

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: P454302

Luminaire Tested: **GALN-SA5B-827-U-T3R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454302
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-SA5B-827-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 2700K, 800mA 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: 16401 lumens
Efficiency: N/A
Efficacy: 80.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

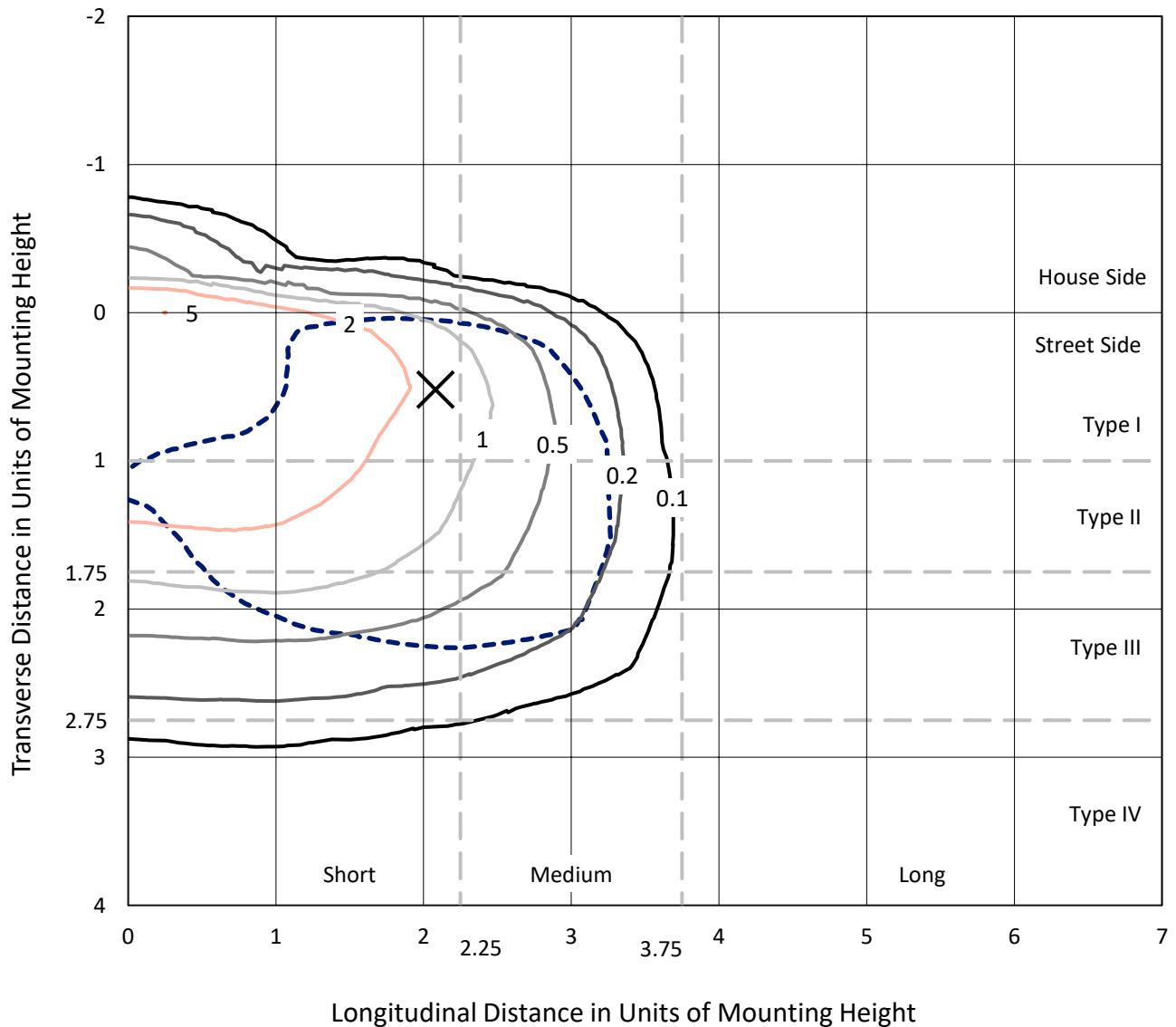
Input Watts (W): 204
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

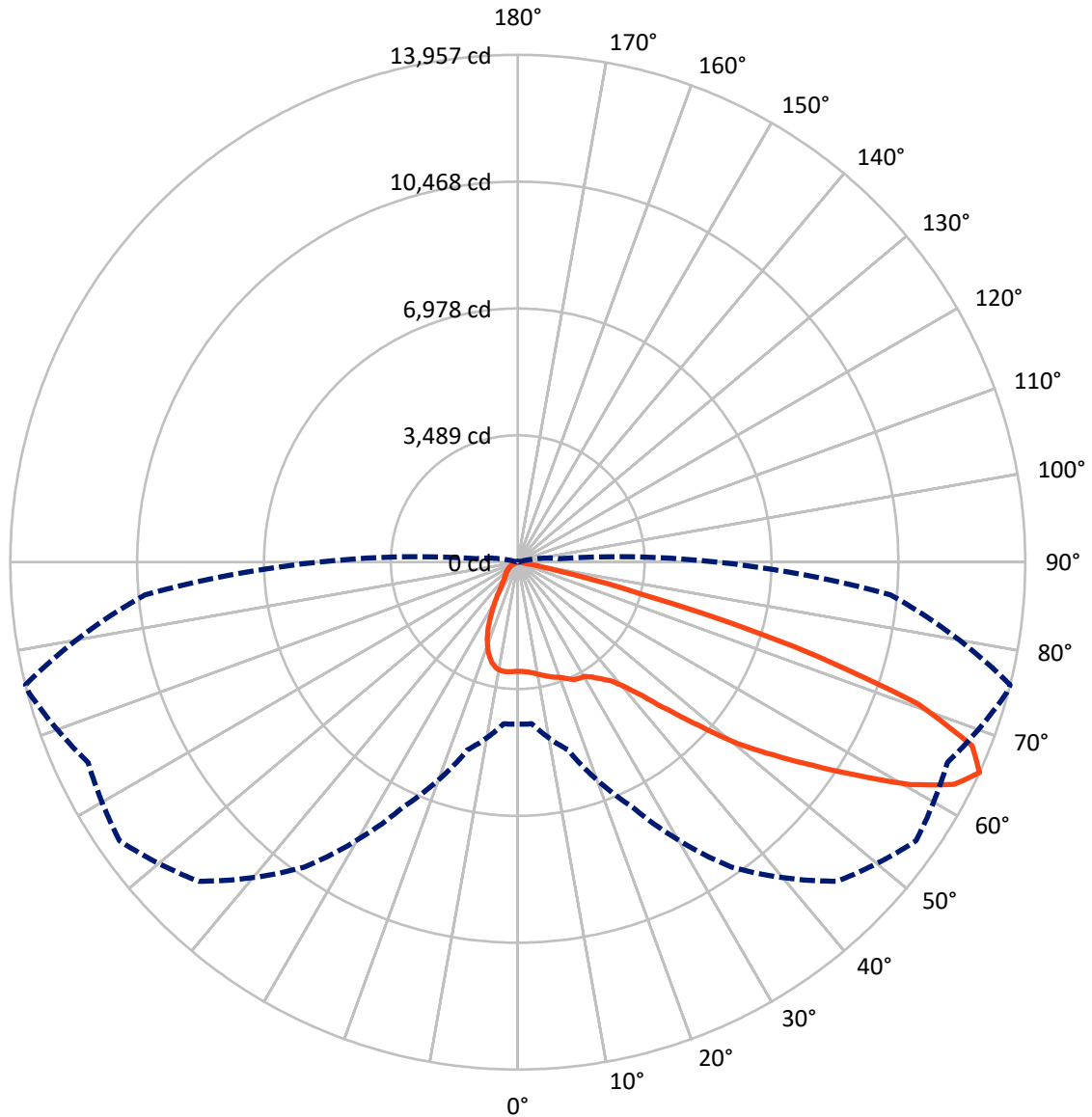
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5 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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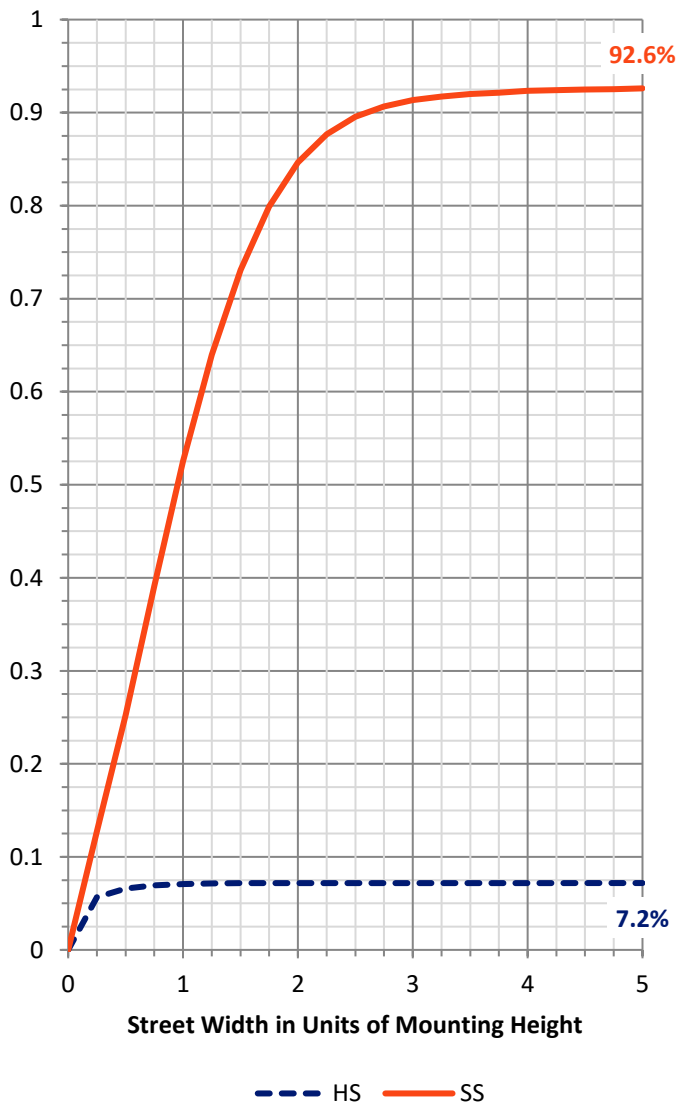
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1184.5	0.0	1184.5
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	15216.5	0.0	15216.5
	% Fixture	92.8	0.0	92.8
Total	Lumens	16401.0	0.0	16401.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	247.1	1.5
10°-20°	550.3	3.4
20°-30°	886.8	5.4
30°-40°	1541.9	9.4
40°-50°	2547.8	15.5
50°-60°	3935.9	24.0
60°-70°	4806.3	29.3
70°-80°	1824.1	11.1
