

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: P528817

Luminaire Tested: **GALN-SA3D-830-U-T3R-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P528817  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-11)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA3D-830-U-T3R-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11160 lumens  
Efficiency: N/A  
Efficacy: 60.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G1

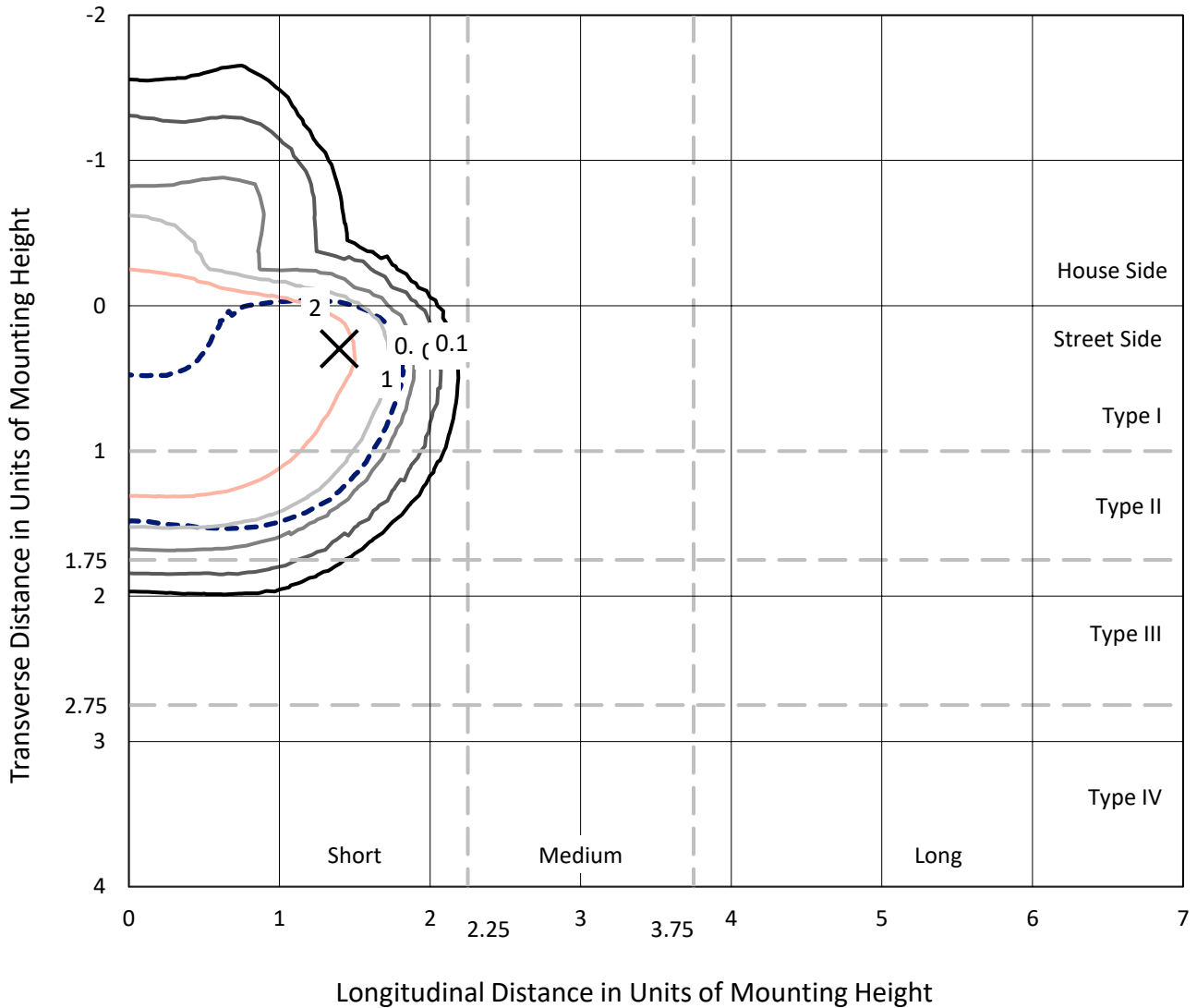
Input Watts (W): 184  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

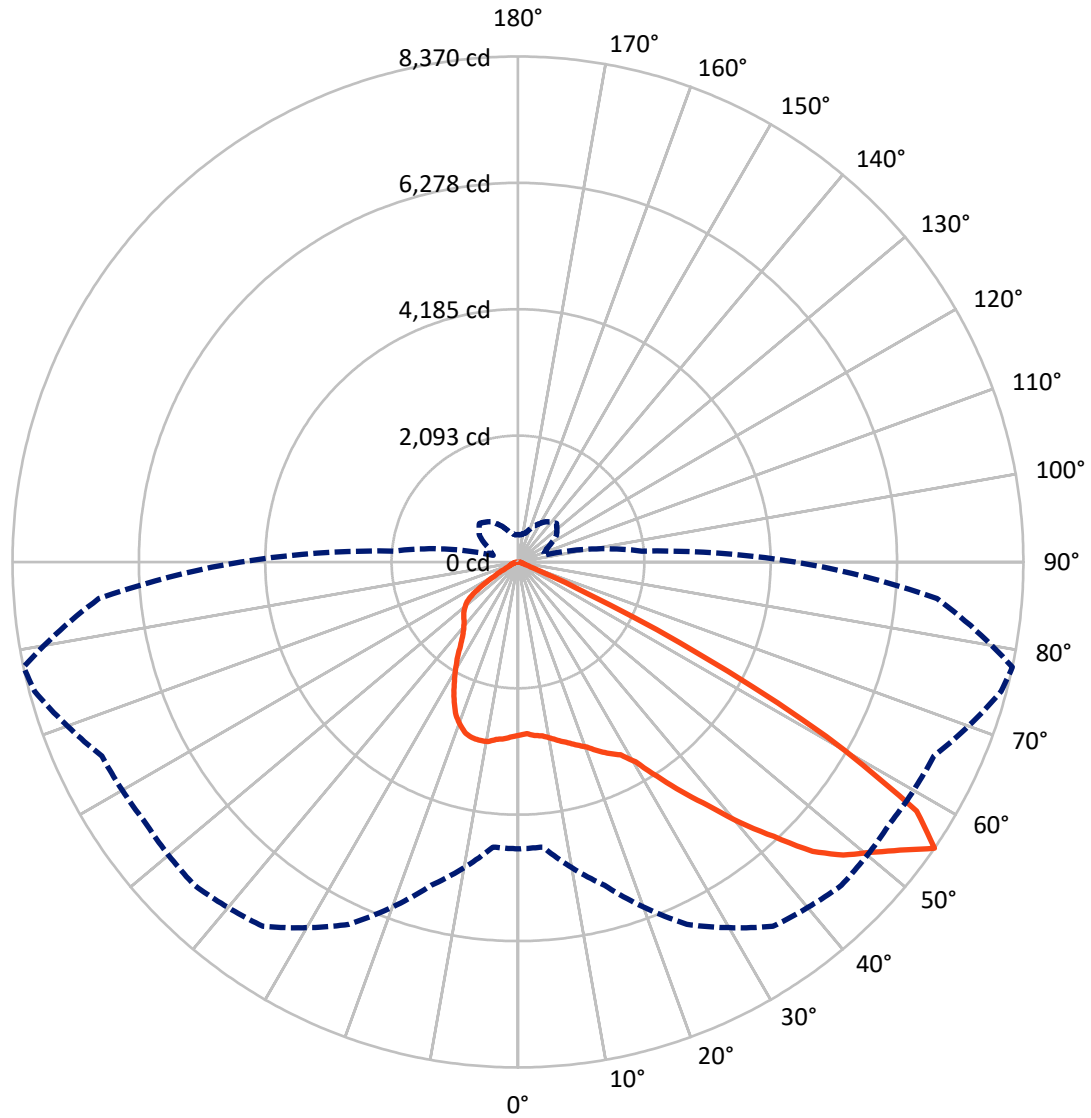
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.9 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 78-Deg Lateral      - - - Horizontal Cone Through 55-Deg Vertical

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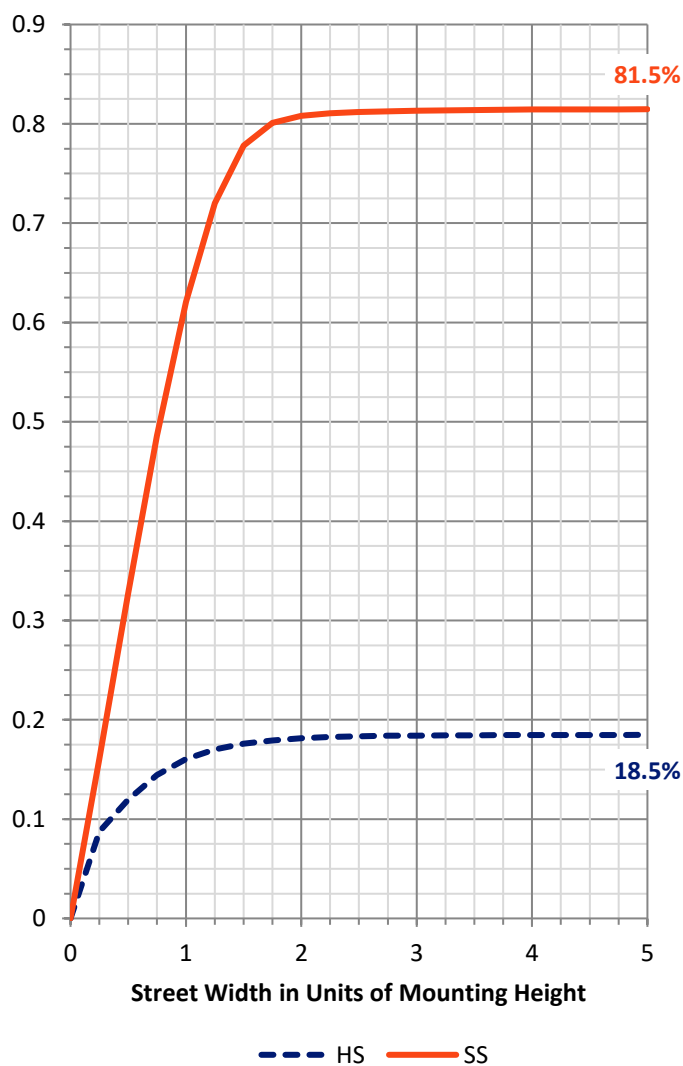
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2072.9	0.0	2072.9
	% Fixture	18.6	0.0	18.6
<b>Street Side</b>	Lumens	9087.2	0.0	9087.2
	% Fixture	81.4	0.0	81.4
<b>Total</b>	Lumens	11160.0	0.0	11160.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	255.8	2.3
10°-20°	677.1	6.1
20°-30°	1186.8	10.6
30°-40°	1956.9	17.5
40°-50°	2847.6	25.5
