

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: P383430

Luminaire Tested: **GLEON-SA7B-735-U-T3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383430
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-15)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA7B-735-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27439.7 lumens
Efficiency: N/A
Efficacy: 93.0 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

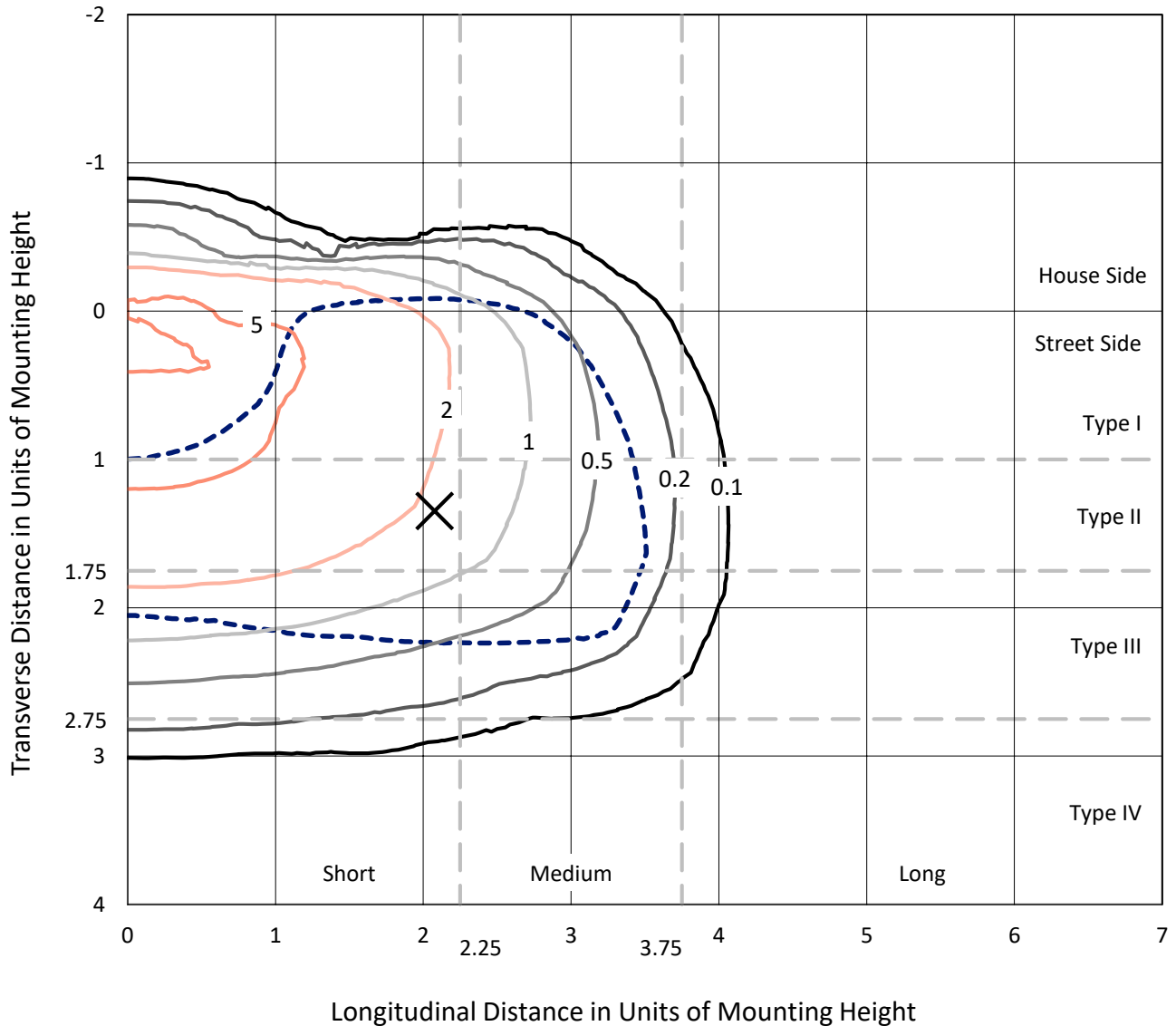
Input Watts (W): 295
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

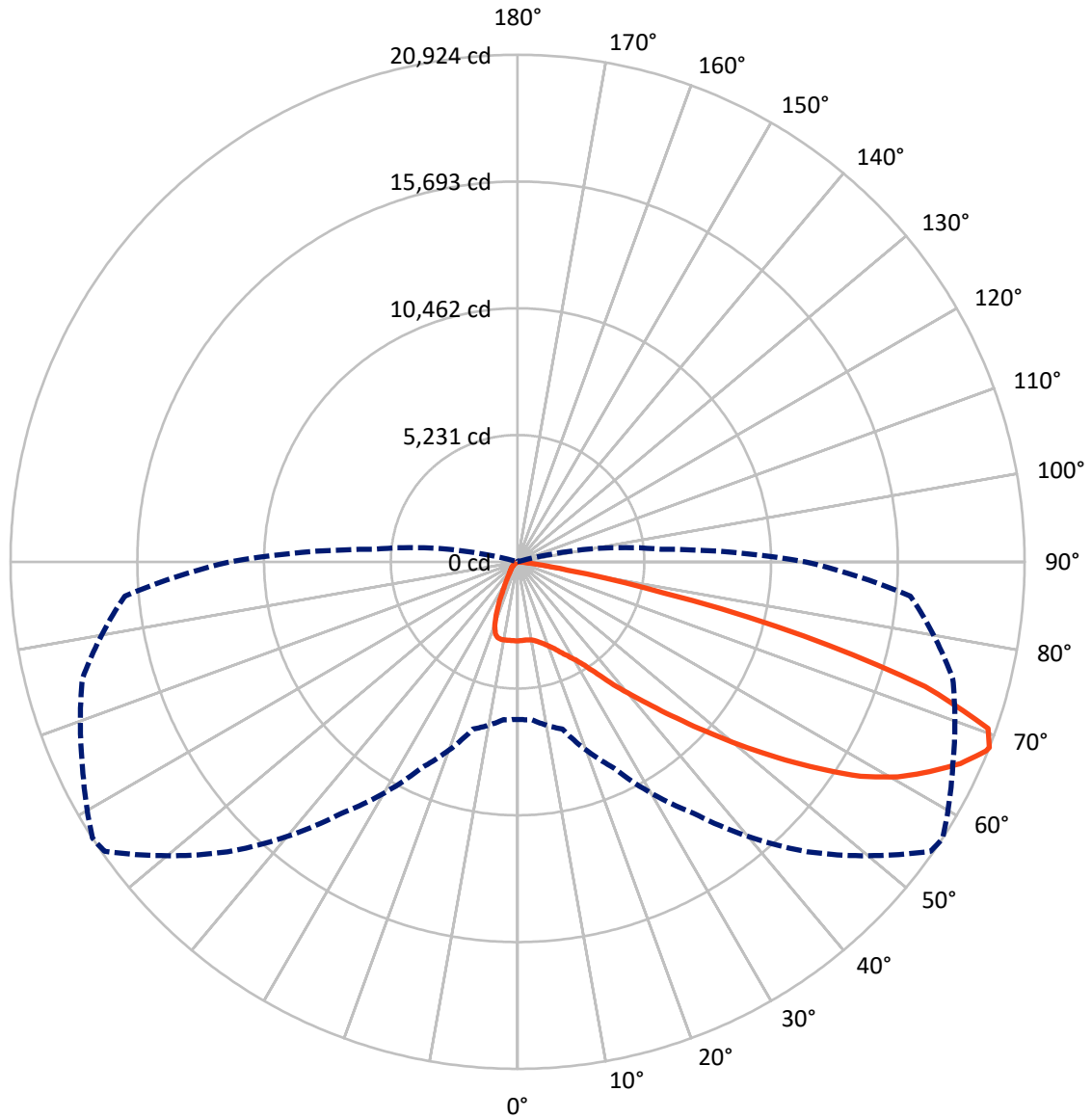
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.7 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 68-Deg Vertical

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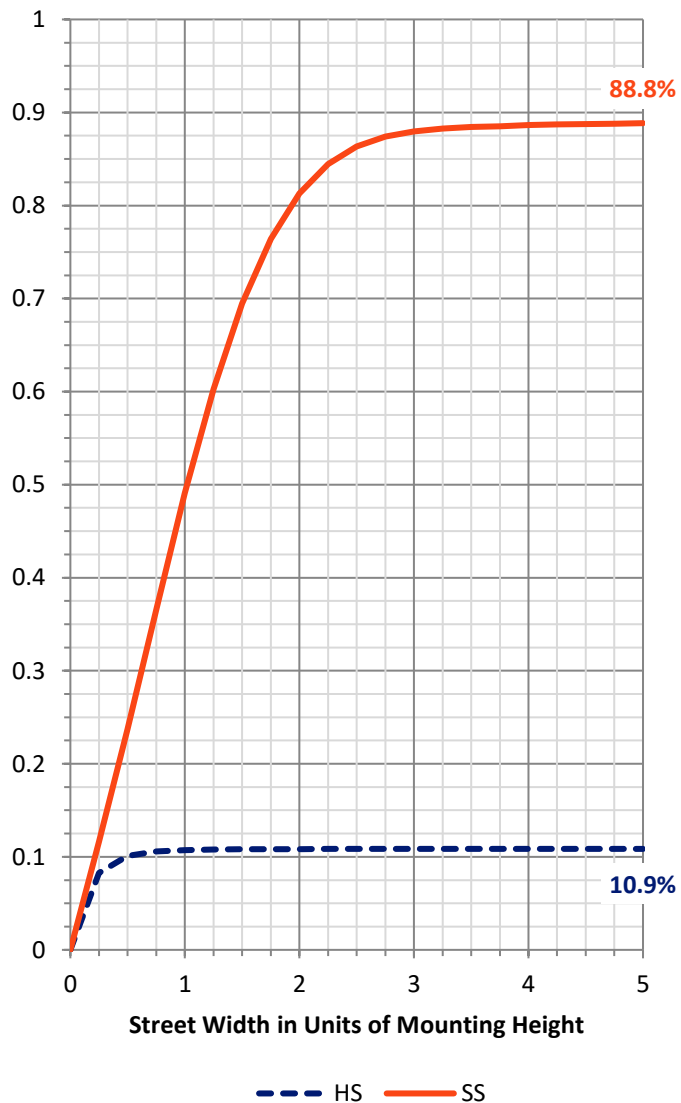
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3008.9	0.0	3008.9
	% Fixture	11.0	0.0	11.0
Street Side	Lumens	24430.7	0.0	24430.7
	% Fixture	89.0	0.0	89.0
Total	Lumens	27439.7	0.0	27439.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	305.1	1.1
10°-20°	845.6	3.1
20°-30°	1458.7	5.3
30°-40°	2517.6	9.2
40°-50°	4306.4	15.7
50°-60°	6889.9	25.1
60°-70°	7960.5	29.0
70°-80°	3041.8	11.1
80°-90°	114.0	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°	27439.7	100.0
