

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: P459029

Luminaire Tested: **GALN-SA5B-735-U-T3R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459029
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-735-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3500K, 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: 20783 lumens
Efficiency: N/A
Efficacy: 101.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

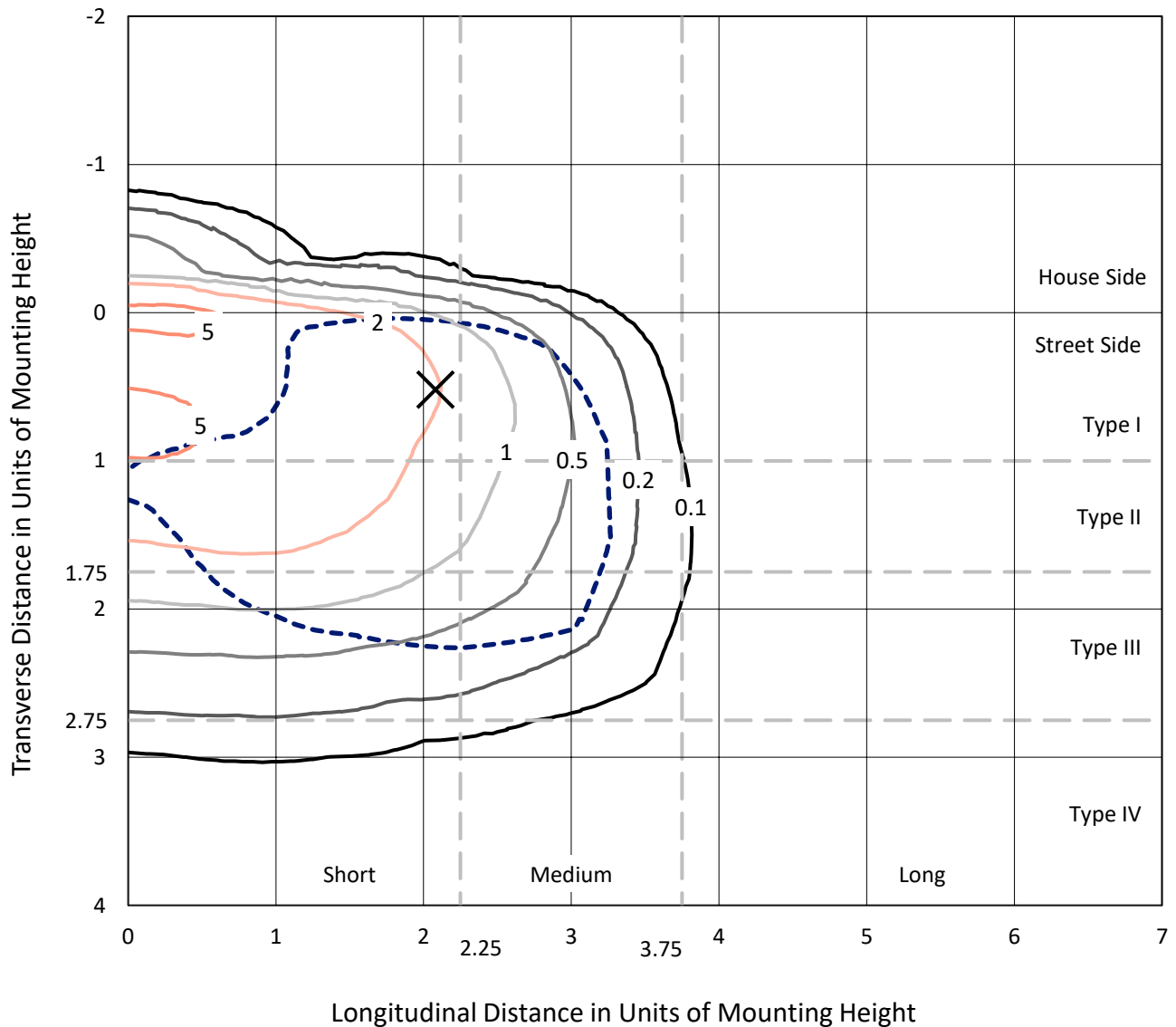
Input Watts (W): 204
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

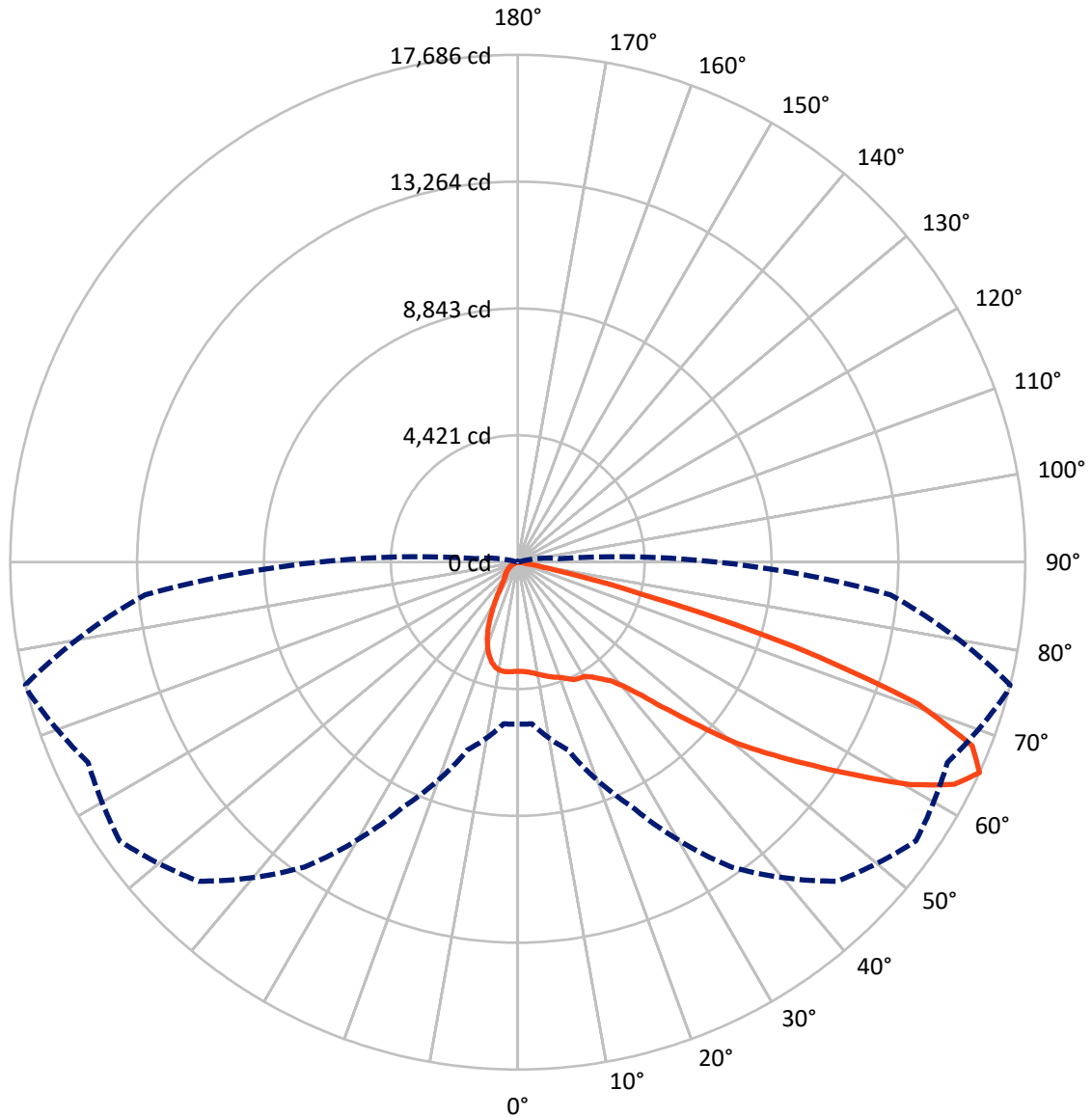
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.3 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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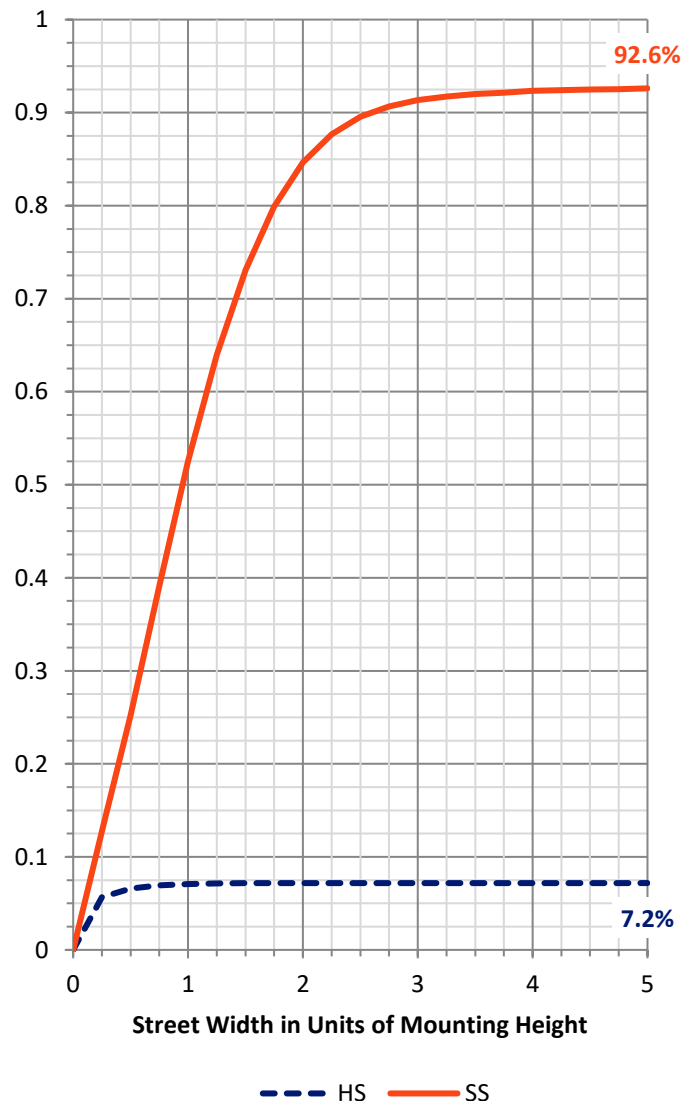
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1500.9	0.0	1500.9
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	19282.0	0.0	19282.0
	% Fixture	92.8	0.0	92.8
Total	Lumens	20783.0	0.0	20783.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	313.2	1.5
10°-20°	697.3	3.4
20°-30°	1123.7	5.4
30°-40°	1953.8	9.4
40°-50°	3228.6	15.5
50°-60°	4987.4	24.0
60°-70°	6090.4	29.3
70°-80°	2311.5	11.1
