

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: P383464

Luminaire Tested: **GLEON-SA7C-735-U-T4W-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383464
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-19)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA7C-735-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33778.9 lumens
Efficiency: N/A
Efficacy: 86.4 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

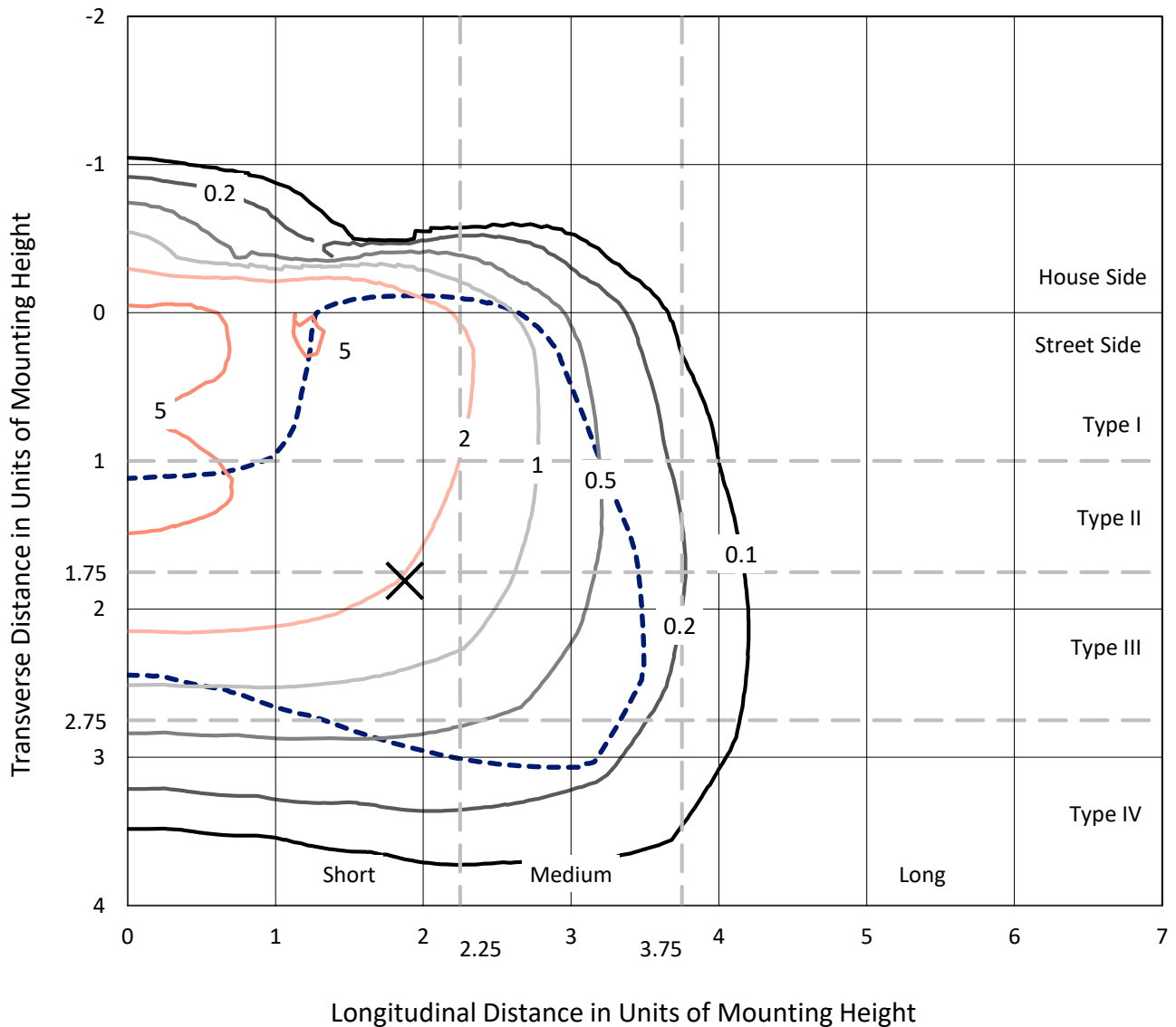
Input Watts (W): 391
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

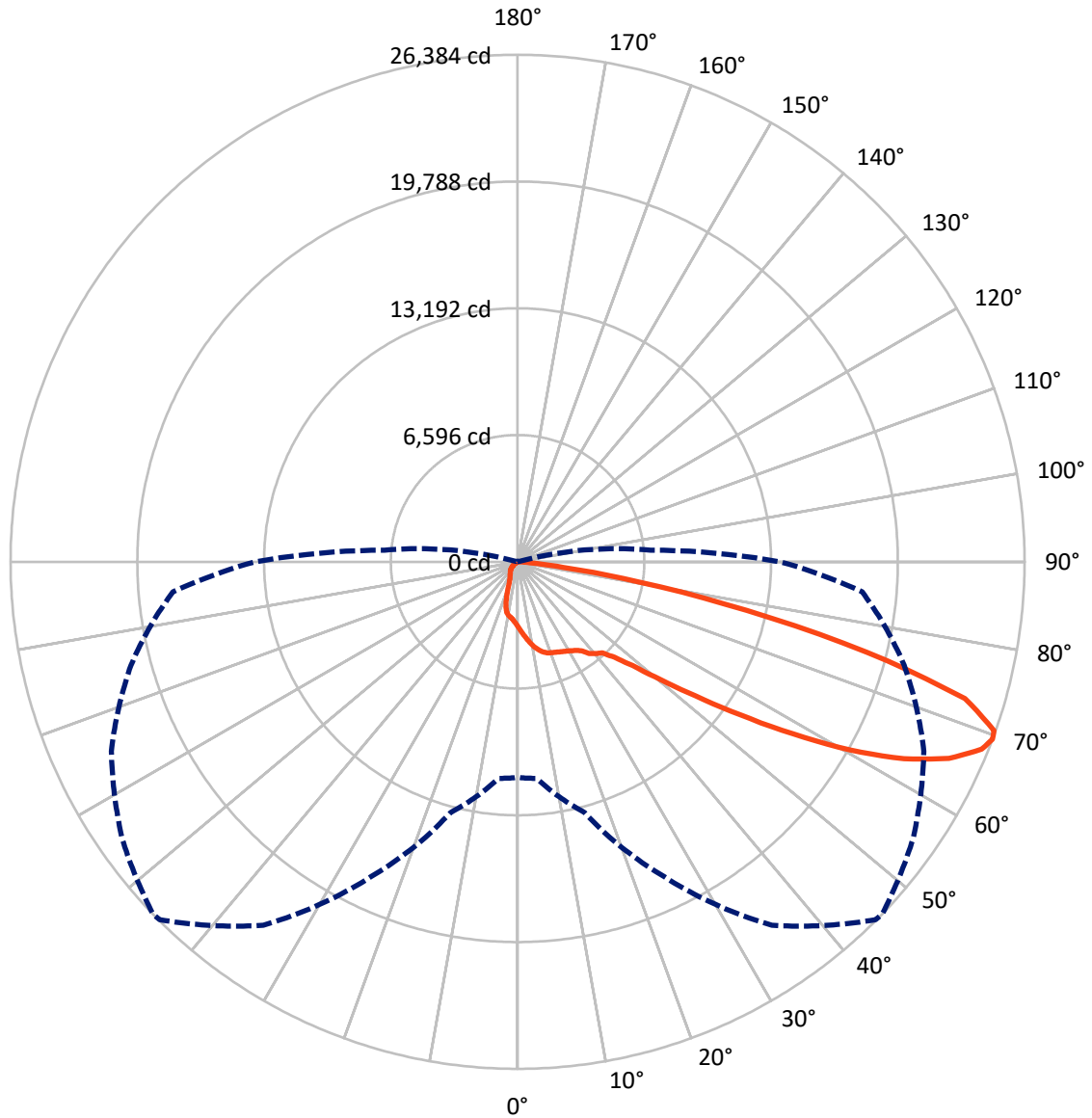
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.9 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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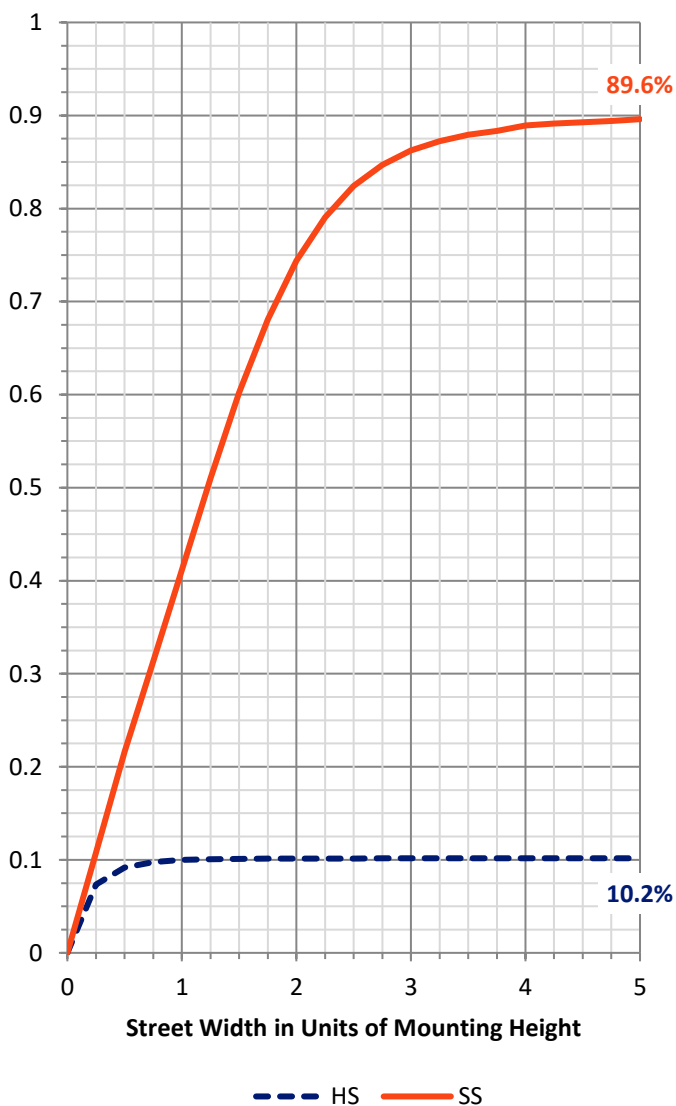
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3466.6	0.0	3466.6
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	30312.2	0.0	30312.2
	% Fixture	89.7	0.0	89.7
Total	Lumens	33778.9	0.0	33778.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	336.9	1.0
10°-20°	1022.0	3.0
20°-30°	1607.3	4.8
30°-40°	2304.8	6.8
40°-50°	3983.6	11.8
50°-60°	7870.0	23.3
60°-70°	10999.0	32.6
70°-80°	5313.7	15.7
80°-90°	341.5	1.0
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°	33778.9	100.0