80°-90°	60.9	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°	16401.0	100.0
0°-180°	16401.0	100.0

Coefficient of Utilization



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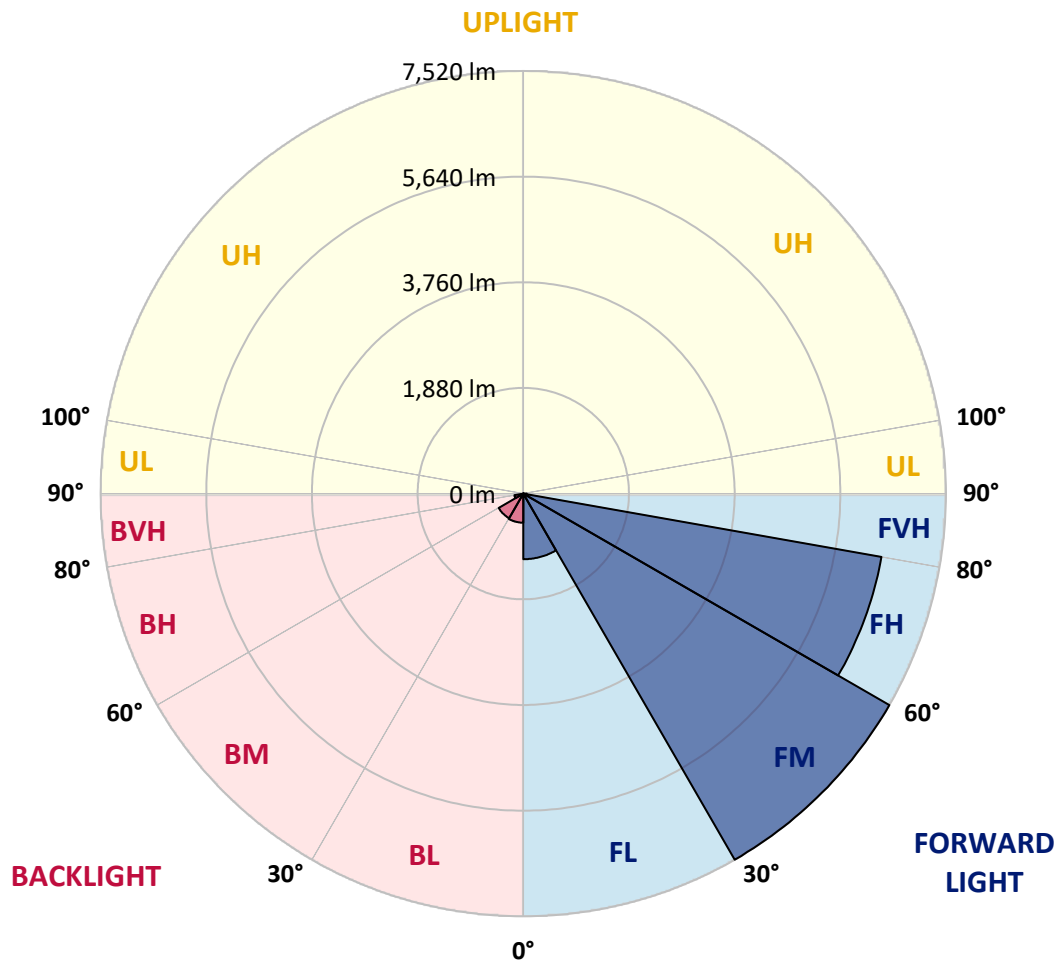
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1166.7	7.1			
FM (30°-60°)	7520.1	45.9			
FH (60°-80°)	6469.6	39.4			G3/7500
FVH (80°-90°)	60.0	0.4			G1/100
BL (0°-30°)	517.5	3.2	B2/1000		
BM (30°-60°)	505.5	3.1	B1/1000		
BH (60°-80°)	160.7	1.0	B1/500		G1/500
BVH (80°-90°)	0.8	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°	3000.3	3000.3	3000.3	3000.3	3000.3	3000.3	3000.3	3000.3	3000.3	3000.3	3000.3
2.5°	2867.1	2868.3	2875.2	2892.6	2919.2	2941.2	2959.7	2989.8	3010.7	3013.0	3020.0
5°	2669.1	2655.2	2669.1	2714.3	2754.8	2816.2	2891.4	2966.7	3033.8	3038.5	3070.9
7.5°	2446.8	2458.3	2480.3	2526.7	2603.1	2696.9	2805.7	2940.1	3067.4	3079.0	3142.7
10°	2221.0	2246.4	2282.3	2353.0	2459.5	2581.1	2729.3	2921.5	3120.7	3136.9	3246.9
12.5°	2012.5	2024.1	2068.1	2163.1	2295.1	2466.4	2671.4	2911.1	3179.7	3199.4	3358.1
15°	1852.7	1867.8	1906.0	1991.7	2138.7	2358.8	2623.9	2907.6	3237.6	3265.4	3469.2
17.5°	1822.6	1831.9	1848.1	1906.0	2034.5	2273.1	2581.1	2906.5	3293.2	3326.8	3572.3
