

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: P322382

Luminaire Tested: **GLEON-SA8D-827-U-T3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322382
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-SA8D-827-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 2700K, 1200mA 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: 33313 lumens
Efficiency: N/A
Efficacy: 65.2 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

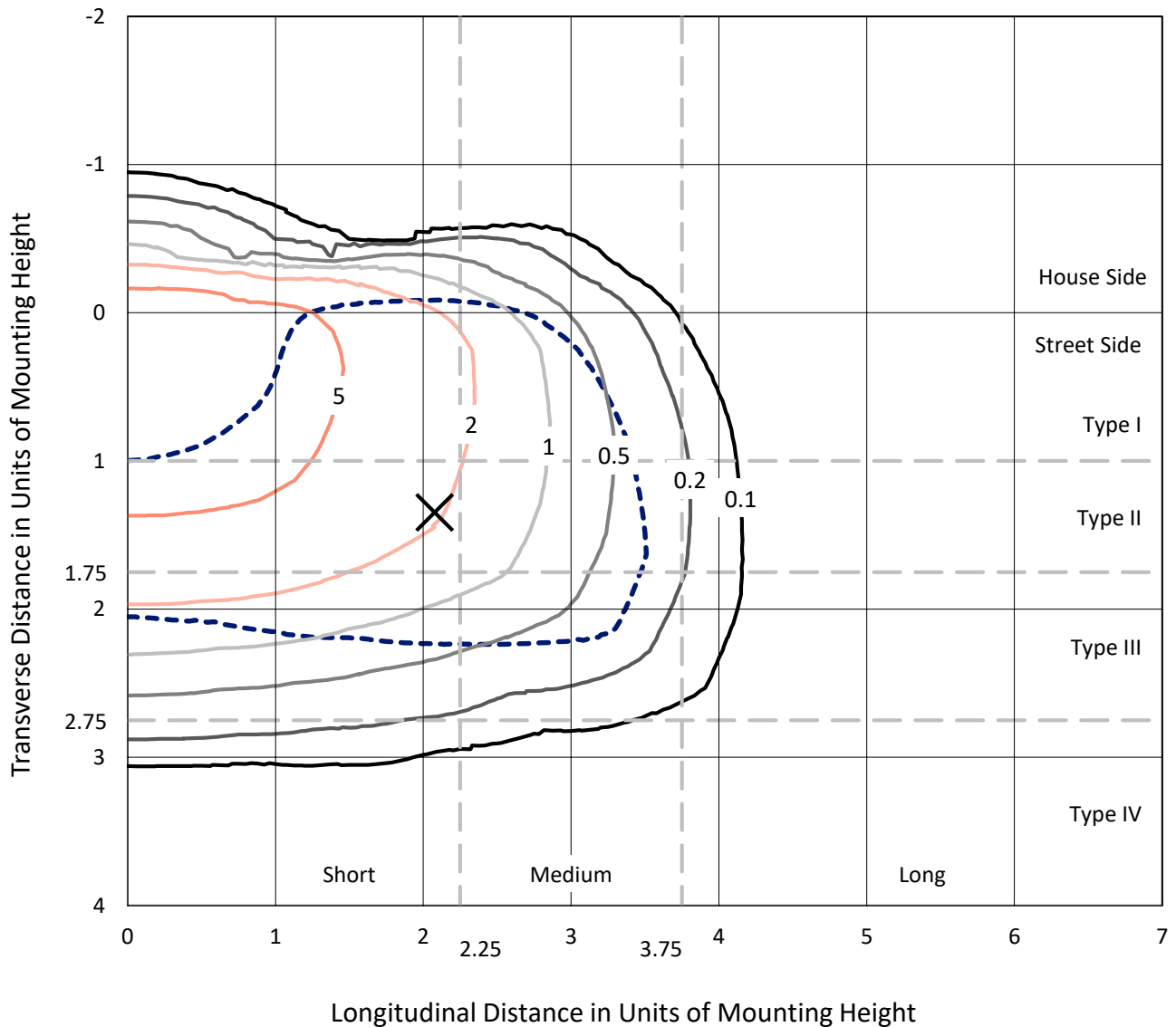
Input Watts (W): 511
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

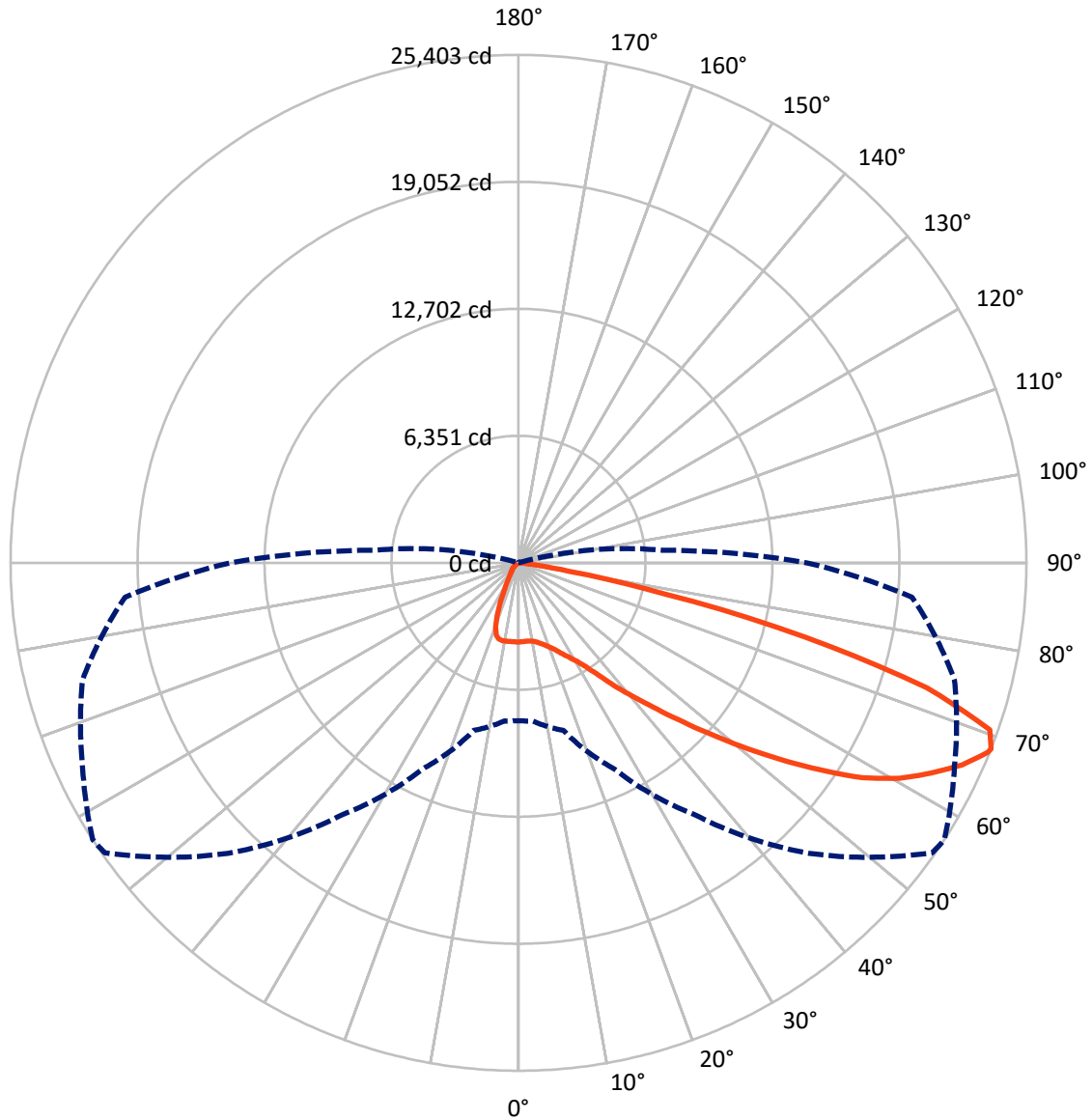
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.2 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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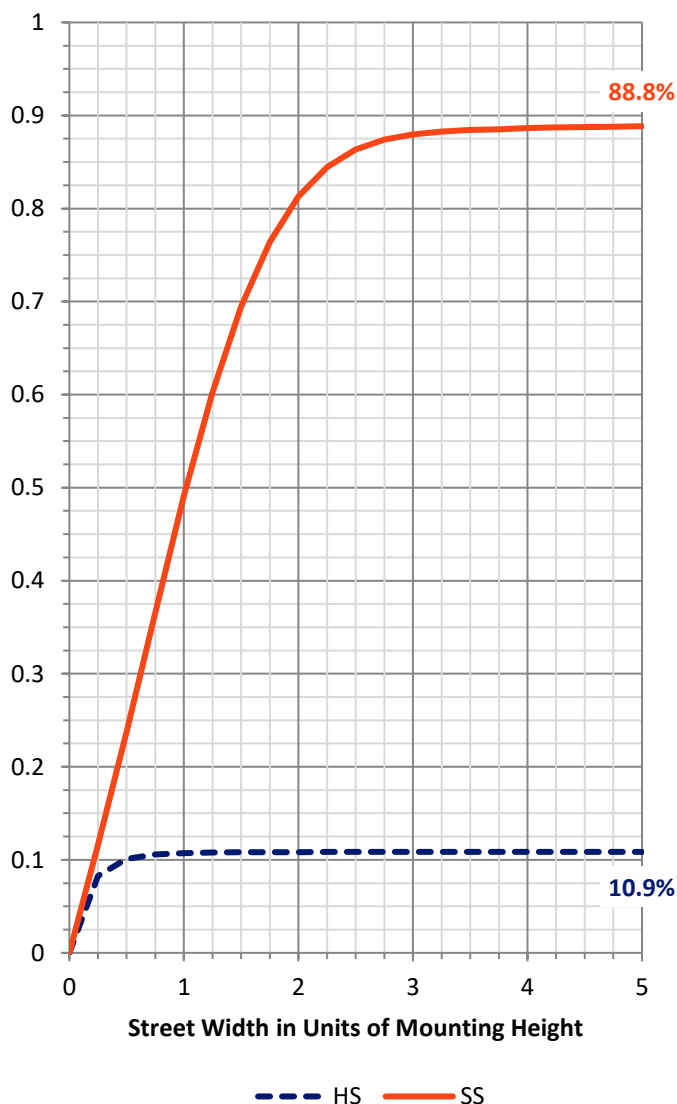
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3653.0	0.0	3653.0
	% Fixture	11.0	0.0	11.0
Street Side	Lumens	29660.0	0.0	29660.0
	% Fixture	89.0	0.0	89.0
Total	Lumens	33313.0	0.0	33313.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	370.5	1.1
10°-20°	1026.6	3.1
20°-30°	1770.9	5.3
30°-40°	3056.5	9.2
40°-50°	5228.2	15.7
50°-60°	8364.6	25.1
60°-70°	9664.4	29.0
70°-80°	3692.9	11.1
80°-90°	138.4	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°	33313.0	100.0