50°-60°	3226.6	28.9
60°-70°	922.6	8.3
70°-80°	71.6	0.6
80°-90°	14.9	0.1
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°	11160.0	100.0
0°-180°	11160.0	100.0

**Coefficient of Utilization**



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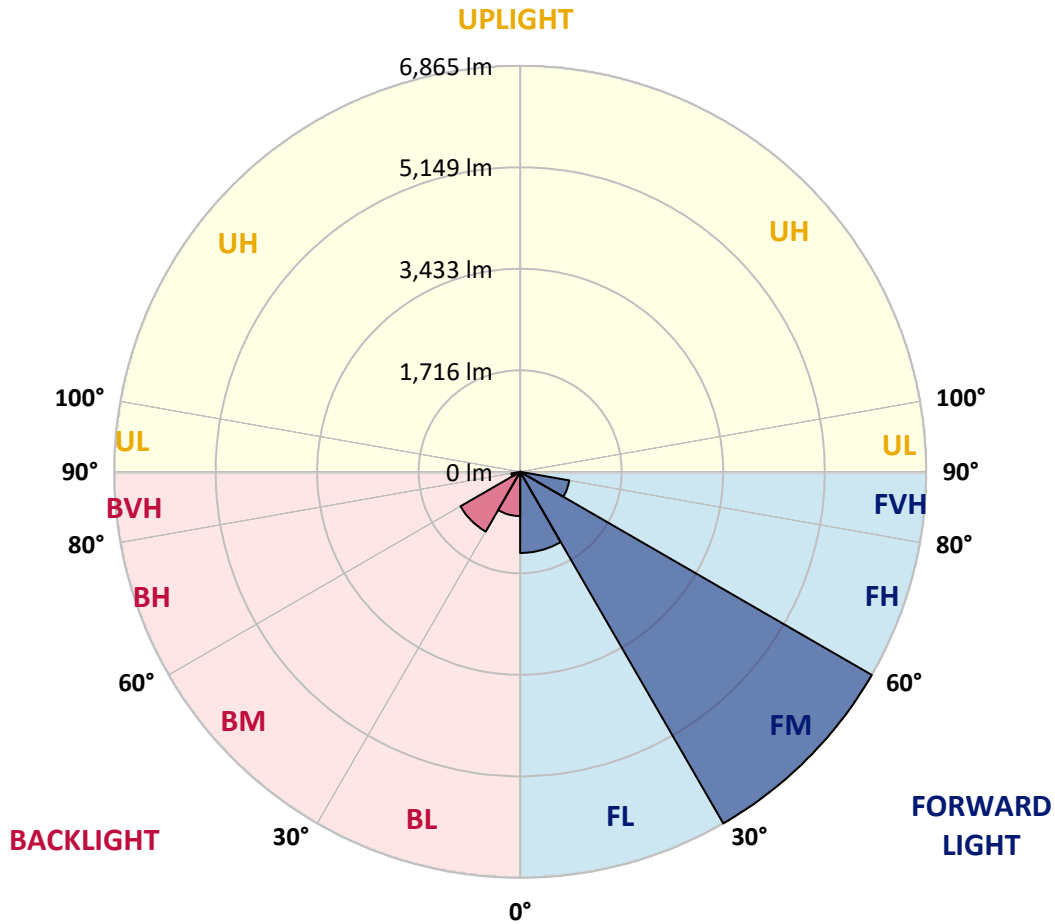
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1371.9	12.3			
FM (30°-60°)	6865.1	61.5			
FH (60°-80°)	842.9	7.6			G1/1800
FVH (80°-90°)	7.3	0.1			G0/10
BL (0°-30°)	747.9	6.7	B2/1000		
BM (30°-60°)	1166.0	10.4	B2/2500		
BH (60°-80°)	151.3	1.4	B1/500		G1/500
BVH (80°-90°)	7.6	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G1**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	2869.2	2869.2	2869.2	2869.2	2869.2	2869.2	2869.2	2869.2	2869.2	2869.2	2869.2
2.5°	2697.6	2723.6	2727.6	2759.5	2757.5	2811.4	2827.3	2829.3	2865.3	2847.3	2893.2
5°	2621.8	2607.9	2601.9	2657.7	2673.7	2721.6	2761.5	2785.4	2859.3	2885.2	2933.1
7.5°	2554.0	2554.0	2558.0	2607.9	2601.9	2663.7	2705.6	2779.5	2887.2	2909.1	2967.0
10°	2488.1	2464.2	2494.1	2546.0	2589.9	2617.8	2705.6	2775.5	2901.2	2965.0	3044.8
12.5°	2454.2	2466.2	2470.2	2508.1	2556.0	2639.8	2687.7	2803.4	3000.9	3038.8	3124.6
15°	2667.7	2643.8	2585.9	2552.0	2591.9	2631.8	2751.5	2869.2	3052.8	3106.7	3202.5