20°	1946.5	1938.4	1922.2	1916.4	1987.1	2207.1	2549.8	2915.7	3346.5	3384.7	3681.1
22.5°	2256.9	2267.3	2172.3	2060.0	2036.8	2196.6	2545.2	2959.7	3431.0	3476.2	3802.7
25°	2915.7	2835.8	2687.6	2419.0	2216.3	2260.3	2597.3	3064.0	3529.5	3579.2	3912.7
27.5°	3644.1	3619.8	3389.3	2947.0	2569.5	2394.7	2689.9	3143.9	3561.9	3612.8	3975.3
30°	4359.7	4388.7	4124.6	3636.0	3082.5	2643.6	2776.8	3174.0	3590.8	3644.1	4055.2
32.5°	5023.2	5058.0	4826.4	4342.3	3686.9	3074.4	2926.2	3290.9	3712.4	3766.8	4188.3
35°	5545.5	5550.1	5375.2	4989.6	4347.0	3597.8	3249.2	3495.9	3876.8	3940.5	4329.6
37.5°	6024.8	6017.9	5812.9	5480.6	4897.0	4117.7	3655.7	3732.1	4064.4	4130.4	4533.4
40°	6380.3	6385.0	6319.0	6006.3	5410.0	4598.2	3977.6	3953.3	4379.4	4482.5	4829.8
42.5°	6617.7	6660.6	6693.0	6534.4	6055.0	5190.0	4472.0	4426.9	4925.9	5011.6	5249.0
45°	6809.9	6886.4	7048.5	7040.4	6674.5	5916.0	5150.6	5058.0	5700.6	5792.1	5782.8
47.5°	6950.1	7027.6	7296.3	7458.4	7256.9	6620.0	6004.0	5924.1	6625.8	6725.4	6372.2
50°	7021.9	7114.5	7457.2	7771.0	7712.0	7298.6	6976.7	6981.3	7743.3	7839.4	7055.4
52.5°	6853.9	6974.4	7542.9	8108.0	8222.7	7948.2	7888.0	8040.9	8737.9	8820.2	7672.6
55°	6317.8	6469.5	7426.0	8395.2	8814.4	8714.8	8923.2	9156.0	9825.3	9878.5	8306.0
