

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: P319807

Luminaire Tested: **GLEON-SA3C-827-U-SL3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319807
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-22)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA3C-827-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15876 lumens
Efficiency: N/A
Efficacy: 95.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

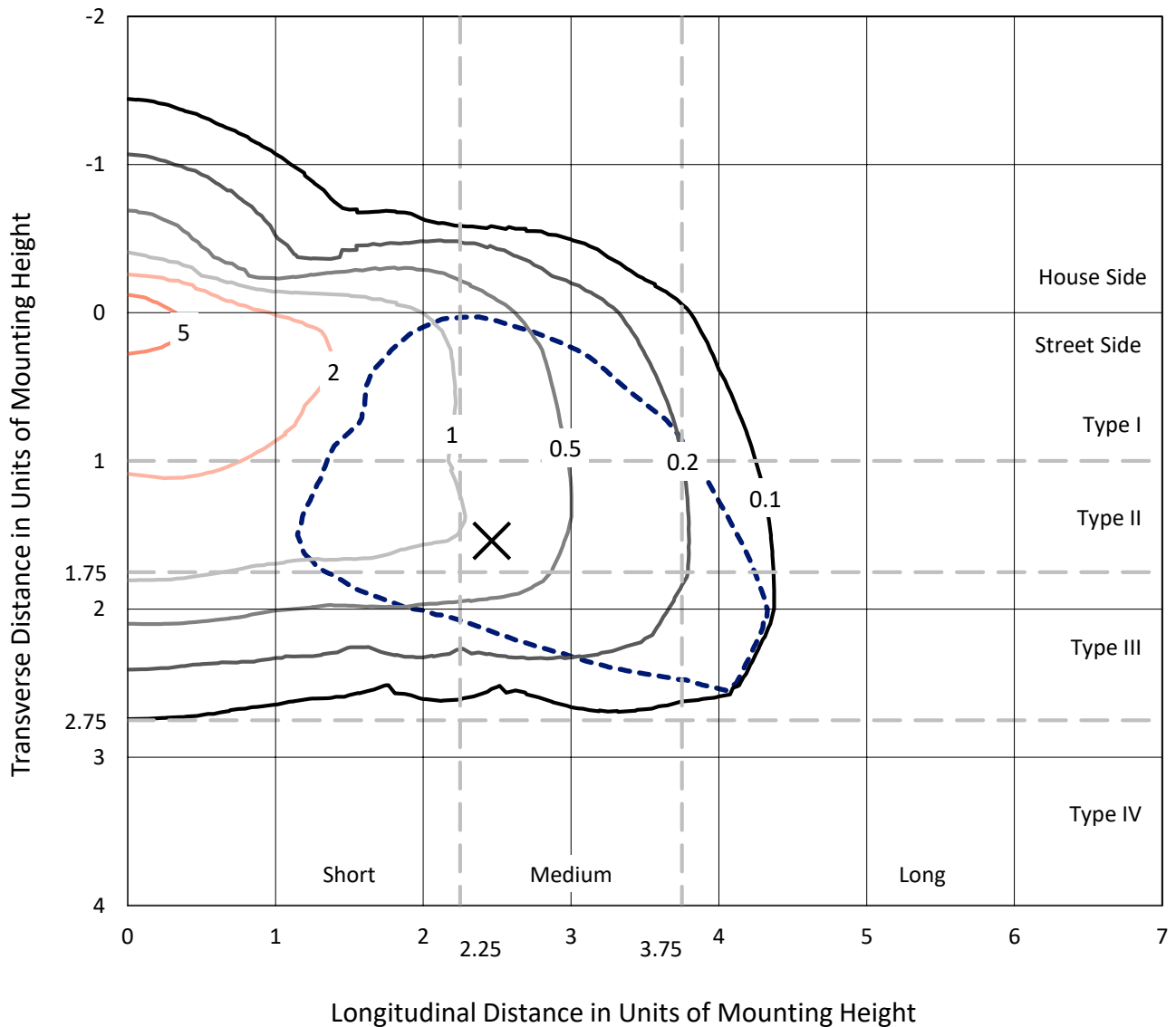
Input Watts (W): 166
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

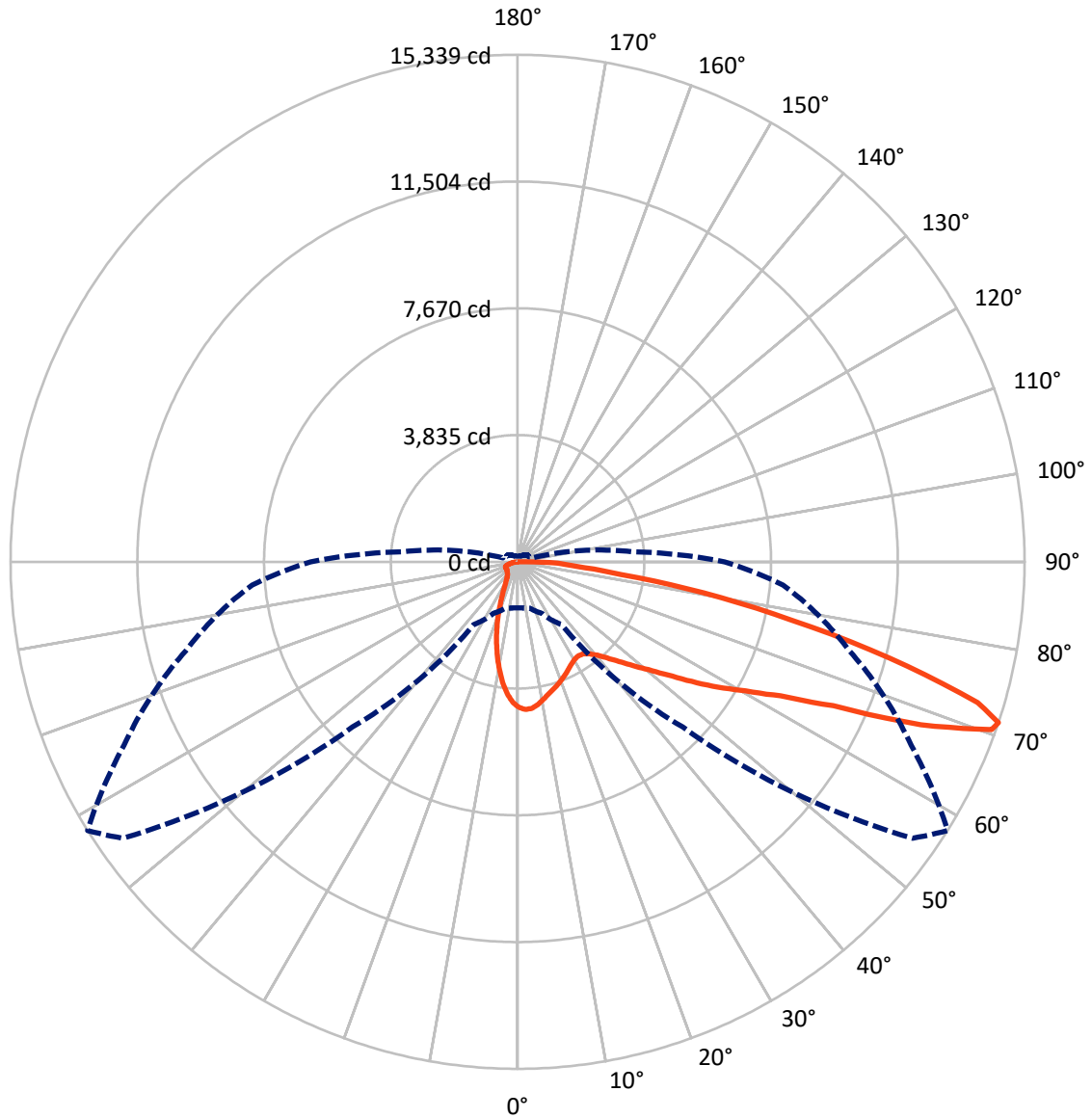
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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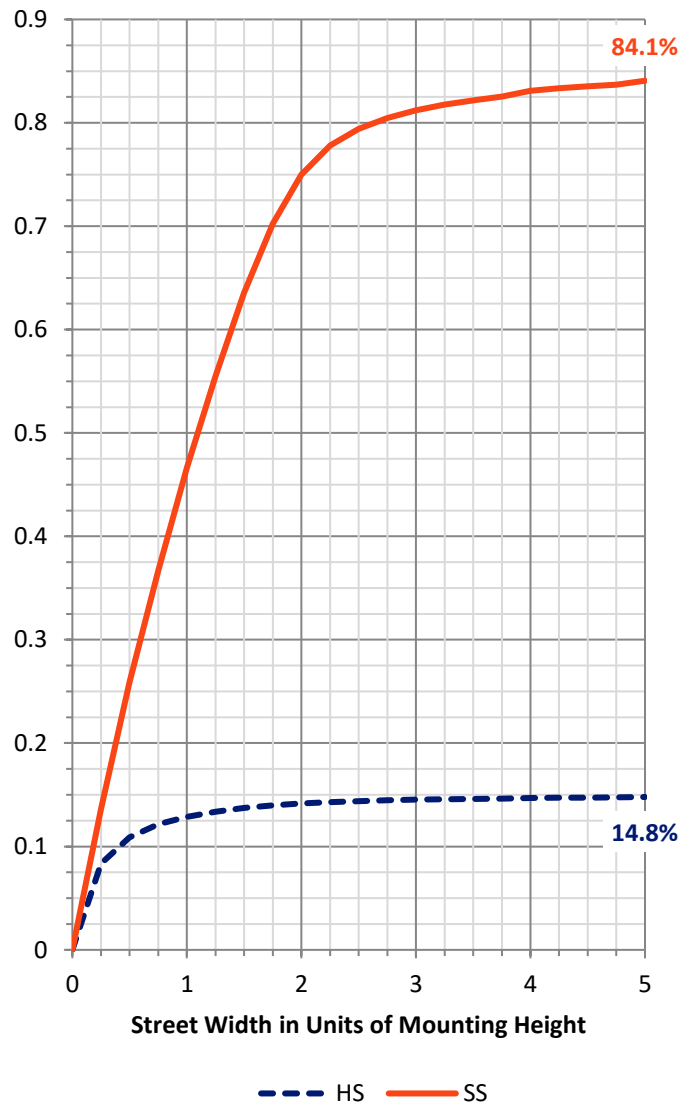
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2373.6	0.0	2373.6
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	13502.4	0.0	13502.4
	% Fixture	85.0	0.0	85.0
Total	Lumens	15876.0	0.0	15876.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	379.5	2.4
10°-20°	843.8	5.3
20°-30°	1072.4	6.8
30°-40°	1366.0	8.6
40°-50°	1937.1	12.2
50°-60°	2997.7	18.9
