

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: P458855

Luminaire Tested: **GALN-SA3D-735-U-T3R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458855
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-9)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3D-735-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16843 lumens
Efficiency: N/A
Efficacy: 91.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

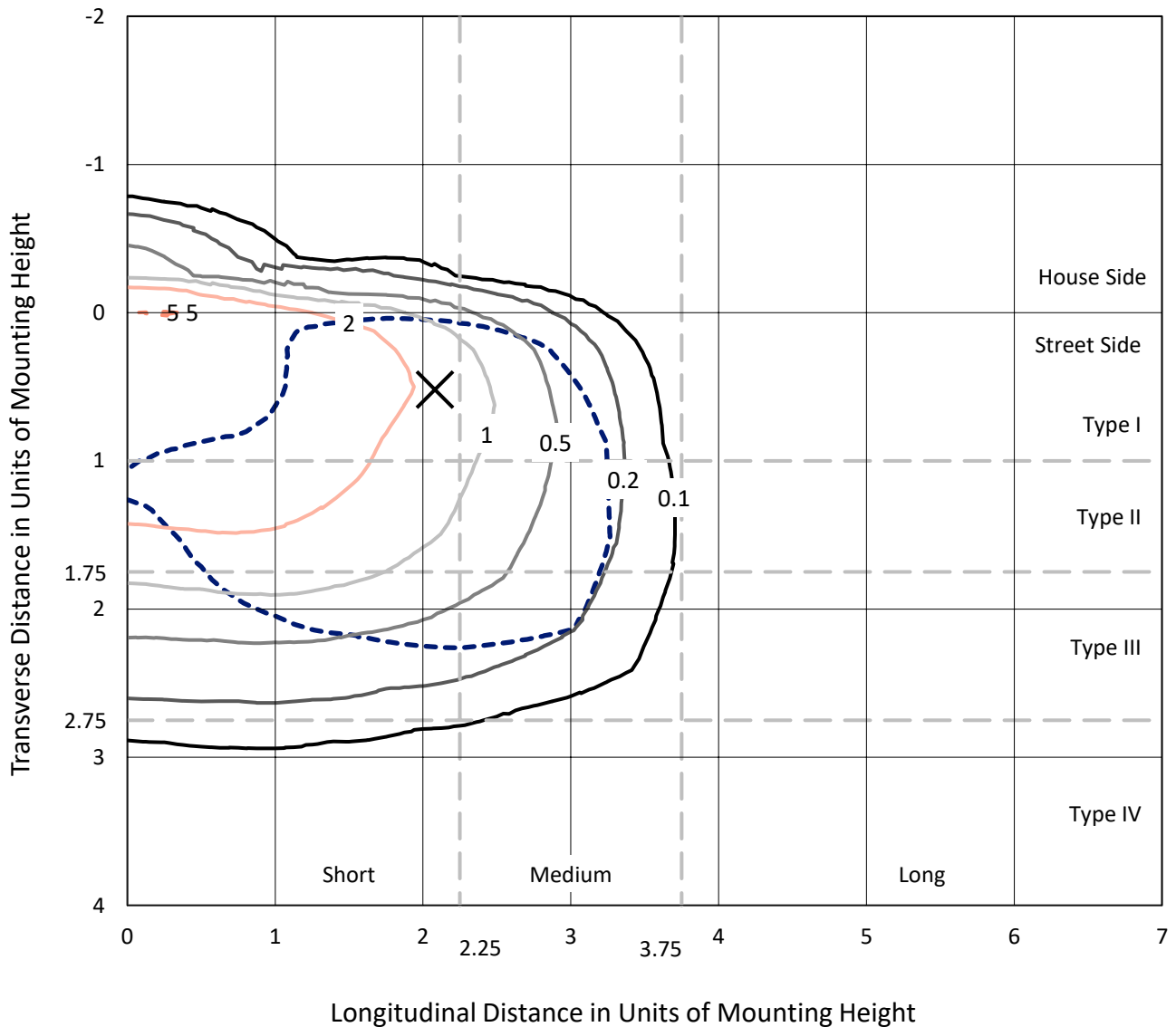
Input Watts (W): 184
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

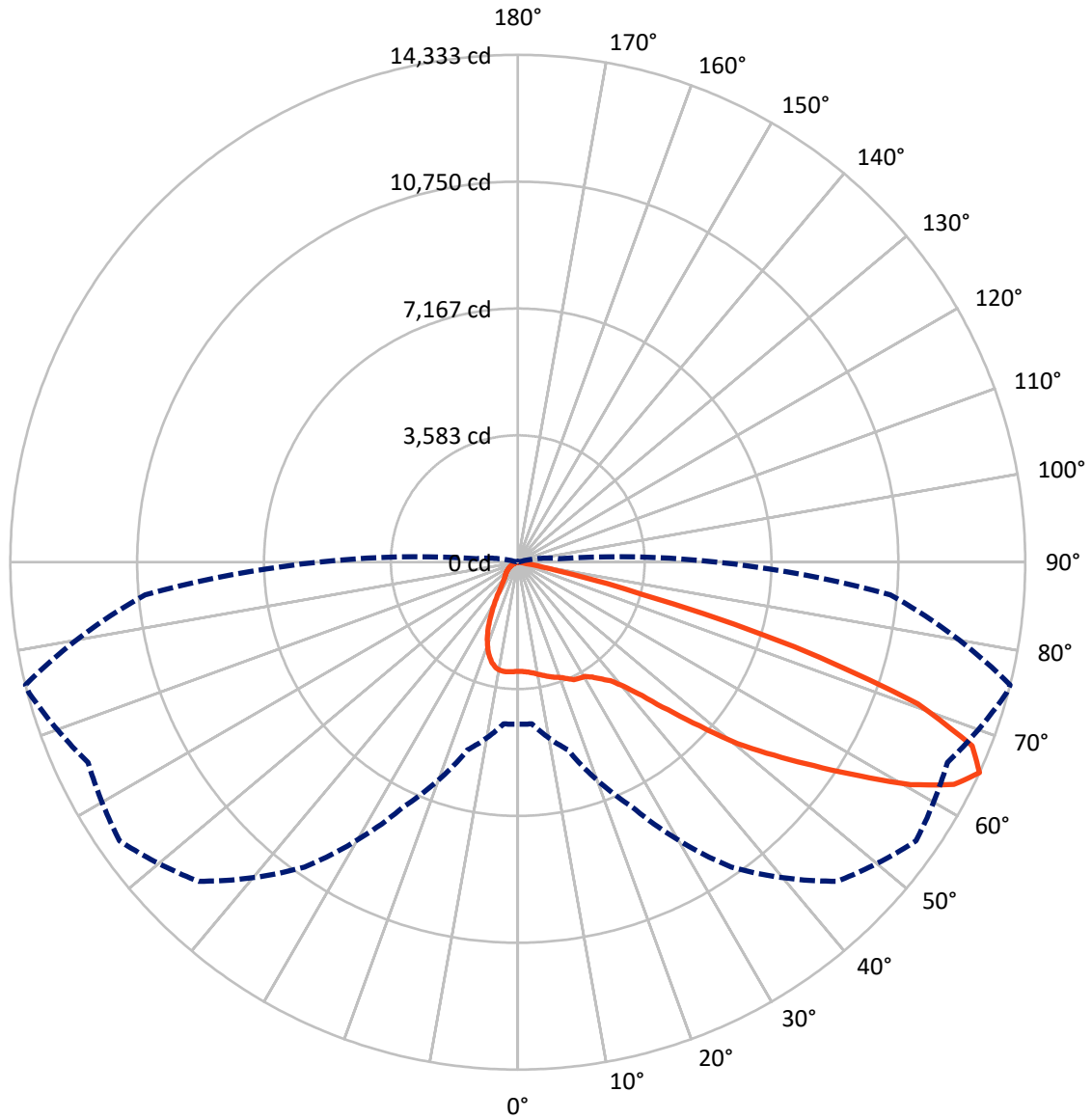
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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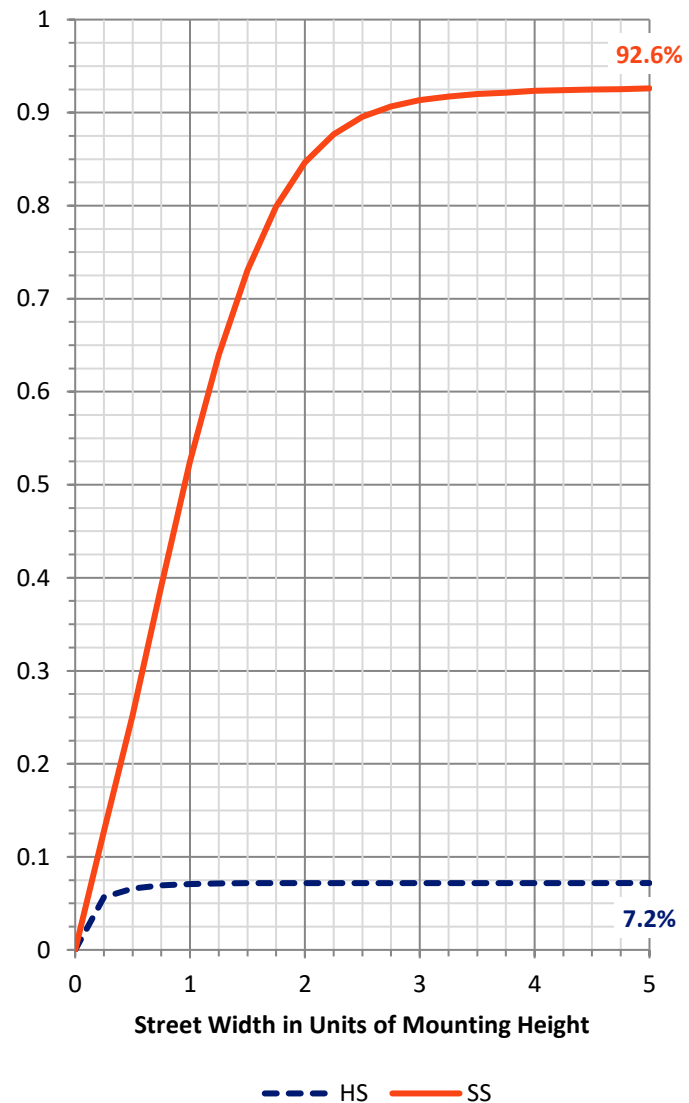
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1216.4	0.0	1216.4
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	15626.6	0.0	15626.6
	% Fixture	92.8	0.0	92.8
Total	Lumens	16843.0	0.0	16843.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	253.8	1.5
10°-20°	565.1	3.4
20°-30°	910.7	5.4
30°-40°	1583.4	9.4
40°-50°	2616.5	15.5
50°-60°	4041.9	24.0
60°-70°	4935.8	29.3
70°-80°	1873.3	11.1
80°-90°	62.5	0.4
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°	16843.0	100.0