57.5°	5978.5	6139.5	7080.9	8639.5	9525.4	9678.2	10008.2	10178.4	10947.3	11082.8	9033.2
60°	5692.5	5818.7	6797.2	8691.6	10247.9	10857.0	11177.8	11353.8	12332.2	12420.2	9833.4
62.5°	5216.6	5361.3	6317.8	8328.0	10611.5	11800.7	12465.4	12386.7	13403.4	13464.7	10324.3
65°	4451.2	4463.9	5345.1	7414.4	10236.3	12413.3	13369.8	13039.8	13915.2	13956.9	10286.1
67.5°	3322.2	3444.9	4111.9	5828.0	8646.5	11889.9	13662.7	13057.1	13592.1	13476.3	9469.8
70°	2139.9	2233.7	2787.2	4041.3	6234.4	9922.5	12691.2	12162.0	11929.3	11672.2	7751.4
72.5°	987.7	1108.2	1655.9	2309.0	3697.4	7068.2	10302.3	9880.8	8586.3	7951.7	4927.1
75°	430.8	460.9	817.5	1218.2	1733.5	3737.9	6792.6	6133.7	3878.0	3542.2	1972.0
77.5°	262.9	282.5	428.4	653.1	680.9	1424.3	3659.1	2676.0	1198.5	1057.2	535.0
80°	178.3	200.3	311.5	341.6	232.7	397.2	1373.3	714.5	242.0	231.6	114.6
82.5°	86.8	110.0	230.4	191.1	100.7	127.4	399.5	152.9	70.6	66.0	40.5
85°	12.7	22.0	129.7	125.1	45.2	30.1	70.6	38.2	24.3	23.2	18.5
87.5°	0.0	0.0	44.0	19.7	4.6	4.6	8.1	8.1	9.3	8.1	9.3
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°	3000.3	3000.3	3000.3	3000.3	3000.3	3000.3	3000.3	3000.3	3000.3	3000.3	3000.3