17.5°	2915.1	2895.2	2847.3	2755.5	2665.7	2739.5	2833.3	2941.1	3108.7	3188.5	3330.2
20°	3238.4	3206.4	3158.6	2979.0	2901.2	2821.4	2921.1	3048.8	3200.5	3272.3	3418.0
22.5°	3623.5	3623.5	3515.7	3298.2	3136.6	3060.8	3102.7	3176.5	3302.2	3400.0	3543.7
25°	4024.5	4012.5	3914.8	3689.3	3416.0	3326.2	3374.1	3425.9	3459.9	3513.7	3609.5
27.5°	4483.4	4413.6	4289.9	4040.5	3799.1	3625.5	3677.3	3631.4	3589.5	3617.5	3755.2
30°	4794.7	4838.6	4681.0	4441.5	4214.1	4020.5	4030.5	3990.6	3799.1	3839.0	3920.8
32.5°	5117.9	5145.9	5058.1	4926.4	4698.9	4473.5	4391.7	4357.7	4214.1	4232.0	4152.2
35°	5387.3	5441.2	5363.4	5305.5	5239.7	5058.1	4832.6	4942.4	4710.9	4667.0	4459.5
37.5°	5634.7	5618.8	5710.6	5650.7	5636.7	5509.0	5261.6	5283.6	5127.9	5117.9	4878.5
40°	5856.2	5860.2	5985.9	6013.8	5958.0	5730.5	5371.3	5544.9	5670.6	5682.6	5375.3
42.5°	6039.8	6093.6	6201.4	6426.9	6343.1	5964.0	5485.1	5674.6	6141.5	6215.4	5846.2
45°	6199.4	6309.1	6442.8	6644.4	6596.5	6295.2	5768.4	5942.0	6644.4	6837.9	6289.2
47.5°	6209.4	6353.0	6498.7	6798.0	6857.8	6472.8	6061.7	6365.0	7043.4	7252.9	6612.4
50°	6169.5	6245.3	6536.6	6861.8	6997.5	6762.1	6472.8	6720.2	7430.5	7562.2	6776.0
52.5°	5696.6	5754.4	6339.1	6921.7	7248.9	7089.3	7017.5	7215.0	7825.6	7923.3	6929.7