60°-70°	4081.0	25.7
70°-80°	2722.5	17.1
80°-90°	476.0	3.0
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°	15876.0	100.0
0°-180°	15876.0	100.0

Coefficient of Utilization



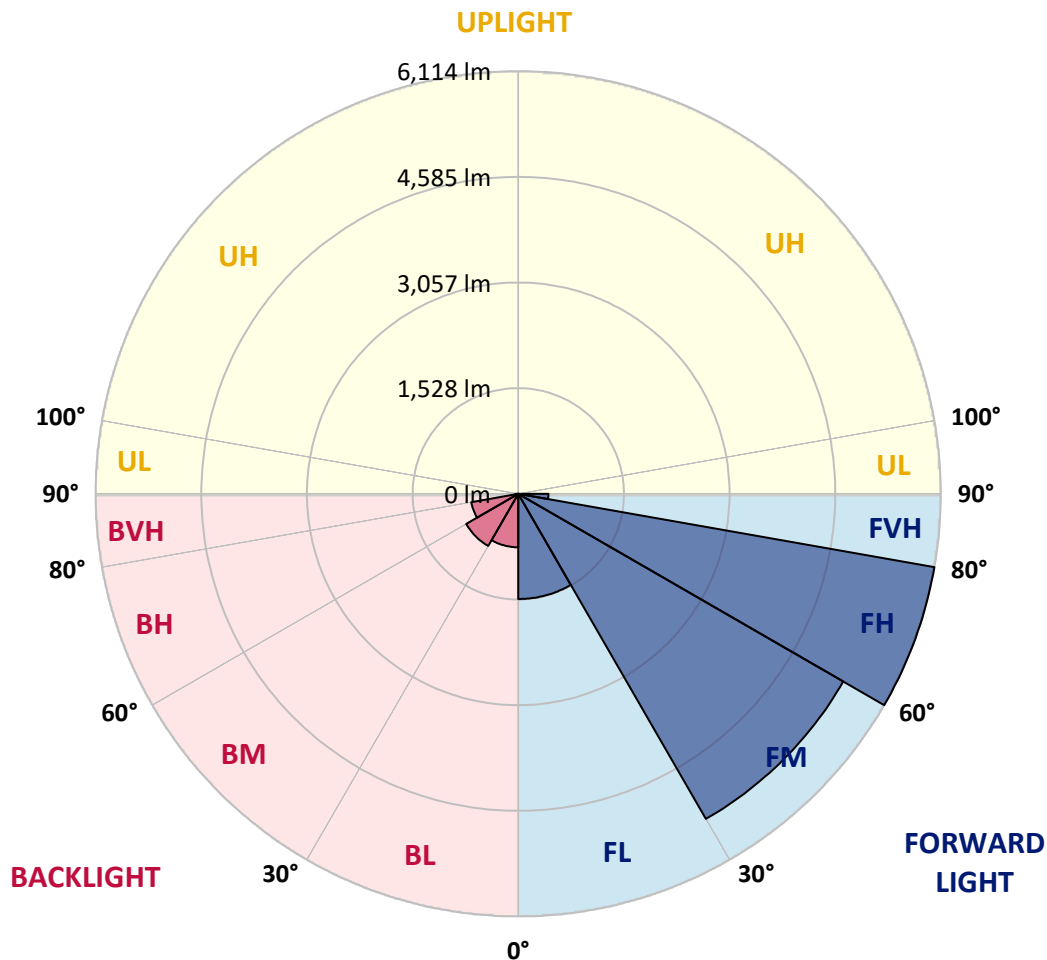
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1522.0	9.6			
FM (30°-60°)	5430.4	34.2			
FH (60°-80°)	6113.6	38.5			G3/7500
FVH (80°-90°)	436.4	2.7			G3/500
BL (0°-30°)	773.7	4.9	B2/1000		
BM (30°-60°)	870.5	5.5	B1/1000		
BH (60°-80°)	689.9	4.3	B2/1000		G2/1000
BVH (80°-90°)	39.5	0.2			G1/100
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°	55°	58°	65°	75°	85°
0°	4398.7	4398.7	4398.7	4398.7	4398.7	4398.7	4398.7	4398.7	4398.7	4398.7	4398.7
2.5°	4515.4	4509.3	4511.5	4507.1	4496.6	4486.1	4470.6	4473.4	4451.8	4419.7	4379.9
5°	4430.2	4428.0	4444.6	4454.0	4461.8	4455.7	4451.3	4456.8	4425.3	4381.0	4311.9
7.5°	4251.6	4227.3	4248.3	4279.8	4309.7	4332.4	4362.2	4366.1	4346.2	4299.7	4209.0
10°	3997.8	3974.5	4005.5	4054.7	4114.5	4168.7	4228.9	4240.0	4243.9	4201.8	4091.8
12.5°	3734.5	3716.8	3747.8	3816.9	3915.9	3999.4	4095.7	4112.2	4146.5	4118.3	3983.4