0°-180°	33778.9	100.0

Coefficient of Utilization

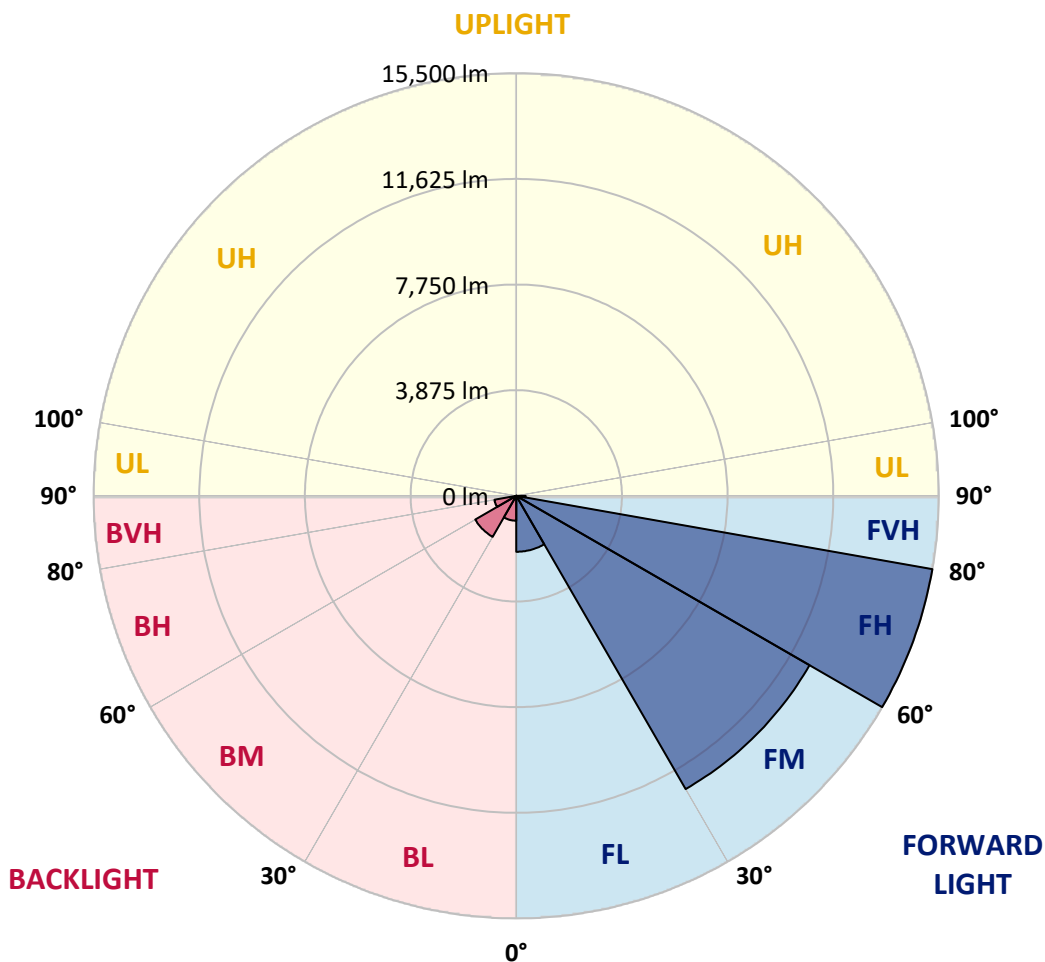


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2052.5	6.1			
FM (30°-60°)	12421.2	36.8			
FH (60°-80°)	15499.9	45.9			G5
FVH (80°-90°)	338.7	1.0			G3/500
BL (0°-30°)	913.7	2.7	B2/1000		
BM (30°-60°)	1737.2	5.1	B2/2500		
BH (60°-80°)	812.9	2.4	B2/1000		G2/1000
BVH (80°-90°)	2.9	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-G5
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	3384.5	3384.5	3384.5	3384.5	3384.5	3384.5	3384.5	3384.5	3384.5	3384.5	3384.5
2.5°	3759.9	3755.2	3732.9	3723.4	3669.6	3637.9	3625.2	3585.6	3528.6	3471.6	3408.3
5°	4187.5	4185.9	4144.7	4105.1	4003.8	3908.8	3891.4	3799.5	3671.1	3550.8	3430.4
7.5°	4624.6	4604.0	4562.8	4486.8	4339.5	4187.5	4173.2	4043.4	3861.3	3687.0	3514.4
10°	4995.2	4982.6	4928.7	4813.1	4640.4	4467.8	4450.4	4290.4	4084.6	3870.8	3650.5
12.5°	5283.5	5274.0	5202.7	5058.6	4874.9	4695.8	4672.1	4529.6	4309.4	4070.3	3810.6
15°	5459.2	5454.5	5367.4	5213.8	5033.2	4878.0	4857.5	4732.3	4528.0	4277.8	3984.8
17.5°	5500.4	5502.0	5411.7	5256.5	5107.7	4996.8	4981.0	4886.0	4714.8	4466.2	4159.0
20°	5408.6	5427.6	5346.8	5212.2	5120.3	5061.8	5049.1	4992.1	4848.0	4613.5	4298.3