80°-90°	77.1	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°	20783.0	100.0
0°-180°	20783.0	100.0



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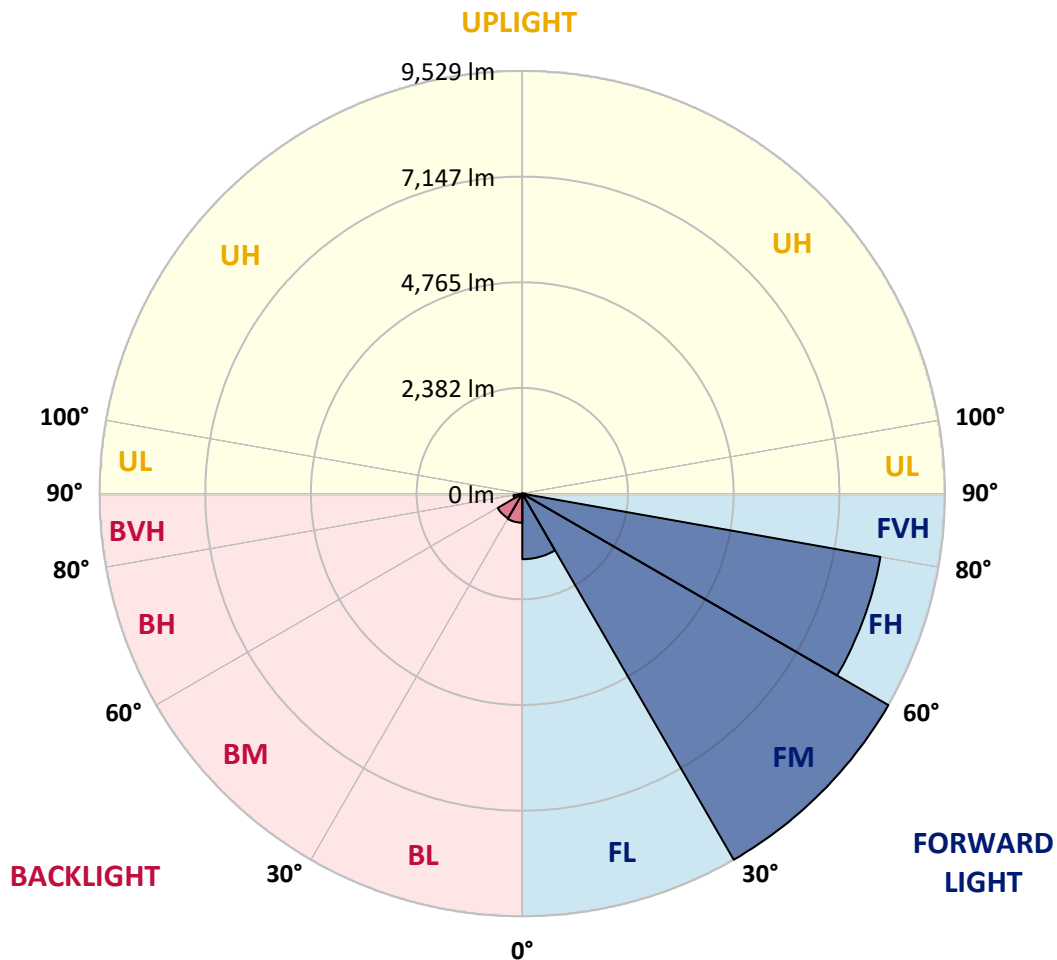
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1478.5	7.1			
FM (30°-60°)	9529.3	45.9			
FH (60°-80°)	8198.2	39.4			G4/12000
FVH (80°-90°)	76.1	0.4			G1/100
BL (0°-30°)	655.7	3.2	B2/1000		
BM (30°-60°)	640.5	3.1	B1/1000		
BH (60°-80°)	203.7	1.0	B1/500		G1/500
BVH (80°-90°)	1.1	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-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3801.9	3801.9	3801.9	3801.9	3801.9	3801.9	3801.9	3801.9	3801.9	3801.9	3801.9
2.5°	3633.1	3634.6	3643.4	3665.4	3699.2	3727.0	3750.5	3788.7	3815.1	3818.0	3826.8
5°	3382.2	3364.6	3382.2	3439.4	3490.8	3568.6	3663.9	3759.3	3844.4	3850.3	3891.4
7.5°	3100.5	3115.2	3143.0	3201.7	3298.6	3417.4	3555.4	3725.6	3887.0	3901.7	3982.4
10°	2814.4	2846.6	2892.1	2981.6	3116.6	3270.7	3458.5	3702.1	3954.5	3975.0	4114.4
12.5°	2550.2	2564.9	2620.7	2741.0	2908.3	3125.4	3385.1	3688.9	4029.3	4054.3	4255.3
15°	2347.7	2366.8	2415.2	2523.8	2710.2	2989.0	3325.0	3684.5	4102.7	4137.9	4396.1
17.5°	2309.6	2321.3	2341.9	2415.2	2578.1	2880.4	3270.7	3683.0	4173.1	4215.7	4526.7