0°-180°	27439.7	100.0

Coefficient of Utilization



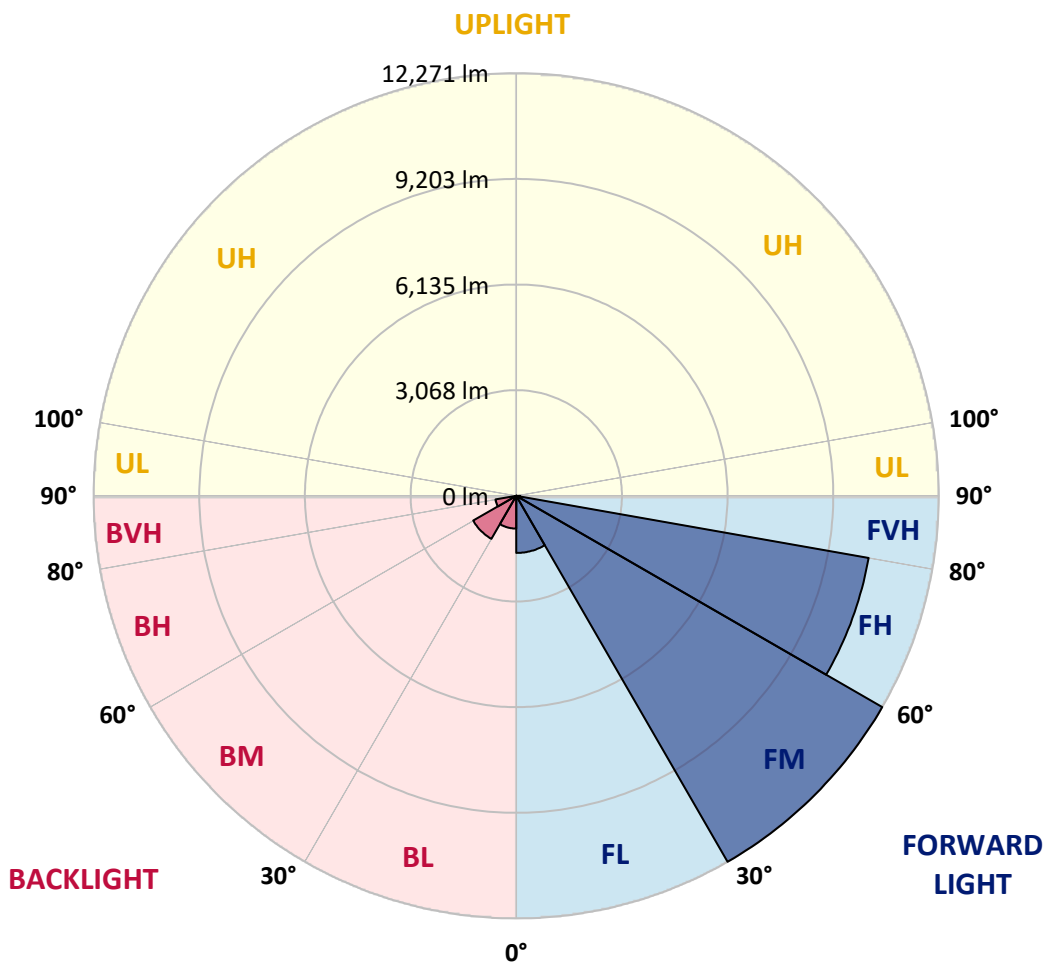
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1658.5	6.0			
FM (30°-60°)	12270.8	44.7			
FH (60°-80°)	10389.5	37.9			G4/12000
FVH (80°-90°)	111.9	0.4			G2/225
BL (0°-30°)	950.9	3.5	B2/1000		
BM (30°-60°)	1443.1	5.3	B2/2500		
BH (60°-80°)	612.8	2.2	B2/1000		G2/1000
BVH (80°-90°)	2.1	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°	57°	65°	75°	85°
0°	3260.5	3260.5	3260.5	3260.5	3260.5	3260.5	3260.5	3260.5	3260.5	3260.5	3260.5
2.5°	3184.0	3198.3	3208.6	3215.1	3223.0	3239.8	3245.0	3252.8	3256.7	3256.7	3265.7
5°	3058.2	3073.7	3095.8	3114.0	3150.3	3197.0	3230.7	3243.6	3267.0	3287.8	3299.4
7.5°	2941.4	2959.5	2985.5	3028.3	3090.6	3165.9	3235.9	3254.1	3299.4	3343.6	3365.7
10°	2866.1	2880.4	2914.2	2975.1	3056.9	3162.0	3260.5	3282.6	3360.5	3434.4	3476.0
12.5°	2840.2	2853.1	2888.2	2956.9	3058.2	3181.4	3317.6	3350.1	3464.2	3571.9	3630.3
15°	2877.8	2880.4	2918.0	2982.9	3082.8	3229.4	3412.4	3451.3	3595.3	3735.4	3808.1
17.5°	3023.2	3011.4	3030.9	3059.5	3138.6	3293.0	3512.3	3570.6	3762.7	3927.5	3996.2
20°	3386.5	3386.5	3342.3	3264.4	3265.7	3391.6	3647.2	3713.3	3948.2	4139.0	4201.2