22.5°	5278.7	5288.2	5232.8	5142.5	5104.5	5115.6	5109.3	5077.6	4955.6	4740.2	4436.1
25°	5199.5	5199.5	5166.3	5090.3	5115.6	5183.7	5185.3	5178.9	5082.3	4895.5	4604.0
27.5°	5196.4	5186.9	5148.8	5091.8	5161.5	5266.0	5272.4	5315.1	5255.0	5083.9	4813.1
30°	5323.0	5312.0	5231.2	5156.8	5245.5	5357.9	5373.7	5467.2	5437.1	5288.2	5045.9
32.5°	5619.2	5579.6	5400.6	5278.7	5345.2	5479.8	5500.4	5649.3	5696.8	5540.0	5270.8
35°	6024.7	5899.6	5641.4	5509.9	5516.3	5657.2	5676.2	5894.8	6035.8	5771.2	5445.0
37.5°	6583.7	6522.0	6102.3	5750.6	5779.1	5993.0	6048.4	6286.0	6246.4	5898.0	5642.9
40°	7809.5	7712.9	7266.4	6425.3	6031.0	6265.4	6282.8	6409.5	6412.7	6184.6	6054.8
42.5°	9478.9	9439.3	8968.8	7649.6	6526.7	6447.5	6479.2	6693.0	6932.1	6789.6	6783.3
45°	11327.2	11306.6	10807.6	9274.6	7529.2	7044.6	7084.2	7370.9	7828.5	7860.2	8061.4
47.5°	12814.3	12804.8	12518.1	11087.9	9063.9	8056.7	8069.3	8373.4	9178.0	9575.5	9896.9
50°	14170.0	14215.9	13989.4	13050.2	11154.4	9642.0	9611.9	9814.6	11106.9	11757.9	12157.0
52.5°	16054.7	16119.6	15484.5	14881.1	13348.0	11609.0	11585.3	11797.5	13425.7	13913.4	13984.7
55°	17719.2	17608.3	17106.3	16932.1	16023.0	14038.5	14032.2	14219.0	15668.3	15875.7	16007.2
57.5°	18454.1	18411.3	18653.6	19052.8	18824.7	16909.9	16895.7	16753.1	17674.9	17697.1	18100.9
