

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: P323004

Luminaire Tested: **GLEON-SA0B-827-U-T4W-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323004
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-SA0B-827-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 80 CRI, 2700K, 800mA 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: 30138 lumens
Efficiency: N/A
Efficacy: 71.9 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

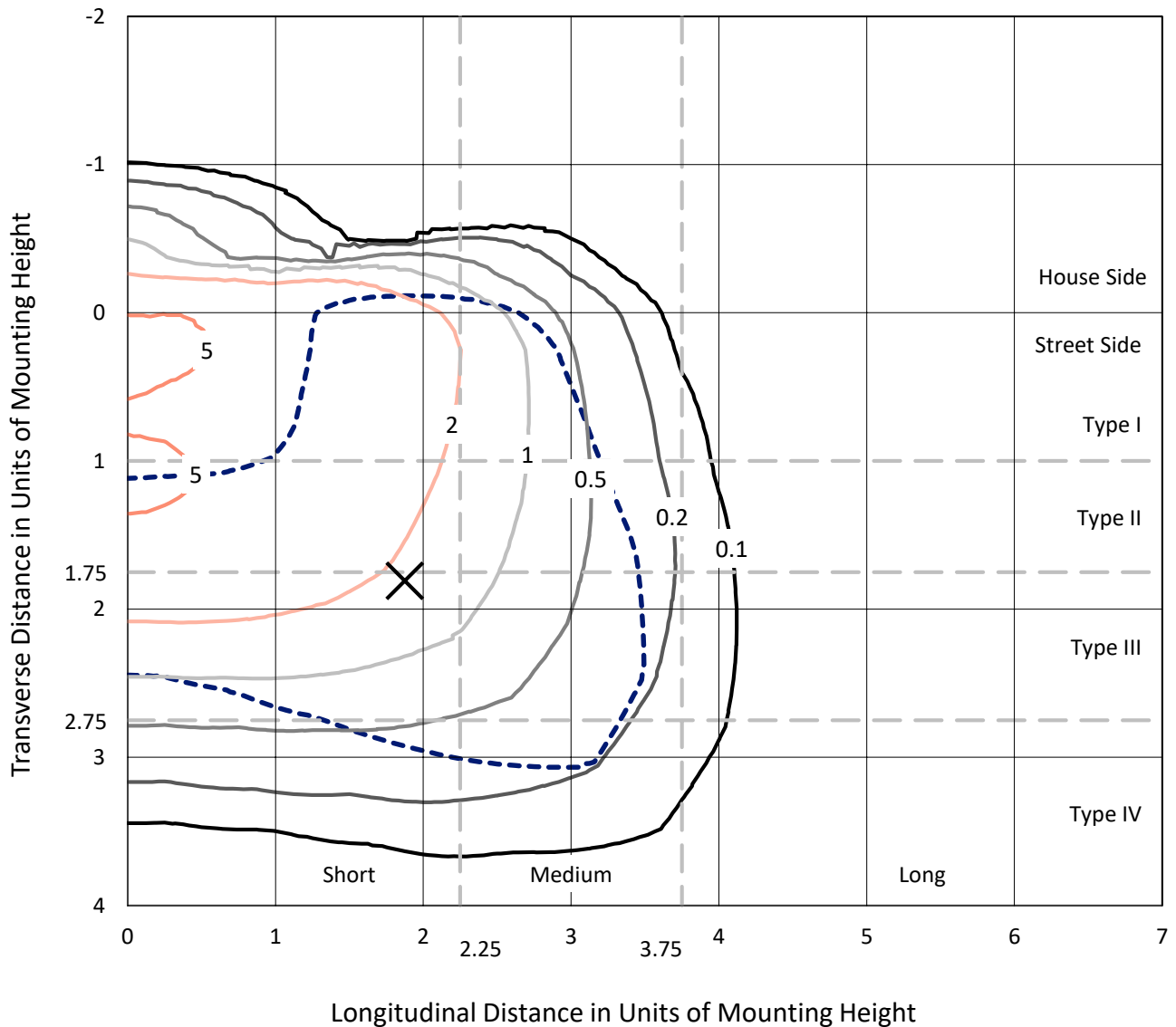
Input Watts (W): 419
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

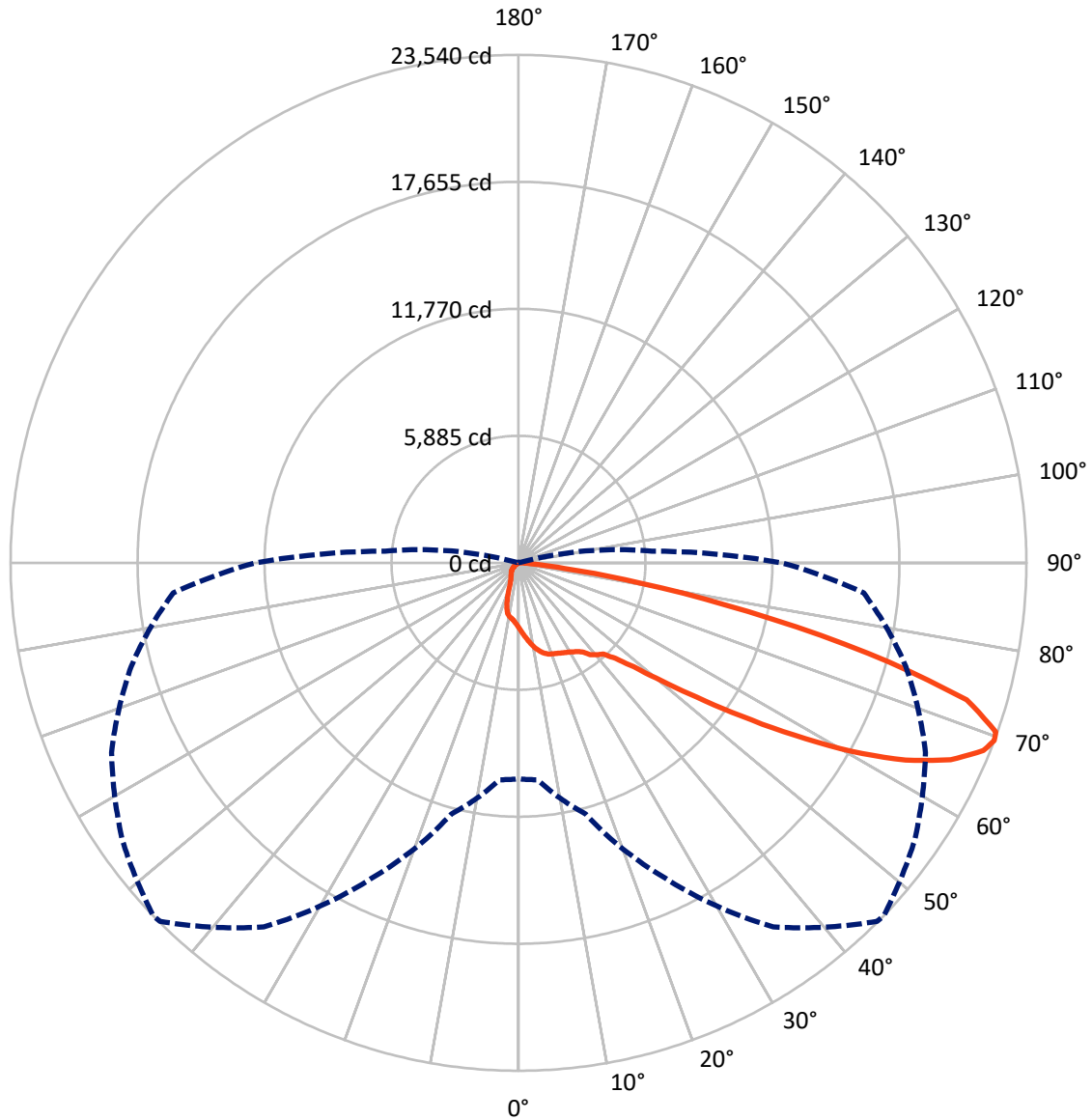
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7 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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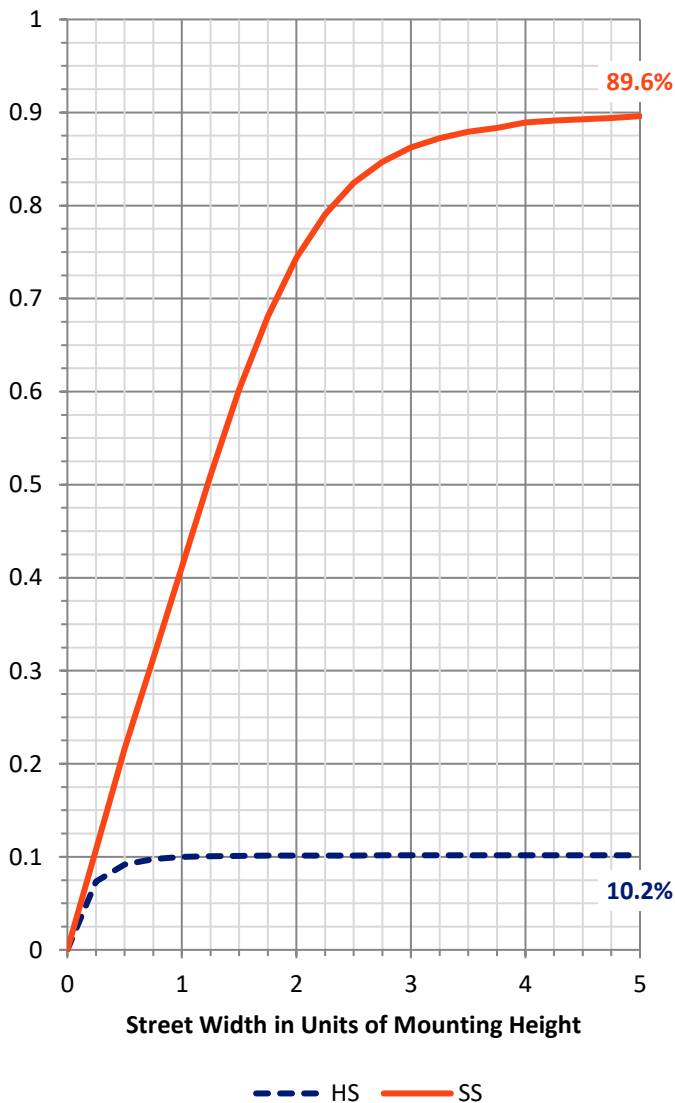
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3093.0	0.0	3093.0
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	27045.0	0.0	27045.0
	% Fixture	89.7	0.0	89.7
Total	Lumens	30138.0	0.0	30138.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	300.6	1.0
10°-20°	911.8	3.0
20°-30°	1434.0	4.8
30°-40°	2056.4	6.8
40°-50°	3554.2	11.8
50°-60°	7021.7	23.3
60°-70°	9813.5	32.6
70°-80°	4741.0	15.7