20°	2466.6	2456.3	2435.8	2428.4	2518.0	2796.7	3231.1	3694.8	4240.6	4289.0	4664.7
22.5°	2859.8	2873.0	2752.7	2610.4	2581.0	2783.5	3225.2	3750.5	4347.7	4405.0	4818.7
25°	3694.8	3593.5	3405.7	3065.3	2808.5	2864.2	3291.2	3882.6	4472.4	4535.5	4958.1
27.5°	4617.7	4586.9	4294.9	3734.4	3256.0	3034.5	3408.6	3983.8	4513.5	4578.1	5037.4
30°	5524.5	5561.2	5226.7	4607.4	3906.1	3349.9	3518.7	4022.0	4550.2	4617.7	5138.6
32.5°	6365.3	6409.3	6115.9	5502.5	4672.0	3895.8	3708.0	4170.2	4704.3	4773.3	5307.4
35°	7027.1	7033.0	6811.4	6322.8	5508.4	4559.0	4117.4	4429.9	4912.6	4993.4	5486.4
37.5°	7634.6	7625.8	7366.0	6944.9	6205.4	5217.9	4632.4	4729.2	5150.4	5234.0	5744.6
40°	8085.0	8090.9	8007.3	7611.1	6855.4	5826.8	5040.3	5009.5	5549.5	5680.1	6120.3
42.5°	8385.8	8440.1	8481.2	8280.2	7672.7	6576.6	5666.9	5609.6	6242.1	6350.6	6651.4
45°	8629.4	8726.3	8931.7	8921.4	8457.7	7496.6	6526.7	6409.3	7223.7	7339.6	7327.9
47.5°	8807.0	8905.3	9245.7	9451.1	9195.8	8388.8	7608.1	7506.9	8396.1	8522.3	8074.8
50°	8897.9	9015.3	9449.7	9847.3	9772.5	9248.6	8840.7	8846.6	9812.1	9933.9	8940.5
52.5°	8685.2	8837.8	9558.2	10274.3	10419.6	10071.8	9995.5	10189.2	11072.5	11176.7	9722.6
55°	8005.8	8198.0	9410.0	10638.2	11169.4	11043.2	11307.3	11602.2	12450.4	12517.9	10525.2