60°	18918.1	18970.4	19713.1	20943.8	21512.3	19999.9	19908.0	19038.5	19591.2	19542.1	19974.5
62.5°	18569.7	18672.6	20009.4	22060.4	23523.7	22697.0	22567.1	21132.3	21228.9	21059.4	21461.6
65°	16719.9	16879.8	19070.2	21849.6	24521.5	24805.0	24673.5	22980.5	22529.1	22250.4	22027.1
67.5°	13576.1	13671.1	15958.1	20017.3	24071.7	26062.5	26035.5	24600.7	23511.1	22049.3	20316.6
69°	11219.4	11312.9	13514.3	18088.2	23081.9	26331.8	26384.0	25120.2	23324.2	20826.5	18001.1
70°	9502.6	9602.4	11653.4	16434.7	21933.7	26206.7	26300.1	25071.0	22788.8	19410.7	15969.1
72.5°	4984.2	5069.7	7174.5	11322.4	17880.8	24063.8	24347.3	22951.9	19317.2	14097.1	9442.4
75°	1566.3	1615.5	2801.7	5918.6	12242.5	18710.7	18775.6	18004.3	13717.0	7754.1	3932.5
77.5°	597.1	582.9	932.9	2180.8	6189.4	11781.7	12179.1	11251.1	7198.3	2741.5	907.5
80°	321.5	323.1	484.6	902.8	2648.0	6054.8	6390.5	5452.9	2557.8	855.3	209.0
82.5°	139.4	145.7	272.4	478.3	1216.3	2233.1	2401.0	1998.7	977.2	575.0	77.6
85°	30.1	33.3	131.4	259.7	495.7	627.2	657.3	647.8	622.5	446.6	30.1
87.5°	0.0	0.0	58.6	93.4	125.1	142.5	125.1	163.1	343.6	300.9	15.8
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°	3384.5	3384.5	3384.5	3384.5	3384.5	3384.5	3384.5	3384.5	3384.5	3384.5	3384.5
2.5°	3387.7	3359.2	3310.1	3256.2	3218.2	3178.6	3147.0	3132.7	3116.9	3105.8	3120.0
