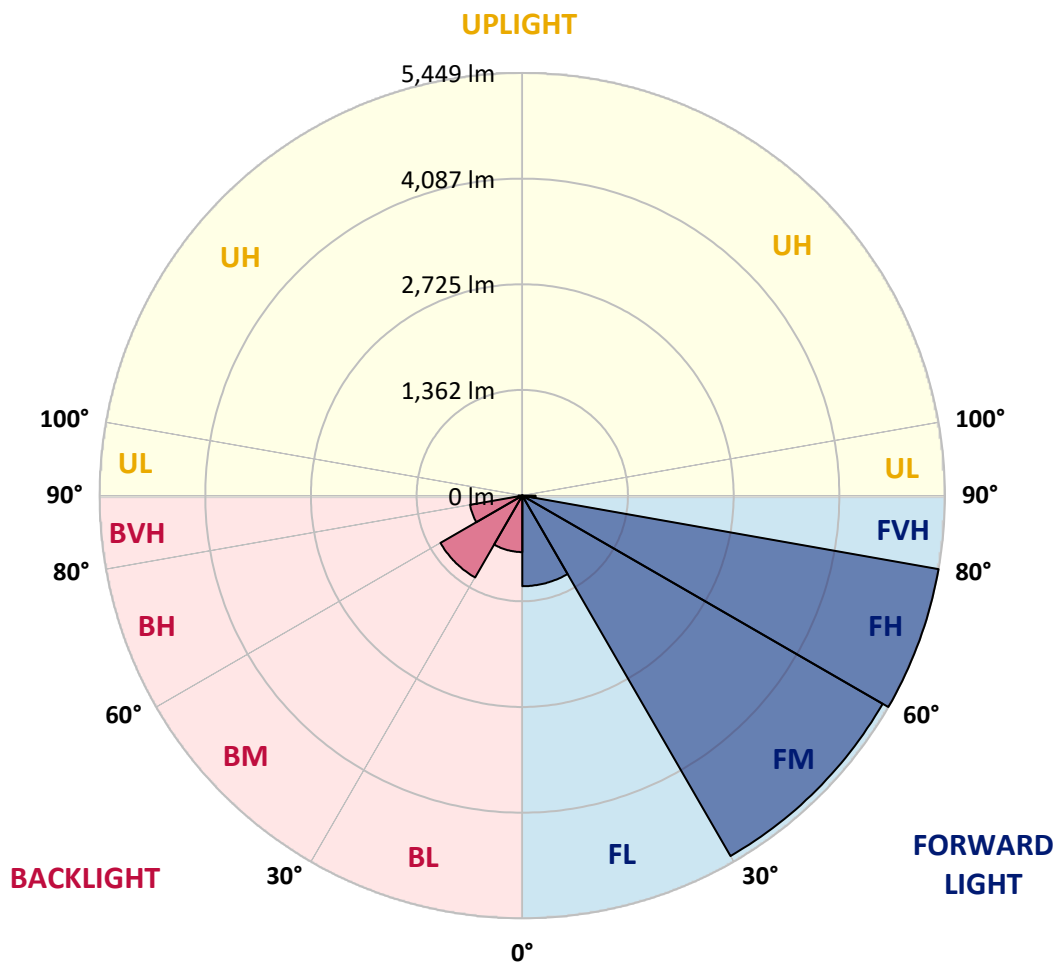
CATALOG NUMBER: GALN-SA2D-735-U-T3R

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1167.4	7.9			
FM	(30°-60°)	5365.0	36.2			
FH	(60°-80°)	5449.1	36.7			G3/7500
FVH	(80°-90°)	171.1	1.2			G2/225
BL	(0°-30°)	727.7	4.9	B2/1000		
BM	(30°-60°)	1218.2	8.2	B2/2500		
BH	(60°-80°)	683.8	4.6	B2/1000		G2/1000
BVH	(80°-90°)	47.8	0.3			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 Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	2645.9	2645.9	2645.9	2645.9	2645.9	2645.9	2645.9	2645.9	2645.9	2645.9	2645.9
2.5°	2556.2	2568.2	2571.4	2579.4	2596.2	2609.8	2623.5	2621.9	2641.1	2649.1	2656.3
5°	2442.4	2445.6	2457.6	2473.7	2503.3	2541.0	2577.8	2578.6	2625.9	2663.5	2681.9
7.5°	2359.1	2369.5	2377.5	2394.4	2425.6	2466.5	2524.9	2529.7	2613.8	2688.3	2727.6
10°	2304.6	2316.7	2325.5	2346.3	2377.5	2423.2	2486.5	2495.3	2605.0	2727.6	2796.5
12.5°	2255.0	2267.0	2275.0	2302.2	2343.1	2399.2	2470.5	2480.9	2608.2	2773.3	2871.8
15°	2285.4	2295.0	2291.8	2299.8	2327.1	2391.2	2476.9	2487.3	2620.3	2817.3	2946.3
17.5°	2420.8	2428.8	2402.4	2371.9	2359.1	2406.4	2496.9	2508.1	2644.3	2863.0	3022.4
20°	2620.3	2641.9	2584.2	2516.1	2454.4	2460.8	2538.5	2550.6	2677.9	2908.6	3100.1
22.5°	2879.8	2895.8	2825.3	2713.2	2599.4	2541.0	2601.0	2608.2	2728.4	2967.9	3185.0
25°	3185.0	3194.6	3096.9	2952.7	2788.5	2677.9	2686.7	2699.6	2811.7	3035.2	3260.3
27.5°	3481.4	3511.8	3398.9	3222.7	3006.4	2822.1	2804.5	2812.5	2902.2	3072.9	3312.4
30°	3833.1	3830.7	3711.3	3507.0	3229.9	2979.1	2915.8	2914.2	2951.1	3091.3	3350.0
32.5°	4113.4	4146.3	4029.3	3806.6	3485.4	3141.7	2992.7	2989.5	2988.7	3123.3	3406.1
35°	4432.2	4437.1	4329.7	4105.4	3761.8	3346.0	3100.1	3084.1	3065.6	3192.2	3482.2
37.5°	4717.4	4739.9	4641.3	4389.8	4033.3	3558.3	3247.5	3237.1	3181.0	3311.6	3604.0
40°	4940.1	4956.9	4897.7	4658.1	4300.9	3787.4	3434.9	3415.7	3347.6	3507.0	3766.6
42.5°	5013.0	5047.5	5070.7	4952.9	4608.5	4059.0	3665.6	3641.6	3589.5	3803.4	3954.0
45°	5018.6	5073.1	5195.7	5201.3	4917.7	4384.2	3934.8	3918.0	3914.0	4183.1	4217.6
47.5°	4976.2	5031.4	5237.3	5348.7	5193.3	4712.6	4323.3	4296.9	4299.3	4652.5	4513.2