0°-180°	16843.0	100.0



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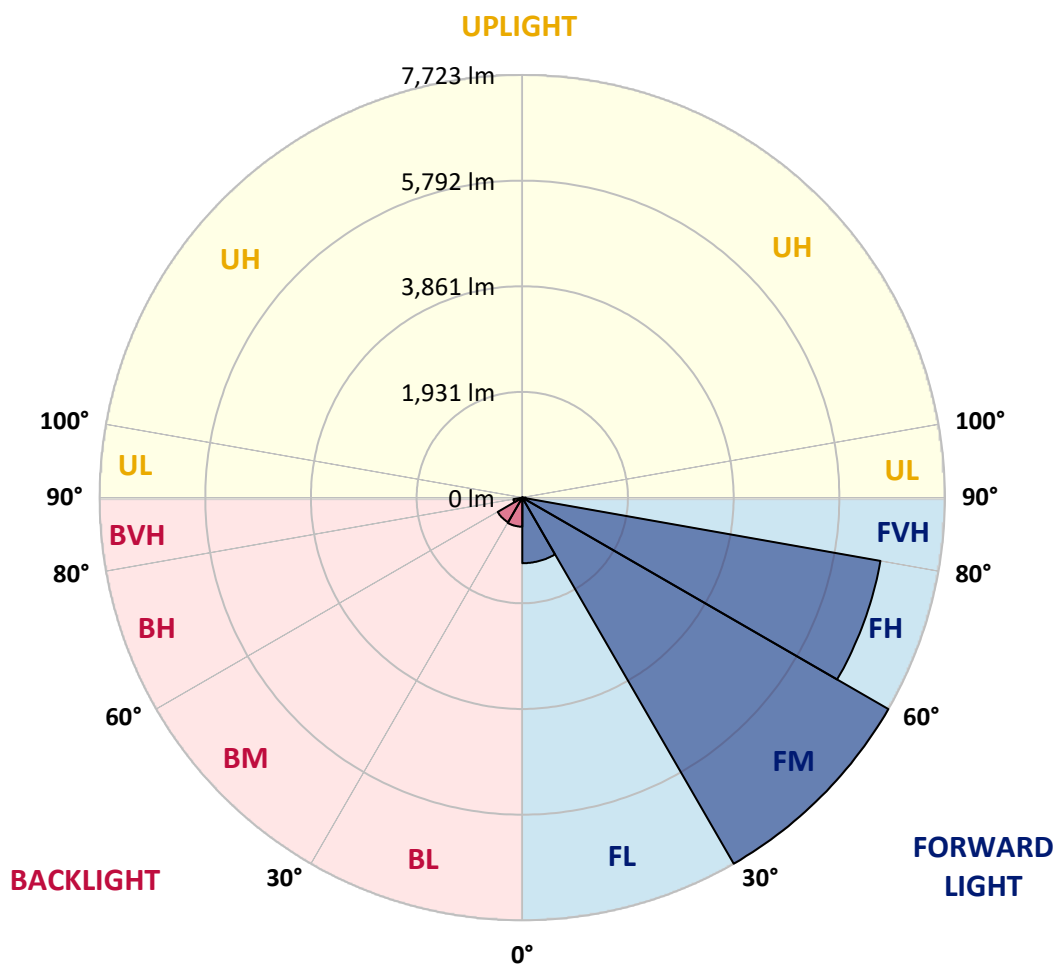
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1198.2	7.1			
FM (30°-60°)	7722.8	45.9			
FH (60°-80°)	6644.0	39.4			G3/7500
FVH (80°-90°)	61.7	0.4			G1/100
BL (0°-30°)	531.4	3.2	B2/1000		
BM (30°-60°)	519.1	3.1	B1/1000		
BH (60°-80°)	165.0	1.0	B1/500		G1/500
BVH (80°-90°)	0.9	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3081.1	3081.1	3081.1	3081.1	3081.1	3081.1	3081.1	3081.1	3081.1	3081.1	3081.1
2.5°	2944.4	2945.6	2952.7	2970.5	2997.9	3020.5	3039.5	3070.4	3091.8	3094.2	3101.3
5°	2741.0	2726.8	2741.0	2787.4	2829.0	2892.0	2969.3	3046.6	3115.6	3120.4	3153.7
7.5°	2512.7	2524.6	2547.2	2594.8	2673.2	2769.6	2881.3	3019.3	3150.1	3162.0	3227.4
10°	2280.8	2307.0	2343.8	2416.4	2525.8	2650.6	2802.9	3000.3	3204.8	3221.4	3334.4
12.5°	2066.8	2078.7	2123.8	2221.4	2356.9	2532.9	2743.4	2989.6	3265.4	3285.7	3448.6
15°	1902.7	1918.1	1957.4	2045.4	2196.4	2422.3	2694.6	2986.0	3324.9	3353.4	3562.7
17.5°	1871.7	1881.3	1897.9	1957.4	2089.4	2334.3	2650.6	2984.8	3382.0	3416.5	3668.6
20°	1999.0	1990.7	1974.0	1968.1	2040.6	2266.5	2618.5	2994.3	3436.7	3475.9	3780.4
