

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: P383180

Luminaire Tested: **GLEON-SA5A-735-U-T3R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383180
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-11)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA5A-735-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3500K, 615mA 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: 16686.8 lumens
Efficiency: N/A
Efficacy: 103.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

Input Watts (W): 162
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

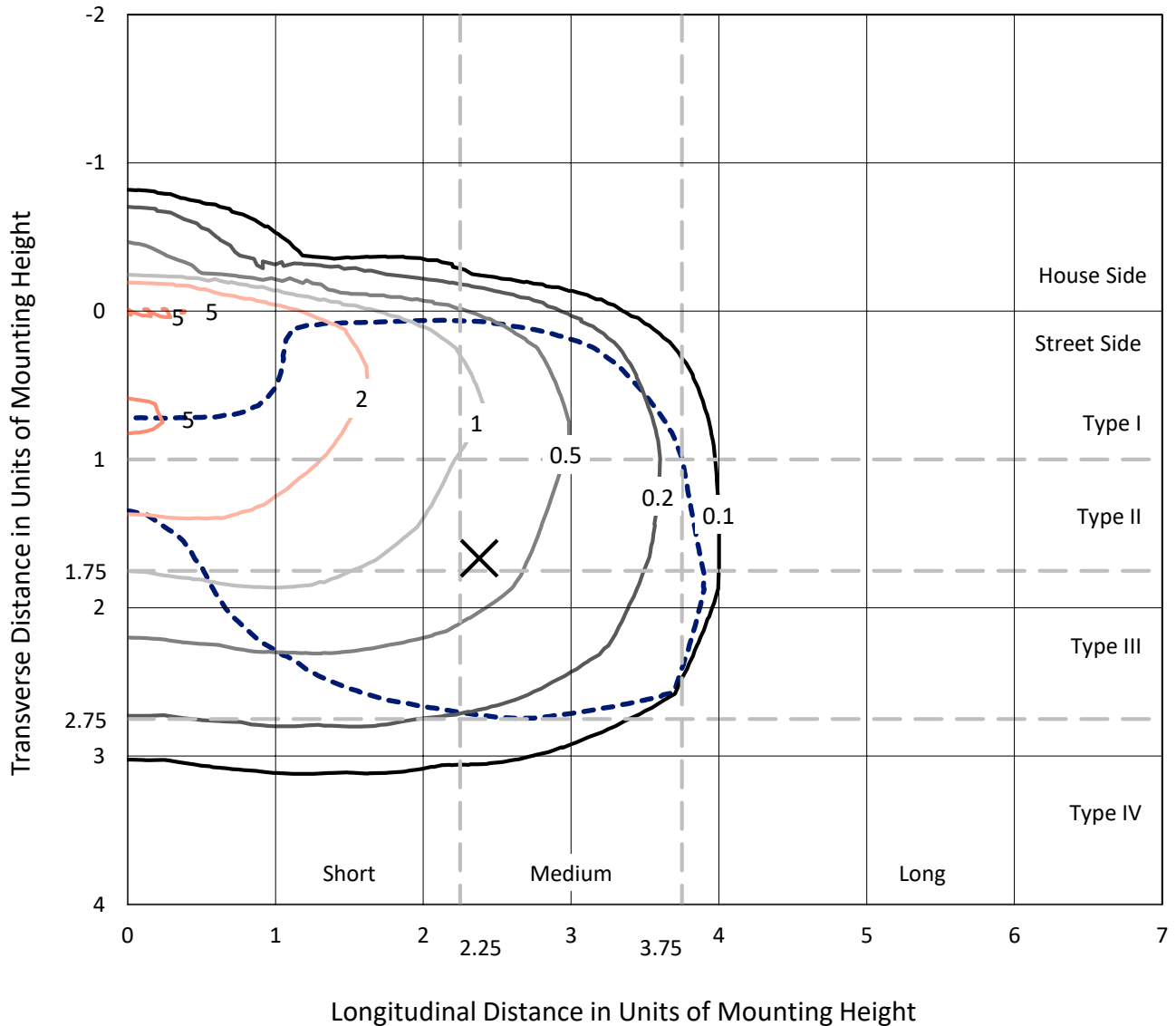




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Iso-Footcandle Lines of Horizontal Illumination

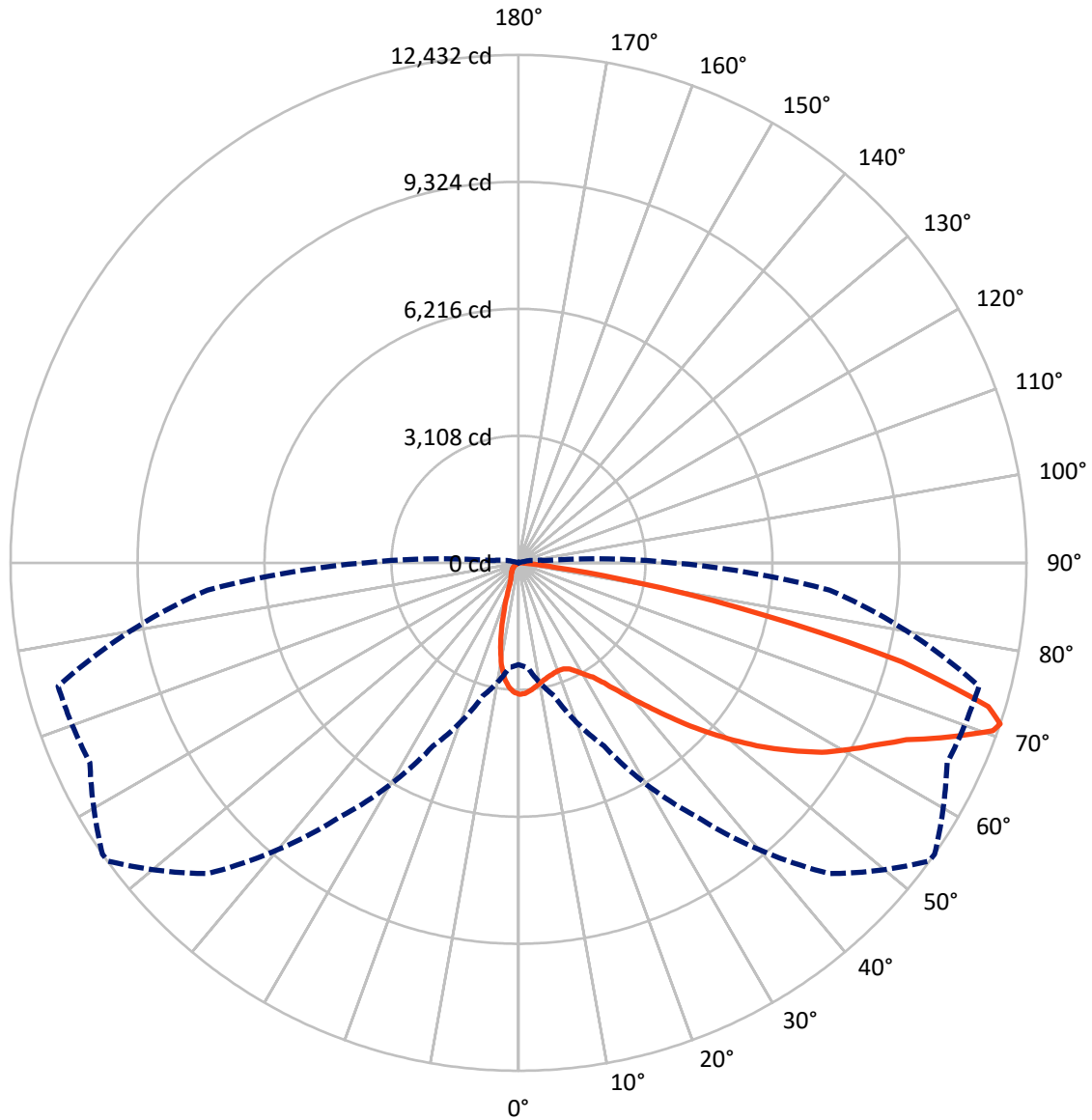
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.3 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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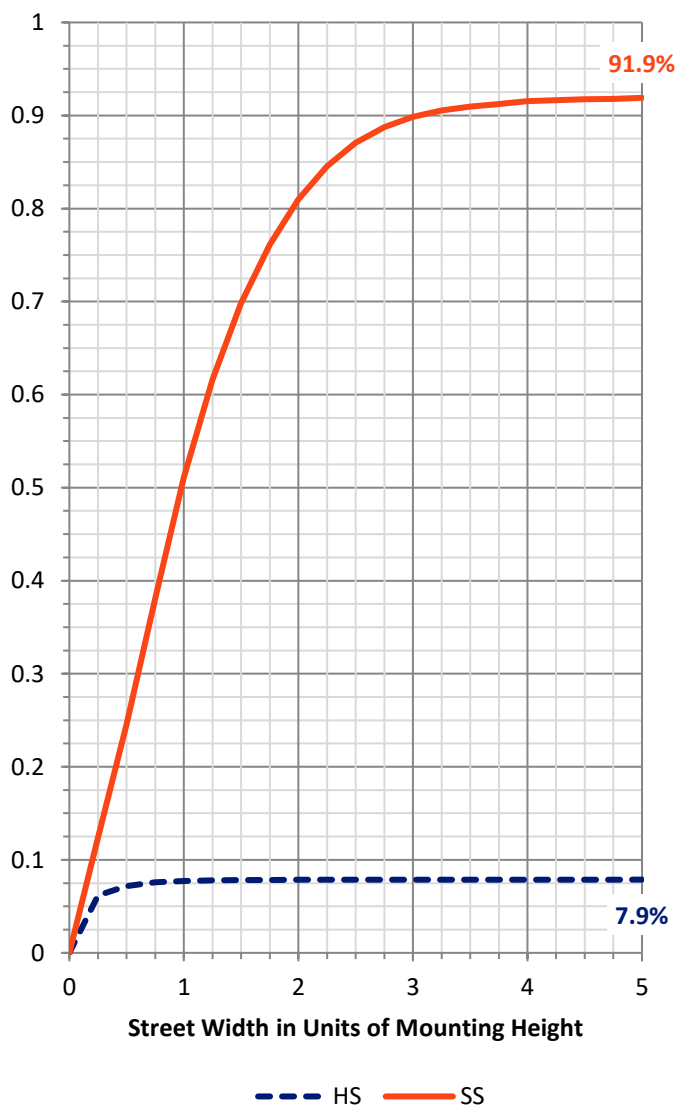
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1321.1	0.0	1321.1
	% Fixture	7.9	0.0	7.9
Street Side	Lumens	15365.7	0.0	15365.7
	% Fixture	92.1	0.0	92.1
Total	Lumens	16686.8	0.0	16686.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	274.4	1.6
10°-20°	619.4	3.7