0°-180°	33313.0	100.0

Coefficient of Utilization



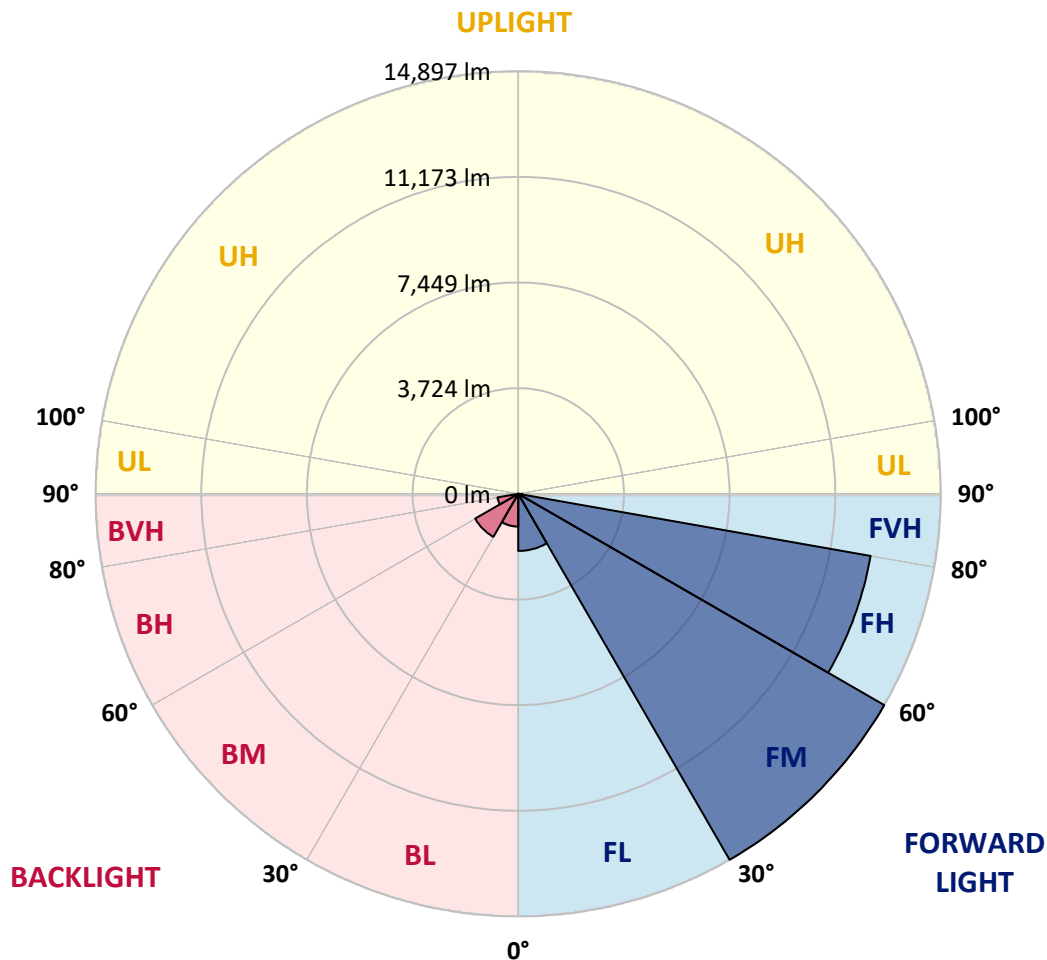
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2013.5	6.0			
FM (30°-60°)	14897.3	44.7			
FH (60°-80°)	12613.4	37.9			G5
FVH (80°-90°)	135.9	0.4			G2/225
BL (0°-30°)	1154.5	3.5	B3/2500		
BM (30°-60°)	1752.0	5.3	B2/2500		
BH (60°-80°)	744.0	2.2	B2/1000		G2/1000
BVH (80°-90°)	2.5	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	3958.5	3958.5	3958.5	3958.5	3958.5	3958.5	3958.5	3958.5	3958.5	3958.5	3958.5
2.5°	3865.5	3882.9	3895.5	3903.3	3912.8	3933.3	3939.6	3949.0	3953.7	3953.7	3964.8
5°	3712.7	3731.6	3758.4	3780.5	3824.6	3881.3	3922.2	3938.0	3966.3	3991.5	4005.7
7.5°	3571.0	3593.0	3624.5	3676.5	3752.1	3843.5	3928.5	3950.6	4005.7	4059.3	4086.1
10°	3479.6	3496.9	3537.9	3611.9	3711.2	3838.7	3958.5	3985.2	4079.8	4169.5	4219.9
12.5°	3448.1	3463.9	3506.4	3589.9	3712.7	3862.4	4027.8	4067.2	4205.8	4336.5	4407.4
15°	3493.8	3496.9	3542.6	3621.4	3742.7	3920.7	4142.8	4190.0	4364.9	4535.0	4623.2
17.5°	3670.2	3656.0	3679.7	3714.3	3810.4	3997.8	4264.1	4334.9	4568.1	4768.1	4851.6
20°	4111.3	4111.3	4057.7	3963.2	3964.8	4117.6	4427.9	4508.2	4793.3	5024.9	5100.5
22.5°	4865.8	4851.6	4744.5	4512.9	4300.3	4323.9	4627.9	4731.9	5064.2	5311.6	5336.8