22.5°	4007.9	3996.2	3908.0	3717.2	3542.1	3561.6	3812.0	3897.6	4171.4	4375.1	4395.9
25°	4755.3	4741.0	4604.7	4336.2	4032.6	3836.7	4035.2	4133.7	4437.3	4617.7	4574.9
27.5°	5546.7	5535.1	5400.1	5066.7	4634.5	4275.2	4301.1	4394.6	4708.5	4886.2	4750.1
30°	6313.5	6317.4	6183.8	5841.3	5352.1	4834.4	4638.5	4693.0	4971.9	5152.3	4957.7
32.5°	7042.7	7047.9	6932.4	6549.6	6093.0	5484.4	5105.5	5091.3	5278.1	5455.9	5232.7
35°	7692.7	7705.7	7626.6	7329.4	6845.5	6208.4	5711.5	5677.8	5712.8	5913.9	5654.4
37.5°	8319.4	8327.2	8267.5	8017.1	7612.3	7003.7	6477.0	6429.0	6353.7	6508.2	6211.0
40°	9005.7	8986.4	8917.5	8690.5	8342.8	7882.2	7299.6	7216.5	7085.5	7223.0	6942.8
42.5°	9644.1	9622.0	9633.8	9376.9	9083.6	8785.2	8258.4	8115.7	8039.2	8197.4	7840.6
45°	10442.1	10430.4	10469.3	10246.2	10008.7	9792.1	9357.4	9201.7	9167.9	9353.5	8926.6
47.5°	11229.6	11258.2	11378.9	11284.1	11188.2	10997.4	10521.3	10451.1	10471.9	10696.4	10072.3
50°	11886.2	11919.9	12250.8	12359.8	12498.6	12387.0	11909.6	11866.7	11948.5	12150.8	11304.9
52.5°	12361.1	12429.8	12841.1	13343.2	13849.2	13924.5	13448.3	13409.4	13519.7	13550.9	12257.2
55°	12690.6	12751.6	13217.4	14136.0	15166.2	15490.5	15194.8	15044.2	15023.4	14715.9	13258.9
57.5°	12749.0	12742.5	13412.0	14648.5	16199.0	17035.9	16849.0	16701.1	16275.5	15792.9	14407.1