15°	3499.0	3492.3	3529.9	3597.9	3711.9	3839.6	3978.4	4008.8	4066.9	4057.5	3898.8
17.5°	3295.4	3293.8	3322.5	3393.9	3520.0	3681.4	3861.7	3913.2	3999.4	4010.5	3829.1
20°	3143.9	3140.6	3160.5	3213.0	3343.0	3526.0	3735.6	3806.4	3930.9	3969.6	3757.2
22.5°	3062.6	3062.1	3062.6	3087.5	3193.7	3364.0	3612.9	3699.1	3863.9	3936.9	3677.6
25°	3048.8	3047.1	3035.0	3032.2	3092.5	3228.5	3491.2	3586.3	3800.3	3914.3	3601.8
27.5°	3084.7	3087.0	3070.9	3044.9	3057.1	3139.5	3385.6	3487.3	3749.5	3909.8	3549.3
30°	3159.4	3158.3	3144.5	3117.4	3093.6	3106.3	3310.4	3412.1	3715.2	3929.2	3513.3
32.5°	3241.8	3247.9	3245.1	3230.2	3194.8	3143.9	3287.7	3387.2	3705.2	3975.7	3497.8
35°	3340.8	3347.4	3367.3	3378.9	3337.5	3255.6	3336.4	3422.6	3734.0	4063.0	3522.7
37.5°	3434.8	3451.9	3507.8	3557.0	3521.6	3430.4	3465.8	3527.2	3823.0	4200.7	3589.6
40°	3543.2	3558.1	3649.4	3753.9	3748.4	3653.8	3674.3	3715.2	3980.1	4398.2	3710.8
42.5°	3649.9	3679.8	3812.0	3960.2	4002.8	3919.2	3951.9	3973.4	4201.3	4659.7	3922.0
45°	3792.1	3824.1	4007.7	4186.4	4285.9	4238.9	4290.9	4299.2	4479.5	5015.9	4228.9
47.5°	4007.2	4043.7	4257.7	4445.2	4597.2	4602.2	4687.9	4684.6	4826.8	5423.5	4615.5