5°	3381.3	3325.9	3230.9	3139.0	3072.5	3018.7	2974.3	2956.9	2939.5	2926.8	2925.2
7.5°	3436.8	3359.2	3213.5	3078.9	2975.9	2903.1	2842.9	2817.6	2797.0	2787.5	2779.6
10°	3542.9	3443.1	3248.3	3072.5	2939.5	2816.0	2686.1	2586.3	2521.3	2491.2	2480.2
12.5°	3680.6	3555.5	3314.8	3105.8	2912.6	2675.0	2399.4	2161.8	2008.2	1957.6	1927.5
15°	3842.3	3687.0	3401.9	3148.5	2814.4	2380.4	1913.2	1602.7	1460.2	1431.7	1400.0
17.5°	3997.5	3826.4	3506.4	3156.5	2598.9	1902.1	1401.6	1191.0	1135.6	1154.6	1159.3
20°	4133.6	3964.2	3609.4	3086.8	2207.8	1426.9	1084.9	1032.6	1053.2	1089.6	1096.0
22.5°	4271.4	4097.2	3704.4	2903.1	1707.3	1083.3	977.2	989.9	1010.4	1046.9	1053.2
25°	4439.3	4258.8	3793.2	2565.7	1281.3	921.8	928.1	947.1	967.7	1000.9	1004.1
27.5°	4632.5	4463.0	3851.8	2127.0	950.3	847.3	867.9	896.4	917.0	948.7	955.0
30°	4889.1	4732.3	3870.8	1672.5	796.7	780.8	790.3	825.2	855.3	883.8	888.5
32.5°	5129.8	4998.4	3807.4	1262.2	738.1	719.1	719.1	739.6	774.5	801.4	807.7
35°	5351.6	5266.0	3604.6	923.3	693.7	662.1	646.2	646.2	668.4	690.6	696.9
37.5°	5644.5	5641.4	3276.8	736.5	651.0	614.5	581.3	555.9	548.0	552.8	555.9
40°	6146.6	6151.4	2849.2	660.5	614.5	565.4	514.7	468.8	426.0	411.7	410.2
42.5°	6930.5	6859.3	2401.0	624.0	582.9	514.7	438.7	376.9	310.4	289.8	288.2