80°-90°	304.7	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°	30138.0	100.0
0°-180°	30138.0	100.0



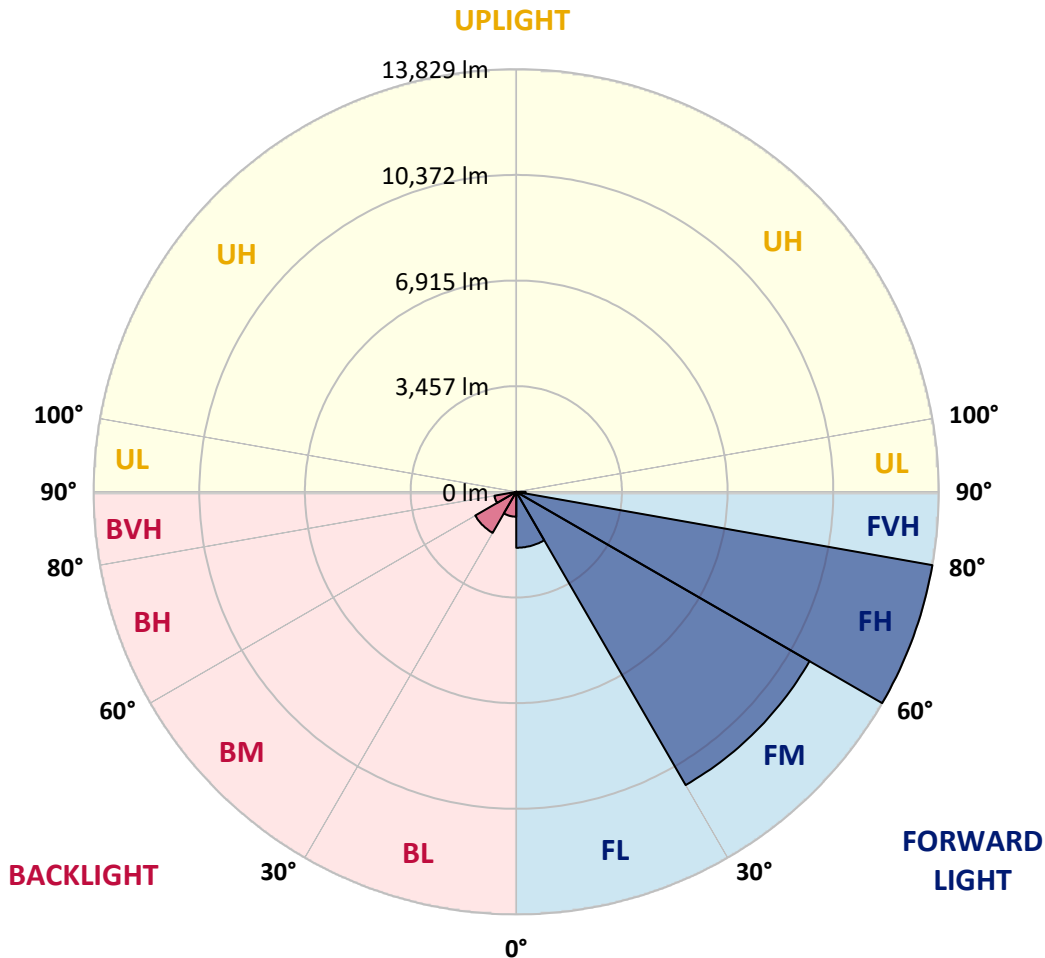
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1831.2	6.1			
FM (30°-60°)	11082.4	36.8			
FH (60°-80°)	13829.2	45.9			G5
FVH (80°-90°)	302.2	1.0			G3/500
BL (0°-30°)	815.2	2.7	B2/1000		
BM (30°-60°)	1550.0	5.1	B2/2500		
BH (60°-80°)	725.2	2.4	B2/1000		G2/1000
BVH (80°-90°)	2.6	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°	3019.7	3019.7	3019.7	3019.7	3019.7	3019.7	3019.7	3019.7	3019.7	3019.7	3019.7
2.5°	3354.6	3350.4	3330.6	3322.1	3274.1	3245.8	3234.5	3199.2	3148.3	3097.4	3040.9
5°	3736.1	3734.7	3698.0	3662.7	3572.2	3487.4	3471.9	3389.9	3275.5	3168.1	3060.7
7.5°	4126.1	4107.8	4071.0	4003.2	3871.8	3736.1	3723.4	3607.5	3445.0	3289.6	3135.6
10°	4456.8	4445.5	4397.5	4294.3	4140.3	3986.2	3970.7	3828.0	3644.3	3453.5	3257.1
12.5°	4714.0	4705.5	4641.9	4513.3	4349.4	4189.7	4168.5	4041.4	3844.9	3631.6	3399.8
15°	4870.8	4866.6	4788.9	4651.8	4490.7	4352.2	4333.9	4222.2	4039.9	3816.7	3555.3
17.5°	4907.6	4909.0	4828.4	4690.0	4557.1	4458.2	4444.1	4359.3	4206.7	3984.8	3710.7
20°	4825.6	4842.6	4770.5	4650.4	4568.4	4516.1	4504.8	4454.0	4325.4	4116.3	3835.1
22.5°	4709.7	4718.2	4668.8	4588.2	4554.3	4564.2	4558.5	4530.3	4421.5	4229.3	3958.0