25°	5773.1	5755.8	5590.4	5264.3	4895.7	4657.8	4898.9	5018.6	5387.2	5606.1	5554.1
27.5°	6734.0	6719.8	6556.0	6151.1	5626.6	5190.3	5221.8	5335.2	5716.4	5932.2	5766.8
30°	7664.9	7669.6	7507.4	7091.5	6497.7	5869.2	5631.3	5697.5	6036.1	6255.1	6018.8
32.5°	8550.2	8556.5	8416.3	7951.6	7397.1	6658.3	6198.4	6181.1	6407.9	6623.7	6352.8
35°	9339.3	9355.1	9259.0	8898.3	8310.7	7537.3	6934.0	6893.0	6935.6	7179.7	6864.7
37.5°	10100.1	10109.6	10037.1	9733.1	9241.7	8502.9	7863.4	7805.1	7713.7	7901.2	7540.5
40°	10933.4	10909.8	10826.3	10550.6	10128.5	9569.3	8862.0	8761.2	8602.1	8769.1	8428.9
42.5°	11708.4	11681.6	11695.8	11383.9	11027.9	10665.6	10026.1	9852.8	9759.9	9952.1	9518.9
45°	12677.2	12663.0	12710.2	12439.3	12151.0	11888.0	11360.3	11171.3	11130.3	11355.6	10837.3
47.5°	13633.3	13668.0	13814.5	13699.5	13582.9	13351.3	12773.2	12688.2	12713.4	12985.9	12228.2
50°	14430.4	14471.3	14873.0	15005.3	15173.8	15038.4	14458.7	14406.7	14506.0	14751.7	13724.7
52.5°	15006.9	15090.4	15589.7	16199.3	16813.6	16905.0	16326.9	16279.6	16413.5	16451.3	14880.9
55°	15407.0	15481.0	16046.5	17161.7	18412.4	18806.2	18447.1	18264.4	18239.2	17865.9	16096.9
57.5°	15477.9	15470.0	16282.8	17783.9	19666.3	20682.3	20455.5	20275.9	19759.2	19173.3	17491.0