50°	4873.6	4939.3	5189.2	5443.2	5408.7	5053.9	4733.4	4724.6	4774.3	5188.4	4820.0
52.5°	4680.6	4759.9	5139.6	5502.5	5568.9	5347.9	5199.7	5174.8	5300.6	5770.0	5155.6
55°	4146.3	4265.6	4957.7	5535.3	5721.1	5629.0	5619.4	5664.3	5830.9	6404.5	5524.9
57.5°	3867.5	3957.2	4562.8	5540.9	5913.4	5955.9	6109.7	6120.9	6412.5	7078.1	5942.2
60°	3715.3	3794.6	4346.5	5504.1	6181.8	6360.4	6611.1	6651.2	6980.4	7807.9	6374.8
62.5°	3582.3	3650.4	4216.8	5376.7	6484.6	6960.4	7260.8	7280.0	7625.3	8613.8	6801.8
65°	3269.1	3346.8	3955.6	5249.3	6745.7	7710.2	8122.7	8100.3	8311.8	9309.1	7069.3
67.5°	2847.0	2945.5	3467.8	4809.5	6874.7	8529.7	9093.6	9065.6	8989.5	9764.9	7146.2
70°	2307.8	2360.7	2843.8	4049.3	6359.6	8959.8	9860.2	9830.6	9409.2	9825.0	6782.6
71°	1985.8	2068.3	2476.1	3596.7	5931.0	8828.5	9958.7	9950.7	9410.0	9659.1	6508.6
72.5°	1550.0	1600.5	1961.0	2786.9	5041.1	8081.9	9715.2	9745.7	9205.7	9198.5	5943.8
75°	980.5	1002.9	1230.4	1640.6	2766.1	5723.6	8293.3	8375.9	8174.0	7529.1	4420.2
77.5°	569.6	598.4	737.0	966.9	1195.2	3106.5	5934.2	6023.9	5679.5	4145.5	1809.6
80°	331.6	363.7	485.4	561.5	548.7	1152.7	3021.6	3174.6	2459.2	1047.0	507.9
82.5°	184.2	205.9	341.3	342.1	292.4	376.5	950.9	994.9	701.7	422.2	207.5
85°	133.8	151.4	220.3	199.5	140.2	161.8	330.8	346.9	283.6	177.8	67.3
87.5°	47.3	67.3	121.0	96.1	38.5	33.6	95.3	77.7	72.1	49.7	15.2
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°	2645.9	2645.9	2645.9	2645.9	2645.9	2645.9	2645.9	2645.9	2645.9	2645.9	2645.9
2.5°	2660.3	2661.9	2653.9	2639.5	2625.1	2606.6	2585.8	2569.8	2562.6	2561.8	2561.0
5°	2689.1	2693.2	2662.7	2617.9	2568.2	2507.3	2455.2	2396.0	2380.7	2356.7	2363.9
7.5°	2735.6	2733.2	2673.1	2577.8	2461.6	2332.7	2223.7	2160.5	2094.8	2076.3	2077.1
10°	2802.1	2786.9	2673.1	2496.1	2302.2	2110.8	1958.6	1862.5	1810.4	1767.1	1751.1
12.5°	2872.6	2834.1	2647.5	2381.5	2097.2	1862.5	1699.0	1569.3	1535.6	1500.4	1501.2
15°	2939.9	2875.8	2597.0	2220.5	1876.1	1597.3	1438.7	1361.0	1350.6	1354.6	1353.8
17.5°	3000.8	2905.4	2520.1	2041.1	1618.1	1369.8	1285.7	1291.3	1319.3	1339.4	1341.8
20°	3062.4	2923.1	2405.6	1800.8	1374.6	1232.0	1235.2	1279.3	1321.7	1349.0	1353.0