57.5°	7575.9	7779.8	8972.8	10947.8	12070.3	12264.0	12682.2	12897.9	13872.2	14043.9	11446.7
60°	7213.4	7373.4	8613.3	11013.8	12985.9	13757.8	14164.2	14387.3	15627.2	15738.7	12460.6
62.5°	6610.4	6793.8	8005.8	10553.1	13446.7	14953.6	15795.9	15696.1	16984.4	17062.2	13082.8
65°	5640.4	5656.6	6773.2	9395.4	12971.3	15729.9	16941.9	16523.7	17633.0	17685.8	13034.4
67.5°	4209.8	4365.3	5210.5	7385.1	10956.6	15066.6	17313.1	16545.7	17223.6	17076.9	11999.9
70°	2711.6	2830.5	3531.9	5121.0	7900.2	12573.6	16082.0	15411.5	15116.5	14790.8	9822.4
72.5°	1251.6	1404.2	2098.3	2925.9	4685.2	8956.6	13054.9	12520.8	10880.3	10076.2	6243.5
75°	545.8	584.0	1035.9	1543.6	2196.6	4736.6	8607.4	7772.5	4914.1	4488.6	2498.9
77.5°	333.1	358.0	542.9	827.6	862.8	1804.8	4636.8	3391.0	1518.7	1339.7	677.9
80°	226.0	253.8	394.7	432.9	294.9	503.3	1740.3	905.3	306.7	293.5	145.3
82.5°	110.1	139.4	292.0	242.1	127.7	161.4	506.2	193.7	89.5	83.6	51.4
85°	16.1	27.9	164.3	158.5	57.2	38.2	89.5	48.4	30.8	29.3	23.5
87.5°	0.0	0.0	55.8	24.9	5.9	5.9	10.3	10.3	11.7	10.3	11.7
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°	3801.9	3801.9	3801.9	3801.9	3801.9	3801.9	3801.9	3801.9	3801.9	3801.9	3801.9