22.5°	2317.7	2328.4	2230.9	2115.5	2091.7	2255.8	2613.8	3039.5	3523.5	3569.9	3905.2
25°	2994.3	2912.3	2760.0	2484.2	2276.1	2321.2	2667.3	3146.5	3624.6	3675.7	4018.2
27.5°	3742.3	3717.3	3480.7	3026.4	2638.8	2459.2	2762.4	3228.6	3657.9	3710.2	4082.4
30°	4477.2	4506.9	4235.8	3734.0	3165.6	2714.9	2851.6	3259.5	3687.6	3742.3	4164.5
32.5°	5158.6	5194.3	4956.4	4459.4	3786.3	3157.2	3005.0	3379.6	3812.5	3868.3	4301.2
35°	5694.9	5699.7	5520.1	5124.1	4464.1	3694.7	3336.8	3590.1	3981.3	4046.7	4446.3
37.5°	6187.2	6180.1	5969.6	5628.3	5029.0	4228.7	3754.2	3832.7	4174.0	4241.7	4655.6
40°	6552.3	6557.0	6489.3	6168.2	5555.8	4722.2	4084.8	4059.8	4497.4	4603.3	4960.0
42.5°	6796.1	6840.1	6873.4	6710.4	6218.1	5329.8	4592.5	4546.2	5058.7	5146.7	5390.5
45°	6993.5	7072.0	7238.4	7230.1	6854.3	6075.4	5289.4	5194.3	5854.3	5948.2	5938.7
47.5°	7137.4	7217.0	7492.9	7659.4	7452.5	6798.4	6165.8	6083.8	6804.4	6906.7	6544.0
50°	7211.1	7306.2	7658.2	7980.5	7919.8	7495.3	7164.7	7169.5	7951.9	8050.6	7245.6
52.5°	7038.7	7162.3	7746.2	8326.5	8444.2	8162.4	8100.6	8257.6	8973.4	9057.9	7879.4
55°	6488.1	6643.9	7626.1	8621.4	9051.9	8949.6	9163.7	9402.7	10090.1	10144.8	8529.9