60°	12419.4	12457.0	13234.2	14826.2	16847.7	18204.9	18219.1	18027.1	17364.1	16840.0	15520.4
62.5°	11404.8	11557.9	12342.9	14360.5	16840.0	18675.9	19223.4	19076.8	18284.0	17697.5	16649.2
65°	9759.6	9814.1	10562.7	12764.5	15702.1	18478.6	20127.8	20073.3	19113.1	18530.5	17229.2
67.5°	7127.0	7009.0	7795.2	10051.6	13293.9	17329.1	20776.5	20845.2	19752.7	18701.8	16611.5
68°	6504.3	6539.3	7151.7	9380.8	12663.4	16923.0	20819.3	20924.4	19816.3	18590.2	16274.2
70°	3876.8	3944.4	4490.5	6458.8	9633.8	14625.1	20357.4	20597.4	19437.5	17439.4	14076.3
72.5°	990.0	1070.4	1586.8	2890.8	5502.6	10304.6	17185.1	17591.2	16876.3	14147.7	9502.7
75°	407.4	428.1	567.0	952.3	2050.1	4642.4	11327.0	12196.3	11699.3	8469.9	4294.6
77.5°	281.5	295.9	364.6	528.1	887.5	1573.8	5553.2	6181.2	5568.8	2890.8	936.8
80°	202.4	214.1	260.8	351.7	509.9	561.8	1810.0	2092.8	1662.1	634.5	232.2
82.5°	120.6	129.8	194.6	250.4	310.1	268.6	450.2	511.2	481.3	315.3	103.8
85°	59.7	70.1	131.1	179.0	167.4	112.9	137.5	153.1	189.5	192.0	55.8
87.5°	3.9	7.8	76.6	107.7	46.7	26.0	40.2	49.3	67.4	94.7	23.4
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°	3260.5	3260.5	3260.5	3260.5	3260.5	3260.5	3260.5	3260.5	3260.5	3260.5	3260.5
2.5°	3269.6	3270.9	3261.8	3258.0	3260.5	3245.0	3238.5	3241.1	3241.1	3245.0	3238.5