20°-30°	995.5	6.0
30°-40°	1691.4	10.1
40°-50°	2625.2	15.7
50°-60°	3529.5	21.2
60°-70°	4317.8	25.9
70°-80°	2524.5	15.1
80°-90°	109.1	0.7
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°	16686.8	100.0
0°-180°	16686.8	100.0

Coefficient of Utilization

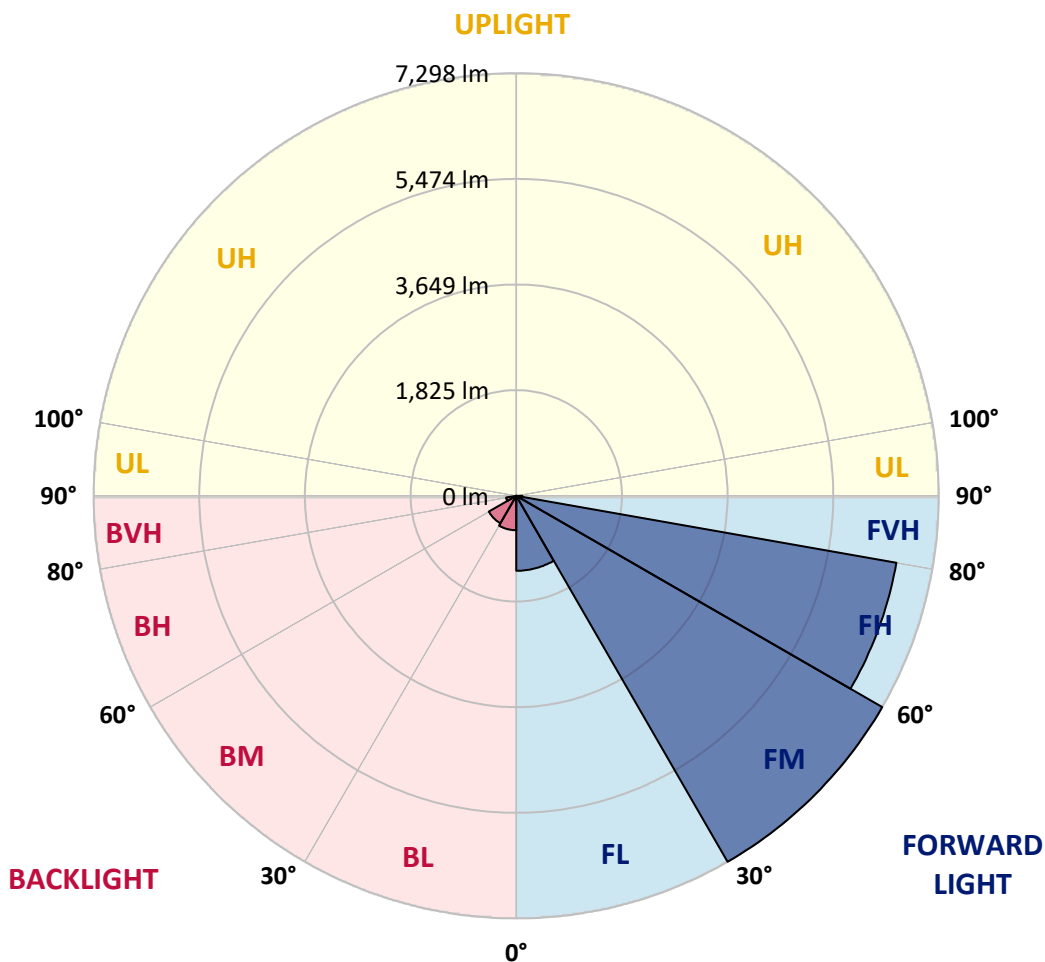


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1294.7	7.8			
FM (30°-60°)	7298.3	43.7			
FH (60°-80°)	6665.3	39.9			G3/7500
FVH (80°-90°)	107.4	0.6			G2/225
BL (0°-30°)	594.6	3.6	B2/1000		
BM (30°-60°)	547.8	3.3	B1/1000		
BH (60°-80°)	177.0	1.1	B1/500		G1/500
BVH (80°-90°)	1.7	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 Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	3218.1	3218.1	3218.1	3218.1	3218.1	3218.1	3218.1	3218.1	3218.1	3218.1	3218.1
2.5°	3123.7	3127.5	3140.9	3147.0	3161.2	3185.1	3197.2	3197.9	3217.4	3224.8	3230.9
5°	2902.7	2925.2	2947.6	2971.6	3015.0	3072.7	3129.7	3134.9	3197.9	3244.3	3269.1
7.5°	2712.4	2732.6	2759.5	2797.8	2859.2	2949.8	3045.0	3056.3	3175.4	3281.0	3336.5
10°	2516.8	2533.3	2572.3	2628.5	2713.1	2834.5	2962.6	2981.3	3155.2	3330.5	3427.9
12.5°	2307.7	2317.5	2364.7	2445.6	2570.0	2724.3	2892.9	2917.7	3142.4	3387.5	3535.8
15°	2148.9	2153.4	2198.4	2282.3	2424.6	2625.5	2839.0	2869.0	3145.5	3455.7	3653.4