25°	4639.1	4639.1	4609.4	4541.6	4564.2	4625.0	4626.4	4620.7	4534.5	4367.8	4107.8
27.5°	4636.3	4627.8	4593.9	4543.0	4605.2	4698.4	4704.1	4742.2	4688.5	4535.9	4294.3
30°	4749.3	4739.4	4667.3	4600.9	4680.1	4780.4	4794.5	4877.9	4851.0	4718.2	4502.0
32.5°	5013.5	4978.2	4818.5	4709.7	4769.1	4889.2	4907.6	5040.4	5082.8	4942.9	4702.7
35°	5375.3	5263.7	5033.3	4916.0	4921.7	5047.5	5064.4	5259.4	5385.2	5149.2	4858.1
37.5°	5874.1	5819.0	5444.5	5130.8	5156.3	5347.0	5396.5	5608.4	5573.1	5262.2	5034.7
40°	6967.8	6881.6	6483.1	5732.8	5380.9	5590.1	5605.6	5718.7	5721.5	5518.0	5402.1
42.5°	8457.2	8421.9	8002.2	6825.1	5823.2	5752.6	5780.8	5971.6	6185.0	6057.8	6052.1
45°	10106.2	10087.9	9642.7	8274.9	6717.7	6285.3	6320.6	6576.4	6984.8	7013.0	7192.5
47.5°	11433.1	11424.6	11168.8	9892.9	8087.0	7188.2	7199.6	7470.9	8188.7	8543.4	8830.2
50°	12642.7	12683.7	12481.6	11643.6	9952.2	8602.7	8575.9	8756.7	9909.8	10490.6	10846.7
52.5°	14324.2	14382.2	13815.5	13277.1	11909.3	10357.7	10336.6	10525.9	11978.5	12413.8	12477.3
55°	15809.3	15710.4	15262.5	15107.1	14296.0	12525.4	12519.7	12686.5	13979.4	14164.5	14281.8
57.5°	16465.0	16426.9	16643.1	16999.1	16795.7	15087.3	15074.6	14947.4	15769.8	15789.6	16149.9