60°	15077.8	15123.4	16067.0	17999.7	20453.9	22101.5	22118.9	21885.7	21080.8	20444.4	18842.5
62.5°	13846.0	14031.8	14984.8	17434.2	20444.4	22673.3	23338.1	23160.1	22197.6	21485.6	20212.9
65°	11848.6	11914.8	12823.7	15496.8	19063.0	22433.9	24436.0	24369.8	23204.2	22496.9	20917.0
67.5°	8652.5	8509.2	9463.8	12203.0	16139.4	21038.3	25223.6	25307.1	23980.8	22704.8	20167.2
68°	7896.4	7939.0	8682.5	11388.7	15373.9	20545.3	25275.6	25403.2	24057.9	22569.4	19757.7
70°	4706.7	4788.6	5451.7	7841.3	11695.8	17755.6	24714.8	25006.2	23598.0	21172.2	17089.3
72.5°	1201.9	1299.5	1926.5	3509.5	6680.4	12510.2	20863.4	21356.5	20488.5	17175.9	11536.7
75°	494.6	519.8	688.4	1156.2	2488.8	5636.0	13751.4	14806.8	14203.5	10282.9	5213.9
77.5°	341.8	359.1	442.6	641.1	1077.4	1910.7	6741.8	7504.2	6760.7	3509.5	1137.3
80°	245.7	259.9	316.6	426.9	619.1	682.1	2197.4	2540.8	2017.8	770.3	282.0
82.5°	146.5	157.5	236.3	304.0	376.5	326.1	546.6	620.6	584.4	382.8	126.0
85°	72.5	85.1	159.1	217.4	203.2	137.0	167.0	185.9	230.0	233.1	67.7
87.5°	4.7	9.5	92.9	130.7	56.7	31.5	48.8	59.9	81.9	115.0	28.4
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°	3958.5	3958.5	3958.5	3958.5	3958.5	3958.5	3958.5	3958.5	3958.5	3958.5	3958.5
2.5°	3969.5	3971.1	3960.0	3955.3	3958.5	3939.6	3931.7	3934.8	3934.8	3939.6	3931.7