17.5°	2108.5	2110.7	2134.6	2192.4	2318.2	2537.1	2796.2	2833.0	3154.4	3522.3	3771.8
20°	2272.5	2256.8	2232.1	2223.0	2277.1	2483.8	2770.8	2812.0	3166.4	3581.5	3878.2
22.5°	2722.8	2676.4	2573.8	2436.6	2353.5	2487.6	2777.5	2818.8	3204.6	3654.2	4001.1
25°	3391.2	3326.7	3152.2	2882.4	2623.2	2595.5	2833.8	2875.7	3278.8	3741.1	4118.7
27.5°	4151.7	4088.0	3874.5	3489.4	3047.3	2809.0	2962.6	3001.5	3389.0	3818.3	4208.6
30°	4880.0	4862.0	4610.2	4172.7	3580.8	3155.2	3129.0	3162.0	3470.6	3864.7	4279.8
32.5°	5497.4	5468.9	5266.6	4841.1	4191.4	3571.0	3324.5	3334.3	3532.1	3924.7	4372.8
35°	6069.9	6034.7	5857.0	5454.7	4817.8	4079.1	3625.7	3611.5	3666.2	4045.3	4507.6
37.5°	6569.6	6601.8	6404.8	6021.9	5379.8	4607.2	4031.8	3989.1	3876.0	4241.6	4703.2
40°	6987.7	6987.7	6885.1	6565.8	5986.7	5153.5	4491.1	4434.9	4191.4	4544.3	4951.2
42.5°	7138.3	7170.5	7208.7	7028.2	6529.9	5721.4	5002.9	4944.5	4635.8	4973.6	5264.4
45°	7147.3	7198.3	7393.8	7393.0	7020.6	6285.6	5579.8	5552.1	5205.2	5525.1	5652.4
47.5°	7020.6	7084.3	7406.5	7589.3	7409.5	6810.8	6210.7	6176.3	5874.2	6200.9	6058.6
50°	6825.1	6895.5	7270.2	7666.5	7674.0	7267.9	6875.3	6823.6	6610.8	6973.5	6478.2
52.5°	6475.2	6611.6	7148.0	7684.5	7847.8	7662.8	7507.7	7485.2	7435.0	7717.5	6812.3