45°	8175.4	7752.5	1925.9	590.8	549.6	457.7	362.7	278.7	224.9	209.0	209.0
47.5°	9988.8	8926.1	1491.9	554.4	505.2	392.7	274.0	201.1	164.7	156.8	158.4
50°	11864.0	10075.9	1143.5	508.3	451.3	324.6	202.7	145.7	125.1	125.1	126.7
52.5°	13527.0	10918.5	891.7	459.3	384.8	255.0	153.6	114.0	104.5	102.9	104.5
55°	15083.8	11461.8	682.6	402.2	305.6	190.0	117.2	93.4	87.1	83.9	82.3
57.5°	16585.3	11731.0	511.5	324.6	221.7	137.8	93.4	79.2	72.8	68.1	66.5
60°	17584.5	11512.4	351.6	239.1	153.6	99.8	77.6	68.1	60.2	55.4	53.8
62.5°	18148.4	10915.3	226.5	172.6	109.3	74.4	61.8	57.0	45.9	41.2	41.2
65°	17920.4	9930.2	158.4	123.5	79.2	55.4	45.9	45.9	33.3	26.9	25.3
67.5°	15880.5	8389.2	120.4	91.9	57.0	41.2	34.8	39.6	20.6	12.7	12.7
69°	13663.2	6952.8	102.9	76.0	47.5	33.3	30.1	36.4	14.3	9.5	7.9
70°	11875.1	5997.8	93.4	66.5	39.6	28.5	26.9	34.8	14.3	7.9	6.3
72.5°	7104.8	3344.9	71.3	47.5	25.3	22.2	22.2	39.6	14.3	7.9	6.3
75°	2871.4	1178.3	52.3	33.3	19.0	19.0	26.9	50.7	12.7	6.3	4.8
77.5°	651.0	258.1	30.1	20.6	12.7	19.0	31.7	39.6	7.9	3.2	0.0
80°	158.4	63.3	19.0	12.7	7.9	14.3	23.8	22.2	1.6	0.0	0.0
82.5°	52.3	22.2	7.9	6.3	1.6	4.8	11.1	6.3	0.0	0.0	0.0
85°	22.2	12.7	3.2	1.6	0.0	0.0	1.6	0.0	0.0	0.0	0.0
87.5°	14.3	4.8	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)