60°	16879.0	16925.7	17588.4	18686.3	19193.6	17844.2	17762.2	16986.4	17479.6	17435.8	17821.5
62.5°	16568.2	16660.0	17852.6	19682.6	20988.2	20250.6	20134.7	18854.5	18940.7	18789.5	19148.4
65°	14917.7	15060.4	17014.7	19494.6	21878.4	22131.4	22014.1	20503.5	20100.8	19852.1	19652.9
67.5°	12112.8	12197.6	14238.0	17859.7	21477.1	23253.4	23229.3	21949.1	20976.9	19672.7	18126.8
69°	10010.1	10093.5	12057.7	16138.6	20594.0	23493.6	23540.2	22412.6	20810.2	18581.8	16060.9
70°	8478.4	8567.4	10397.3	14663.4	19569.5	23381.9	23465.3	22368.8	20332.6	17318.5	14247.9
72.5°	4446.9	4523.2	6401.2	10102.0	15953.5	21470.1	21723.0	20478.1	17235.1	12577.7	8424.7
75°	1397.5	1441.3	2499.7	5280.6	10923.0	16693.9	16751.9	16063.7	12238.5	6918.4	3508.6
77.5°	532.7	520.0	832.3	1945.8	5522.2	10511.8	10866.5	10038.4	6422.4	2446.0	809.7
80°	286.9	288.3	432.4	805.4	2362.6	5402.1	5701.7	4865.2	2282.1	763.1	186.5
82.5°	124.3	130.0	243.0	426.7	1085.2	1992.4	2142.2	1783.3	871.9	512.9	69.2
85°	26.8	29.7	117.3	231.7	442.3	559.6	586.4	577.9	555.3	398.5	26.8
87.5°	0.0	0.0	52.3	83.4	111.6	127.2	111.6	145.5	306.6	268.5	14.1
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°	3019.7	3019.7	3019.7	3019.7	3019.7	3019.7	3019.7	3019.7	3019.7	3019.7	3019.7
2.5°	3022.5	2997.1	2953.3	2905.3	2871.3	2836.0	2807.8	2795.0	2780.9	2771.0	2783.7