57.5°	6139.7	6304.9	7271.7	8872.3	9782.1	9939.0	10277.9	10452.7	11242.4	11381.5	9276.7
60°	5845.9	5975.5	6980.4	8925.9	10524.1	11149.6	11479.0	11659.7	12664.6	12755.0	10098.4
62.5°	5357.2	5505.8	6488.1	8552.5	10897.5	12118.8	12801.3	12720.5	13764.6	13827.6	10602.6
65°	4571.1	4584.2	5489.2	7614.2	10512.2	12747.8	13730.1	13391.2	14290.2	14333.0	10563.3
67.5°	3411.7	3537.8	4222.7	5985.1	8879.5	12210.3	14030.9	13409.0	13958.4	13839.5	9725.0
70°	2197.6	2293.9	2862.3	4150.2	6402.5	10189.9	13033.2	12489.8	12250.8	11986.8	7960.3
72.5°	1014.4	1138.0	1700.5	2371.2	3797.0	7258.7	10580.0	10147.1	8817.6	8166.0	5059.9
75°	442.4	473.3	839.5	1251.0	1780.2	3838.6	6975.6	6299.0	3982.5	3637.7	2025.1
77.5°	269.9	290.2	440.0	670.7	699.2	1462.7	3757.8	2748.2	1230.8	1085.7	549.4
80°	183.1	205.7	319.9	350.8	239.0	407.9	1410.3	733.7	248.5	237.8	117.7
82.5°	89.2	113.0	236.6	196.2	103.5	130.8	410.3	157.0	72.5	67.8	41.6
85°	13.1	22.6	133.2	128.4	46.4	30.9	72.5	39.2	25.0	23.8	19.0
87.5°	0.0	0.0	45.2	20.2	4.8	4.8	8.3	8.3	9.5	8.3	9.5
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°	3081.1	3081.1	3081.1	3081.1	3081.1	3081.1	3081.1	3081.1	3081.1	3081.1	3081.1
2.5°	3104.9	3110.9	3088.3	3056.1	3021.7	2987.2	2938.4	2894.4	2868.3	2883.7	2845.7