5°	3302.1	3302.1	3286.5	3265.7	3254.1	3224.3	3204.8	3199.6	3195.7	3193.1	3187.9
7.5°	3372.1	3364.4	3337.1	3291.7	3252.8	3187.9	3138.6	3112.7	3099.6	3094.5	3090.6
10°	3485.0	3470.8	3425.3	3341.0	3251.5	3136.0	3028.3	2951.8	2888.2	2862.3	2846.6
12.5°	3636.9	3616.1	3539.5	3399.4	3242.3	3029.6	2796.0	2571.6	2362.7	2277.1	2234.2
15°	3812.0	3782.2	3661.4	3448.7	3189.2	2789.6	2282.3	1889.1	1599.7	1490.8	1444.1
17.5°	3989.7	3950.8	3767.8	3479.8	3029.6	2292.6	1601.1	1209.2	1015.9	964.1	945.9
20°	4168.8	4111.7	3860.0	3456.5	2668.9	1652.9	1056.2	883.6	827.8	812.2	807.0
22.5°	4338.8	4250.6	3943.1	3365.7	2113.6	1109.4	835.6	781.1	762.9	753.8	751.2
25°	4486.7	4363.4	4015.7	3085.4	1496.0	838.2	752.5	734.3	711.1	694.2	695.4
27.5°	4625.5	4476.3	4059.8	2623.5	997.8	716.2	696.7	672.1	629.3	604.7	604.7
30°	4792.9	4626.8	4092.2	2018.8	734.3	633.2	617.6	580.0	521.6	489.2	489.2
32.5°	5044.6	4855.1	4071.5	1416.9	608.5	556.6	520.3	468.4	404.9	373.6	372.3
35°	5429.9	5208.1	3923.6	929.0	537.1	483.9	425.5	362.0	306.2	280.2	279.0
37.5°	5949.0	5680.4	3591.4	664.3	481.3	416.5	346.4	276.4	234.8	218.0	216.7
40°	6622.3	6229.2	3116.5	538.4	429.4	351.7	267.3	214.1	185.6	172.5	173.8
42.5°	7430.7	6817.0	2546.9	464.5	378.9	289.3	208.9	168.7	150.5	141.4	138.8