50°	4342.3	4394.8	4570.1	4745.5	4930.2	5033.0	5147.5	5131.5	5243.2	5857.6	5060.7
52.5°	4781.4	4805.7	4935.7	5065.1	5294.6	5525.2	5689.5	5675.1	5715.5	6303.9	5566.1
55°	5236.5	5254.8	5308.4	5379.2	5687.8	6063.9	6411.1	6388.5	6286.2	6767.3	6065.5
57.5°	5645.8	5682.8	5719.9	5749.2	6083.8	6626.8	7149.4	7151.1	6905.5	7267.2	6581.5
60°	5709.4	5742.0	5987.0	6218.1	6761.2	7377.8	7939.7	7923.1	7546.5	7809.7	7156.6
62.5°	5046.9	5120.4	5529.6	6144.6	7413.8	8751.5	8947.8	8927.4	8313.0	8478.3	7826.3
65°	3616.7	3700.3	4194.1	5118.2	7097.4	10265.1	10767.3	10491.9	9358.2	9300.7	8610.5
67.5°	2086.5	2106.4	2320.5	3062.6	5404.1	10344.2	13542.9	13157.4	10981.3	10233.6	8994.3
70°	1542.9	1542.4	1593.2	1884.7	2924.4	8442.4	14862.9	15208.6	12690.1	10540.5	8451.8
71°	1395.3	1396.9	1453.9	1715.5	2316.0	7066.5	14582.6	15339.1	13140.3	10389.0	8059.1
72.5°	1193.4	1198.9	1278.0	1538.5	1948.3	4873.2	13374.8	14556.0	13353.8	10015.2	7444.7
75°	905.3	918.0	1027.5	1296.8	1780.7	2471.4	9816.1	11623.4	11862.8	8837.2	5531.8
77.5°	645.9	660.3	784.2	1090.6	1692.8	1862.6	6573.7	8478.3	8730.0	5663.5	2495.2