55°	5726.7	5878.0	6841.6	7690.5	8009.0	8012.7	8100.4	8106.3	8207.5	8412.8	7061.1
57.5°	5373.0	5458.4	6306.6	7719.0	8247.9	8409.8	8704.3	8750.7	8907.3	9072.9	7345.1
60°	5150.4	5251.6	6042.9	7680.1	8623.3	8930.6	9264.0	9279.7	9447.6	9754.0	7729.4
62.5°	4972.9	5072.6	5876.5	7530.2	9045.1	9556.9	9811.0	9812.5	9938.3	10565.4	8166.3
65°	4534.6	4618.5	5540.1	7361.6	9324.0	10176.6	10446.3	10436.6	10539.3	11421.1	8673.5
67.5°	3900.7	3965.1	4853.0	6722.4	9219.0	10740.0	11405.4	11373.2	11248.8	12160.6	8872.8
70°	3015.8	3039.1	3825.0	5602.3	8236.0	10956.6	12332.2	12315.7	11684.1	12028.0	8142.3
71°	2492.8	2569.2	3371.0	4944.5	7577.4	10756.5	12422.1	12431.9	11574.8	11666.9	7639.5
72.5°	1447.6	1512.7	2443.4	3797.3	6433.3	9921.8	11956.1	12026.6	11063.7	10611.9	6525.4
75°	310.2	331.9	905.8	1837.9	3538.8	6954.0	9437.0	9688.1	9017.5	7219.2	3932.9
77.5°	215.7	233.0	388.1	833.9	1169.7	3436.1	5862.3	6145.5	5387.2	2713.1	1258.8
80°	170.8	190.3	302.7	412.1	316.2	1108.2	2746.1	2919.2	1796.8	605.4	212.0
82.5°	95.1	113.2	236.1	222.5	121.4	210.5	768.7	869.1	359.7	122.1	50.2
85°	27.8	33.7	152.1	161.8	51.7	40.4	131.2	162.6	68.2	32.2	22.5
87.5°	0.0	0.0	73.4	62.2	15.0	6.0	12.0	13.5	13.5	13.5	15.0
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°	3218.1	3218.1	3218.1	3218.1	3218.1	3218.1	3218.1	3218.1	3218.1	3218.1	3218.1