5°	3160.8	3156.0	3096.6	2999.1	2869.5	2713.7	2559.1	2427.1	2384.3	2320.1	2312.9
7.5°	3238.1	3225.0	3099.0	2875.4	2582.9	2290.3	2004.9	1815.9	1707.6	1616.1	1618.5
10°	3346.3	3308.3	3071.6	2657.8	2176.2	1735.0	1371.1	1121.4	1013.2	978.7	951.3
12.5°	3458.1	3384.4	2995.5	2364.1	1694.6	1185.6	833.6	681.4	614.8	593.4	591.0
15°	3558.0	3441.4	2862.3	2010.9	1232.0	757.5	568.4	518.5	510.2	511.3	510.2
17.5°	3656.7	3486.6	2678.0	1636.3	837.2	543.4	488.7	476.9	480.4	485.2	484.0
20°	3738.7	3496.1	2442.5	1248.6	592.2	476.9	459.0	456.6	460.2	463.8	463.8
22.5°	3827.9	3503.3	2163.1	864.5	484.0	443.6	434.0	434.0	438.8	443.6	444.7
25°	3894.5	3464.0	1828.9	620.7	426.9	411.5	406.7	407.9	412.6	415.0	413.8
27.5°	3905.2	3353.4	1474.6	475.7	387.7	372.2	367.5	372.2	366.3	369.8	367.5
30°	3914.7	3213.1	1115.4	400.7	352.0	328.2	321.1	313.9	309.2	303.2	302.0
32.5°	3944.5	3047.8	814.6	360.3	318.7	292.5	275.9	255.7	240.2	235.5	234.3
35°	3957.5	2849.2	598.1	328.2	289.0	260.4	230.7	202.2	179.6	171.2	177.2
37.5°	4007.5	2656.6	463.8	304.4	262.8	227.1	189.1	153.4	132.0	127.2	129.6
40°	4109.7	2447.3	388.9	284.2	240.2	196.2	149.8	115.3	101.1	96.3	95.1
42.5°	4273.9	2239.2	346.0	265.2	217.6	165.3	117.7	90.4	78.5	74.9	74.9