2.5°	3023.4	3029.2	3007.2	2975.9	2942.4	2908.8	2861.3	2818.5	2793.0	2808.0	2771.0
5°	3077.8	3073.2	3015.3	2920.4	2794.2	2642.5	2491.9	2363.4	2321.7	2259.2	2252.2
7.5°	3153.1	3140.4	3017.6	2799.9	2515.1	2230.2	1952.3	1768.2	1662.8	1573.7	1576.0
10°	3258.5	3221.4	2991.0	2588.0	2119.1	1689.5	1335.1	1092.0	986.6	953.0	926.4
12.5°	3367.3	3295.5	2916.9	2302.0	1650.1	1154.5	811.7	663.5	598.7	577.8	575.5
15°	3464.6	3351.1	2787.2	1958.1	1199.6	737.6	553.5	504.9	496.8	497.9	496.8
17.5°	3560.7	3395.1	2607.7	1593.3	815.2	529.2	475.9	464.3	467.8	472.4	471.3
20°	3640.6	3404.4	2378.4	1215.9	576.7	464.3	447.0	444.7	448.1	451.6	451.6
22.5°	3727.5	3411.3	2106.3	841.8	471.3	431.9	422.7	422.7	427.3	431.9	433.1
25°	3792.3	3373.1	1780.9	604.5	415.7	400.7	396.0	397.2	401.8	404.1	403.0
27.5°	3802.7	3265.4	1435.9	463.2	377.5	362.4	357.8	362.4	356.7	360.1	357.8
30°	3812.0	3128.8	1086.2	390.2	342.8	319.6	312.6	305.7	301.1	295.3	294.1
32.5°	3840.9	2967.8	793.2	350.9	310.3	284.9	268.6	249.0	233.9	229.3	228.1
35°	3853.7	2774.5	582.5	319.6	281.4	253.6	224.6	196.9	174.9	166.7	172.5
37.5°	3902.3	2586.9	451.6	296.4	255.9	221.2	184.1	149.4	128.5	123.9	126.2
40°	4001.9	2383.1	378.7	276.8	233.9	191.1	145.9	112.3	98.4	93.8	92.6