2.5°	3230.9	3236.1	3217.4	3192.6	3166.4	3134.2	3100.5	3074.3	3073.5	3060.8	3048.0
5°	3270.6	3267.6	3215.9	3137.2	3044.3	2947.6	2855.5	2751.3	2716.9	2674.1	2659.9
7.5°	3344.0	3323.0	3213.7	3041.3	2837.5	2635.2	2426.1	2215.6	2125.7	2044.7	2030.5
10°	3436.1	3396.4	3199.4	2897.4	2523.6	2150.4	1835.0	1548.7	1422.8	1326.2	1321.7
12.5°	3532.1	3471.3	3159.6	2680.2	2112.2	1587.7	1224.3	942.5	837.6	770.2	776.3
15°	3632.5	3541.8	3074.3	2387.2	1643.9	1077.4	752.2	586.7	544.7	527.4	532.0
17.5°	3735.1	3590.5	2955.1	2034.2	1181.6	695.3	520.7	474.3	474.3	478.1	479.6
20°	3824.3	3616.7	2779.8	1638.7	800.9	506.5	455.5	448.8	452.5	458.5	459.3
22.5°	3912.7	3618.2	2551.2	1237.7	560.4	443.6	433.8	430.8	433.1	439.8	440.5
25°	3984.6	3600.2	2265.1	880.4	447.3	418.1	413.6	412.1	413.6	421.8	421.8
27.5°	4013.9	3535.0	1915.9	618.9	400.8	389.7	388.1	389.7	391.9	397.9	398.6
30°	4016.8	3421.2	1535.3	448.1	363.4	351.4	354.4	359.7	357.4	355.9	357.4
32.5°	4024.3	3289.3	1164.3	368.6	331.9	313.2	309.5	309.5	300.4	295.2	292.2
35°	4049.1	3134.2	844.4	331.2	299.7	278.0	263.7	247.2	230.0	221.1	218.8
37.5°	4088.0	2971.6	604.7	306.5	271.3	246.5	219.6	190.3	165.6	158.8	158.8
40°	4159.2	2803.8	447.3	287.0	248.7	218.1	177.6	139.4	116.9	113.2	113.2