5°	3016.9	2967.4	2882.6	2800.7	2741.3	2693.3	2653.7	2638.2	2622.6	2611.3	2609.9
7.5°	3066.3	2997.1	2867.1	2747.0	2655.1	2590.1	2536.4	2513.8	2495.5	2487.0	2479.9
10°	3161.0	3072.0	2898.2	2741.3	2622.6	2512.4	2396.6	2307.5	2249.6	2222.7	2212.9
12.5°	3284.0	3172.3	2957.5	2771.0	2598.6	2386.7	2140.8	1928.8	1791.8	1746.5	1719.7
15°	3428.1	3289.6	3035.3	2809.2	2511.0	2123.8	1707.0	1430.0	1302.8	1277.4	1249.1
17.5°	3566.6	3414.0	3128.5	2816.2	2318.8	1697.1	1250.6	1062.6	1013.2	1030.1	1034.4
20°	3688.1	3536.9	3220.4	2754.1	1969.8	1273.2	967.9	921.3	939.7	972.2	977.8
22.5°	3811.0	3655.6	3305.2	2590.1	1523.3	966.5	871.9	883.2	901.5	934.0	939.7
25°	3960.8	3799.7	3384.3	2289.2	1143.2	822.4	828.1	845.0	863.4	893.1	895.9
27.5°	4133.2	3982.0	3436.6	1897.7	847.8	756.0	774.4	799.8	818.2	846.4	852.1
30°	4362.1	4222.2	3453.5	1492.2	710.8	696.6	705.1	736.2	763.1	788.5	792.7
32.5°	4576.9	4459.6	3397.0	1126.2	658.5	641.5	641.5	659.9	691.0	715.0	720.7
35°	4774.7	4698.4	3216.1	823.8	618.9	590.7	576.5	576.5	596.3	616.1	621.7
37.5°	5036.2	5033.3	2923.6	657.1	580.8	548.3	518.6	496.0	488.9	493.2	496.0
40°	5484.1	5488.3	2542.1	589.2	548.3	504.5	459.2	418.3	380.1	367.4	366.0
42.5°	6183.6	6120.0	2142.2	556.7	520.0	459.2	391.4	336.3	277.0	258.6	257.2