42.5°	4161.7	2180.4	337.0	258.2	211.9	161.0	114.6	88.0	76.4	73.0	73.0
45°	4356.2	1985.9	308.0	238.5	188.7	129.7	90.3	70.6	63.7	61.4	61.4
47.5°	4612.1	1815.7	283.7	218.9	163.3	103.1	73.0	61.4	56.7	57.9	59.1
50°	4871.5	1689.5	257.1	196.9	134.3	84.5	62.5	54.4	53.3	54.4	54.4
52.5°	5067.2	1615.3	221.2	166.7	105.4	70.6	55.6	51.0	49.8	47.5	47.5
55°	5331.2	1599.1	176.0	135.5	83.4	59.1	49.8	46.3	42.8	40.5	39.4
57.5°	5670.5	1617.7	135.5	105.4	64.8	48.6	44.0	38.2	33.6	28.9	28.9
60°	5881.3	1576.0	105.4	81.1	47.5	39.4	33.6	27.8	22.0	18.5	17.4
62.5°	5814.1	1400.0	83.4	60.2	33.6	28.9	22.0	18.5	12.7	9.3	8.1
65°	5467.9	1130.2	67.2	41.7	24.3	17.4	11.6	11.6	5.8	1.2	0.0
67.5°	4785.8	837.2	53.3	27.8	13.9	8.1	5.8	3.5	0.0	0.0	0.0
70°	3895.4	604.5	41.7	17.4	8.1	5.8	2.3	1.2	0.0	0.0	0.0
72.5°	2473.4	346.2	32.4	10.4	5.8	2.3	0.0	0.0	0.0	0.0	0.0
75°	956.5	135.5	22.0	6.9	2.3	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	271.0	63.7	12.7	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	70.6	27.8	6.9	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	33.6	11.6	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	19.7	4.6	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	9.3	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)