55°	4748.8	4738.8	5542.9	6620.4	7364.7	7574.2	7530.3	7600.1	8282.5	8370.3	6967.6
57.5°	3248.3	3429.9	4124.3	5513.0	6656.3	7460.4	7506.3	7390.6	7749.7	7783.7	6073.7
60°	1751.9	1827.7	2386.4	3679.3	5068.1	6079.7	6199.4	5989.9	5962.0	5866.2	4335.8
62.5°	696.4	734.3	1051.5	1821.7	2761.5	3695.3	3952.7	3866.9	3683.3	3431.9	2244.7
65°	331.2	355.2	522.8	852.0	1225.1	1540.4	1797.8	1877.6	1384.7	1247.1	740.3
67.5°	225.5	243.4	381.1	486.9	437.0	456.9	594.6	552.7	325.2	277.3	205.5
70°	171.6	183.6	305.3	331.2	195.5	137.7	153.6	143.7	133.7	135.7	133.7
72.5°	121.7	131.7	223.5	195.5	85.8	63.8	81.8	97.8	97.8	97.8	95.8
75°	73.8	83.8	129.7	75.8	33.9	33.9	51.9	65.8	69.8	71.8	67.8
77.5°	37.9	47.9	43.9	21.9	21.9	25.9	37.9	45.9	49.9	49.9	47.9
80°	8.0	8.0	8.0	12.0	21.9	27.9	37.9	41.9	47.9	47.9	43.9
82.5°	0.0	2.0	6.0	12.0	20.0	25.9	35.9	41.9	47.9	49.9	45.9
85°	0.0	2.0	4.0	8.0	14.0	16.0	14.0	12.0	12.0	12.0	12.0
87.5°	0.0	0.0	2.0	2.0	2.0	4.0	4.0	4.0	4.0	4.0	4.0
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°	2869.2	2869.2	2869.2	2869.2	2869.2	2869.2	2869.2	2869.2	2869.2	2869.2	2869.2
2.5°	2897.2	2903.2	2893.2	2891.2	2883.2	2907.2	2849.3	2835.3	2871.2	2837.3	2845.3
5°	2935.1	2949.1	2931.1	2901.2	2857.3	2789.4	2731.6	2655.7	2619.8	2593.9	2589.9