42.5°	4271.6	2627.0	356.7	269.8	229.3	188.8	135.6	101.2	84.7	82.4	81.7
45°	4388.4	2432.1	311.7	253.3	208.3	155.1	100.4	74.9	65.2	63.0	63.0
47.5°	4505.3	2224.5	290.0	237.5	188.1	120.6	74.9	59.2	54.7	54.7	55.4
50°	4604.3	2008.0	274.2	220.3	161.8	91.4	59.2	50.2	48.7	51.7	52.4
52.5°	4629.0	1795.3	254.8	198.5	129.6	69.7	48.7	44.2	44.2	44.2	44.2
55°	4614.0	1630.4	229.3	171.6	95.9	55.4	41.9	38.9	38.2	38.2	38.2
57.5°	4664.9	1533.0	183.6	133.4	68.9	45.0	36.7	34.5	33.0	32.2	32.2
60°	4767.6	1469.3	131.2	95.9	51.7	37.4	31.5	29.3	27.0	25.4	25.4
62.5°	4903.9	1413.9	97.4	71.2	39.7	30.0	26.3	23.9	21.0	19.5	19.5
65°	5008.8	1315.0	74.2	53.2	30.0	23.9	20.2	19.5	15.0	13.5	12.8
67.5°	4848.5	1097.6	59.9	38.9	22.5	18.7	15.7	15.0	9.0	7.5	7.5
70°	4158.4	764.2	48.0	28.5	16.5	15.0	12.8	9.8	6.7	6.0	6.0
71°	3771.1	638.4	43.5	23.9	14.3	14.3	12.0	8.2	6.0	5.2	5.2
72.5°	3132.7	453.3	36.7	18.7	12.8	15.0	12.8	7.5	6.0	5.2	4.5
75°	1818.5	189.6	25.4	12.8	9.8	18.0	16.5	6.7	4.5	3.7	3.7
77.5°	547.0	69.7	14.3	8.2	7.5	15.7	18.7	6.0	2.2	0.7	0.7
80°	99.7	30.0	9.0	5.2	5.2	9.8	14.3	3.0	0.0	0.0	0.0
82.5°	35.2	15.0	5.2	3.0	2.2	4.5	6.7	0.0	0.0	0.0	0.0
85°	20.2	10.5	3.0	1.5	0.0	0.7	1.5	0.0	0.0	0.0	0.0
87.5°	13.5	3.0	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)