45°	4473.6	2039.4	316.3	245.0	193.8	133.2	92.8	72.5	65.4	63.0	63.0
47.5°	4736.4	1864.6	291.3	224.8	167.7	105.8	74.9	63.0	58.3	59.5	60.6
50°	5002.8	1735.0	264.0	202.2	137.9	86.8	64.2	55.9	54.7	55.9	55.9
52.5°	5203.8	1658.9	227.1	171.2	108.2	72.5	57.1	52.3	51.1	48.8	48.8
55°	5474.9	1642.2	180.8	139.1	85.6	60.6	51.1	47.6	44.0	41.6	40.4
57.5°	5823.3	1661.3	139.1	108.2	66.6	49.9	45.2	39.2	34.5	29.7	29.7
60°	6039.8	1618.5	108.2	83.2	48.8	40.4	34.5	28.5	22.6	19.0	17.8
62.5°	5970.8	1437.7	85.6	61.8	34.5	29.7	22.6	19.0	13.1	9.5	8.3
65°	5615.2	1160.6	69.0	42.8	25.0	17.8	11.9	11.9	5.9	1.2	0.0
67.5°	4914.8	859.8	54.7	28.5	14.3	8.3	5.9	3.6	0.0	0.0	0.0
70°	4000.3	620.7	42.8	17.8	8.3	5.9	2.4	1.2	0.0	0.0	0.0
72.5°	2540.1	355.6	33.3	10.7	5.9	2.4	0.0	0.0	0.0	0.0	0.0
75°	982.2	139.1	22.6	7.1	2.4	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	278.3	65.4	13.1	3.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	72.5	28.5	7.1	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	34.5	11.9	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	20.2	4.8	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	9.5	1.2	0.0	0.0	0.0	0.0	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)