7.5°	2963.0	2973.0	2955.0	2859.3	2727.6	2556.0	2428.3	2334.5	2260.7	2238.7	2202.8
10°	3076.8	3078.7	2989.0	2777.5	2520.1	2294.6	2099.1	1955.4	1881.6	1835.7	1815.7
12.5°	3152.6	3148.6	2967.0	2615.8	2272.6	1973.4	1749.9	1576.3	1508.4	1486.5	1472.5
15°	3248.3	3226.4	2915.1	2450.2	1953.4	1630.2	1428.6	1308.9	1302.9	1289.0	1302.9
17.5°	3324.2	3262.3	2839.3	2148.9	1648.1	1342.8	1211.1	1219.1	1235.1	1249.1	1251.1
20°	3447.9	3320.2	2665.7	1885.6	1364.8	1151.3	1149.3	1185.2	1225.1	1241.1	1257.0
22.5°	3541.7	3344.1	2480.2	1604.2	1133.3	1073.5	1107.4	1161.3	1191.2	1207.2	1231.1
25°	3575.6	3278.3	2232.7	1322.9	1021.6	1037.6	1089.4	1125.3	1163.3	1181.2	1171.2
27.5°	3609.5	3244.4	1937.4	1089.4	961.7	1013.6	1057.5	1093.4	1105.4	1129.3	1145.3
30°	3691.3	3126.6	1672.1	941.8	931.8	997.7	1029.6	1041.5	1073.5	1087.4	1087.4
32.5°	3757.2	3080.7	1390.7	871.9	927.8	1005.6	1009.6	1009.6	1013.6	1003.6	999.6
35°	3892.8	2923.1	1139.3	830.0	925.8	1007.6	1017.6	983.7	891.9	856.0	846.0
37.5°	4060.4	2821.4	953.8	820.1	939.8	1031.6	1047.5	919.8	800.1	742.3	732.3
40°	4264.0	2749.5	832.0	816.1	971.7	1087.4	1039.6	870.0	714.3	630.5	626.5
42.5°	4501.4	2683.7	750.2	814.1	1011.6	1145.3	1031.6	828.0	626.5	570.7	578.6