5°	4008.9	4008.9	3990.0	3964.8	3950.6	3914.4	3890.7	3884.4	3879.7	3876.6	3870.3
7.5°	4093.9	4084.5	4051.4	3996.3	3949.0	3870.3	3810.4	3778.9	3763.1	3756.8	3752.1
10°	4231.0	4213.6	4158.5	4056.1	3947.4	3807.2	3676.5	3583.6	3506.4	3474.9	3456.0
12.5°	4415.3	4390.1	4297.1	4127.0	3936.4	3678.1	3394.5	3122.0	2868.4	2764.5	2712.5
15°	4627.9	4591.7	4445.2	4186.9	3871.8	3386.7	2770.8	2293.5	1942.2	1809.9	1753.2
17.5°	4843.7	4796.5	4574.4	4224.7	3678.1	2783.4	1943.8	1468.1	1233.4	1170.4	1148.3
20°	5061.1	4991.8	4686.2	4196.3	3240.2	2006.8	1282.2	1072.7	1005.0	986.1	979.8
22.5°	5267.4	5160.3	4787.0	4086.1	2566.0	1346.8	1014.4	948.3	926.2	915.2	912.0
25°	5447.0	5297.4	4875.2	3745.8	1816.2	1017.6	913.6	891.6	863.2	842.7	844.3
27.5°	5615.6	5434.4	4928.8	3185.0	1211.3	869.5	845.9	816.0	764.0	734.0	734.0
30°	5818.8	5617.1	4968.2	2451.0	891.6	768.7	749.8	704.1	633.2	593.8	593.8
32.5°	6124.4	5894.4	4943.0	1720.1	738.8	675.8	631.7	568.6	491.5	453.7	452.1
35°	6592.2	6322.8	4763.4	1127.8	652.1	587.5	516.7	439.5	371.7	340.2	338.7
37.5°	7222.3	6896.2	4360.1	806.5	584.4	505.6	420.6	335.5	285.1	264.6	263.1
40°	8039.8	7562.5	3783.6	653.7	521.4	426.9	324.5	259.9	225.3	209.5	211.1
42.5°	9021.1	8276.1	3092.1	563.9	460.0	351.3	253.6	204.8	182.7	171.7	168.5