45°	8328.5	7397.0	1950.1	413.9	328.3	233.5	163.5	133.7	119.3	114.2	114.2
47.5°	9315.8	7961.3	1427.2	369.8	273.8	180.3	131.1	109.0	97.3	93.4	92.1
50°	10212.5	8353.2	1028.9	323.1	224.5	142.7	106.4	90.8	83.0	77.9	77.9
52.5°	10959.8	8476.4	757.7	272.5	181.7	114.2	88.2	77.9	70.1	66.1	66.1
55°	11617.6	8425.8	563.1	224.5	146.6	93.4	75.3	66.1	59.7	55.8	55.8
57.5°	12248.2	8262.4	420.4	183.0	118.0	75.3	63.5	55.8	49.3	46.7	46.7
60°	12763.2	7989.9	312.7	147.9	94.7	61.0	53.2	45.4	40.2	36.3	36.3
62.5°	13181.0	7688.8	229.6	121.9	75.3	48.0	41.5	37.6	29.8	26.0	26.0
65°	13183.6	7189.3	172.5	101.2	58.4	37.6	31.1	29.8	19.5	15.6	14.3
67.5°	12230.0	6198.1	132.4	86.9	45.4	28.5	23.4	24.7	10.3	6.5	5.2
68°	11883.6	5946.3	124.5	85.6	42.9	27.2	22.1	24.7	9.0	5.2	3.9
70°	10019.1	4730.6	99.9	83.0	37.6	20.8	18.2	24.7	7.8	3.9	2.6
72.5°	6408.2	2745.5	74.0	66.1	28.5	15.6	11.6	22.1	7.8	2.6	1.3
75°	2727.3	851.2	50.6	46.7	16.9	11.6	7.8	14.3	5.2	1.3	0.0
77.5°	574.8	192.0	29.8	28.5	11.6	7.8	5.2	3.9	1.3	0.0	0.0
80°	147.9	55.8	15.6	14.3	6.5	3.9	2.6	0.0	0.0	0.0	0.0
82.5°	46.7	22.1	9.0	6.5	2.6	0.0	0.0	0.0	0.0	0.0	0.0
85°	23.4	12.9	5.2	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	12.9	3.9	1.3	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)