22.5°	3120.9	2931.1	2271.0	1568.5	1198.4	1173.5	1220.8	1268.1	1309.7	1336.2	1340.2
25°	3159.4	2912.6	2080.3	1325.7	1111.9	1152.7	1202.4	1242.4	1277.7	1304.9	1311.3
27.5°	3169.8	2853.4	1844.0	1129.5	1071.8	1132.7	1178.4	1208.0	1235.2	1260.9	1265.7
30°	3164.2	2766.1	1584.5	1014.1	1048.6	1109.5	1144.7	1166.3	1199.2	1219.2	1223.2
32.5°	3155.4	2664.3	1313.7	952.5	1029.4	1087.8	1108.7	1127.9	1127.1	1119.1	1124.7
35°	3158.6	2542.6	1094.2	915.6	1012.5	1071.8	1089.4	1065.4	996.5	993.3	990.1
37.5°	3175.4	2422.4	934.8	890.0	1003.7	1069.4	1079.0	968.5	907.6	879.6	872.4
40°	3218.6	2282.2	829.9	870.7	1002.9	1087.8	1031.8	919.6	802.7	748.2	744.2
42.5°	3276.3	2144.4	765.8	858.7	1012.5	1115.9	1012.5	850.7	723.4	691.3	686.5
45°	3362.0	1986.6	730.6	853.1	1027.0	1126.3	1006.1	800.3	691.3	665.7	665.7
47.5°	3459.0	1836.0	711.3	849.1	1045.4	1119.1	949.3	784.2	676.1	679.3	694.5
50°	3555.1	1705.5	696.9	840.3	1061.4	1115.1	926.0	783.4	680.1	721.0	748.2
52.5°	3666.4	1613.3	679.3	825.9	1061.4	1089.4	918.8	799.5	691.3	703.3	715.3
55°	3801.0	1584.5	656.9	794.6	1042.2	1025.4	914.8	822.7	699.3	671.3	676.1
57.5°	3978.9	1631.0	635.2	755.4	998.1	958.9	913.2	829.1	680.9	657.7	652.9
60°	4185.5	1723.1	628.8	715.3	938.0	902.0	903.6	810.7	655.3	631.2	635.2
62.5°	4330.5	1778.3	624.8	684.9	872.4	839.5	880.4	788.2	644.0	623.2	627.2
65°	4330.5	1711.1	588.0	638.4	787.4	764.2	852.3	760.2	629.6	605.6	601.6
67.5°	4166.3	1514.8	531.9	568.8	693.7	678.5	813.1	726.6	608.0	589.6	580.0
70°	3738.5	1148.7	461.4	487.0	575.2	588.8	762.6	680.9	572.0	549.5	535.1
71°	3550.3	1000.5	431.8	445.4	529.5	549.5	738.6	661.7	555.9	523.9	498.3
72.5°	3187.4	842.7	386.9	392.5	452.6	488.6	688.1	624.8	525.5	479.8	451.0
75°	2421.6	615.2	311.6	308.4	334.8	387.7	582.4	556.7	460.6	398.9	382.1
77.5°	1046.2	334.8	233.1	235.5	227.5	294.0	458.2	478.2	394.9	324.4	309.2
80°	317.2	193.1	159.4	162.6	152.2	197.1	322.8	374.9	317.2	252.3	231.5
82.5°	162.6	115.4	108.9	107.3	96.9	111.3	195.5	256.3	226.7	157.8	139.4
85°	70.5	61.7	53.7	52.1	45.7	40.1	69.7	128.2	120.2	88.1	84.1
87.5°	17.6	16.0	10.4	9.6	5.6	0.8	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)