45°	7294.2	6916.9	1718.3	527.1	490.3	408.4	323.6	248.7	200.7	186.5	186.5
47.5°	8912.2	7964.0	1331.1	494.6	450.8	350.4	244.5	179.5	147.0	139.9	141.3
50°	10585.3	8989.9	1020.2	453.6	402.7	289.7	180.9	130.0	111.6	111.6	113.0
52.5°	12069.0	9741.7	795.6	409.8	343.4	227.5	137.1	101.7	93.3	91.8	93.3
55°	13458.0	10226.3	609.0	358.9	272.7	169.6	104.6	83.4	77.7	74.9	73.5
57.5°	14797.6	10466.6	456.4	289.7	197.8	122.9	83.4	70.7	65.0	60.8	59.3
60°	15689.2	10271.6	313.7	213.4	137.1	89.0	69.2	60.8	53.7	49.5	48.0
62.5°	16192.3	9738.8	202.1	154.0	97.5	66.4	55.1	50.9	41.0	36.7	36.7
65°	15988.8	8859.9	141.3	110.2	70.7	49.5	41.0	41.0	29.7	24.0	22.6
67.5°	14168.8	7485.0	107.4	82.0	50.9	36.7	31.1	35.3	18.4	11.3	11.3
69°	12190.5	6203.3	91.8	67.8	42.4	29.7	26.8	32.5	12.7	8.5	7.1
70°	10595.1	5351.3	83.4	59.3	35.3	25.4	24.0	31.1	12.7	7.1	5.7
72.5°	6339.0	2984.4	63.6	42.4	22.6	19.8	19.8	35.3	12.7	7.1	5.7
75°	2561.9	1051.3	46.6	29.7	17.0	17.0	24.0	45.2	11.3	5.7	4.2
77.5°	580.8	230.3	26.8	18.4	11.3	17.0	28.3	35.3	7.1	2.8	0.0
80°	141.3	56.5	17.0	11.3	7.1	12.7	21.2	19.8	1.4	0.0	0.0
82.5°	46.6	19.8	7.1	5.7	1.4	4.2	9.9	5.7	0.0	0.0	0.0
85°	19.8	11.3	2.8	1.4	0.0	0.0	1.4	0.0	0.0	0.0	0.0
87.5°	12.7	4.2	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)