45°	10111.2	8980.2	2367.5	502.5	398.5	283.5	198.5	162.2	144.9	138.6	138.6
47.5°	11309.9	9665.4	1732.7	448.9	332.4	219.0	159.1	132.3	118.1	113.4	111.8
50°	12398.4	10141.1	1249.1	392.2	272.5	173.3	129.2	110.3	100.8	94.5	94.5
52.5°	13305.7	10290.7	919.9	330.8	220.5	138.6	107.1	94.5	85.1	80.3	80.3
55°	14104.3	10229.3	683.6	272.5	178.0	113.4	91.4	80.3	72.5	67.7	67.7
57.5°	14869.8	10030.8	510.4	222.1	143.3	91.4	77.2	67.7	59.9	56.7	56.7
60°	15495.2	9700.0	379.6	179.6	115.0	74.0	64.6	55.1	48.8	44.1	44.1
62.5°	16002.4	9334.6	278.8	148.1	91.4	58.3	50.4	45.7	36.2	31.5	31.5
65°	16005.5	8728.2	209.5	122.9	70.9	45.7	37.8	36.2	23.6	18.9	17.3
67.5°	14847.8	7524.7	160.7	105.5	55.1	34.7	28.4	29.9	12.6	7.9	6.3
68°	14427.2	7219.1	151.2	104.0	52.0	33.1	26.8	29.9	11.0	6.3	4.7
70°	12163.6	5743.2	121.3	100.8	45.7	25.2	22.1	29.9	9.5	4.7	3.2
72.5°	7779.9	3333.1	89.8	80.3	34.7	18.9	14.2	26.8	9.5	3.2	1.6
75°	3311.1	1033.3	61.4	56.7	20.5	14.2	9.5	17.3	6.3	1.6	0.0
77.5°	697.8	233.1	36.2	34.7	14.2	9.5	6.3	4.7	1.6	0.0	0.0
80°	179.6	67.7	18.9	17.3	7.9	4.7	3.2	0.0	0.0	0.0	0.0
82.5°	56.7	26.8	11.0	7.9	3.2	0.0	0.0	0.0	0.0	0.0	0.0
85°	28.4	15.8	6.3	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	15.8	4.7	1.6	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)