2.5°	3831.2	3838.6	3810.7	3771.1	3728.5	3686.0	3625.8	3571.5	3539.2	3558.3	3511.3
5°	3900.2	3894.3	3820.9	3700.6	3540.7	3348.5	3157.7	2994.8	2942.0	2862.8	2854.0
7.5°	3995.6	3979.4	3823.9	3548.0	3187.1	2826.1	2473.9	2240.6	2107.1	1994.1	1997.0
10°	4129.1	4082.1	3790.1	3279.5	2685.2	2140.8	1691.8	1383.7	1250.2	1207.6	1173.9
12.5°	4267.0	4176.0	3696.2	2917.1	2091.0	1462.9	1028.6	840.8	758.6	732.2	729.3
15°	4390.3	4246.5	3531.9	2481.3	1520.2	934.7	701.4	639.8	629.5	631.0	629.5
17.5°	4512.1	4302.2	3304.4	2019.1	1033.0	670.6	603.1	588.4	592.8	598.7	597.2
20°	4613.3	4314.0	3013.9	1540.7	730.7	588.4	566.4	563.5	567.9	572.3	572.3
22.5°	4723.4	4322.8	2669.1	1066.8	597.2	547.3	535.6	535.6	541.4	547.3	548.8
25°	4805.5	4274.4	2256.8	766.0	526.8	507.7	501.8	503.3	509.2	512.1	510.6
27.5°	4818.7	4137.9	1819.5	586.9	478.4	459.3	453.4	459.3	451.9	456.3	453.4
30°	4830.5	3964.7	1376.4	494.5	434.3	405.0	396.2	387.4	381.5	374.2	372.7
32.5°	4867.2	3760.8	1005.1	444.6	393.2	361.0	340.4	315.5	296.4	290.5	289.1
35°	4883.3	3515.7	738.1	405.0	356.6	321.3	284.7	249.4	221.6	211.3	218.6
37.5°	4944.9	3278.0	572.3	375.6	324.3	280.3	233.3	189.3	162.9	157.0	159.9
40°	5071.1	3019.8	479.8	350.7	296.4	242.1	184.9	142.3	124.7	118.9	117.4