45°	4691.0	2647.8	694.4	800.1	1025.6	1179.2	1037.6	754.2	590.6	554.7	558.7
47.5°	4838.6	2571.9	648.5	776.2	1023.6	1191.2	983.7	724.3	572.7	582.6	592.6
50°	4842.6	2470.2	590.6	724.3	993.7	1169.2	921.8	696.4	568.7	610.6	630.5
52.5°	4788.7	2326.5	528.8	650.5	923.8	1093.4	866.0	684.4	550.7	546.7	570.7
55°	4597.2	2057.2	425.0	526.8	780.2	901.9	816.1	662.4	496.8	450.9	454.9
57.5°	3715.3	1474.5	313.3	377.1	552.7	660.4	736.3	652.5	446.9	383.1	385.1
60°	2300.6	836.0	229.5	257.4	341.2	401.1	596.6	606.6	399.1	323.2	319.2
62.5°	1181.2	413.0	177.6	181.6	209.5	235.4	409.0	508.8	361.1	307.3	307.3
65°	395.1	203.5	155.6	139.7	139.7	145.7	247.4	353.2	305.3	257.4	257.4
67.5°	169.6	151.6	135.7	121.7	111.7	105.8	139.7	205.5	227.5	195.5	187.6
70°	131.7	127.7	117.7	101.8	87.8	79.8	81.8	105.8	129.7	125.7	121.7
72.5°	97.8	97.8	93.8	79.8	67.8	57.9	53.9	55.9	61.9	63.8	65.8
75°	67.8	69.8	69.8	61.9	49.9	41.9	35.9	29.9	23.9	20.0	18.0
77.5°	45.9	47.9	51.9	45.9	37.9	27.9	21.9	16.0	10.0	4.0	4.0
80°	39.9	45.9	49.9	45.9	39.9	29.9	21.9	12.0	6.0	0.0	0.0
82.5°	41.9	45.9	51.9	43.9	37.9	27.9	21.9	14.0	6.0	2.0	0.0
85°	10.0	10.0	12.0	14.0	18.0	20.0	16.0	10.0	6.0	2.0	0.0
87.5°	4.0	4.0	4.0	4.0	4.0	2.0	2.0	2.0	2.0	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)