42.5°	5273.6	2763.0	427.0	327.2	268.5	204.0	145.3	111.5	96.8	92.4	92.4
45°	5520.1	2516.5	390.3	302.3	239.2	164.3	114.5	89.5	80.7	77.8	77.8
47.5°	5844.4	2300.8	359.5	277.3	206.9	130.6	92.4	77.8	71.9	73.4	74.8
50°	6173.1	2140.8	325.7	249.4	170.2	107.1	79.2	69.0	67.5	69.0	69.0
52.5°	6421.1	2046.9	280.3	211.3	133.5	89.5	70.4	64.6	63.1	60.2	60.2
55°	6755.6	2026.4	223.0	171.7	105.6	74.8	63.1	58.7	54.3	51.4	49.9
57.5°	7185.6	2049.9	171.7	133.5	82.2	61.6	55.8	48.4	42.6	36.7	36.7
60°	7452.6	1997.0	133.5	102.7	60.2	49.9	42.6	35.2	27.9	23.5	22.0
62.5°	7367.5	1774.0	105.6	76.3	42.6	36.7	27.9	23.5	16.1	11.7	10.3
65°	6928.8	1432.1	85.1	52.8	30.8	22.0	14.7	14.7	7.3	1.5	0.0
67.5°	6064.5	1060.9	67.5	35.2	17.6	10.3	7.3	4.4	0.0	0.0	0.0
70°	4936.1	766.0	52.8	22.0	10.3	7.3	2.9	1.5	0.0	0.0	0.0
72.5°	3134.2	438.7	41.1	13.2	7.3	2.9	0.0	0.0	0.0	0.0	0.0
75°	1212.0	171.7	27.9	8.8	2.9	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	343.4	80.7	16.1	4.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	89.5	35.2	8.8	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	42.6	14.7	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	24.9	5.9	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	11.7	1.5	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)