80°	408.1	425.3	518.7	867.7	1590.5	1768.6	4131.1	5698.9	4760.4	1812.2	634.9
82.5°	239.5	252.7	321.9	566.8	1299.0	1703.3	2430.5	3158.8	1852.6	547.5	288.7
85°	138.8	144.9	200.7	361.1	943.5	1607.6	1785.7	1765.8	804.1	267.7	136.6
87.5°	64.7	71.9	118.9	188.6	523.7	1165.2	1411.3	1219.4	499.9	125.5	64.2
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°	4398.7	4398.7	4398.7	4398.7	4398.7	4398.7	4398.7	4398.7	4398.7	4398.7	4398.7
2.5°	4360.6	4351.2	4311.9	4277.0	4240.5	4193.0	4140.5	4133.8	4101.7	4107.8	4096.8
5°	4274.3	4250.5	4155.9	4070.2	3969.0	3878.3	3779.9	3734.5	3669.3	3664.9	3648.3
7.5°	4151.0	4106.7	3960.2	3797.6	3635.0	3480.1	3327.0	3226.3	3123.5	3079.8	3075.9
10°	4012.2	3936.9	3721.3	3480.7	3246.2	3020.0	2801.0	2639.0	2493.0	2423.9	2421.1
12.5°	3880.5	3769.4	3473.5	3146.1	2825.4	2532.3	2232.0	2019.1	1836.0	1774.6	1748.6
15°	3768.8	3612.3	3232.4	2813.8	2424.4	2017.4	1675.6	1451.7	1282.5	1223.8	1212.8
17.5°	3660.4	3459.1	2985.2	2478.1	2007.5	1560.1	1217.7	1051.3	961.1	937.4	936.8
20°	3552.6	3301.5	2726.9	2134.7	1604.3	1166.9	936.3	861.6	831.2	828.4	824.0
22.5°	3430.4	3134.5	2455.4	1790.1	1252.0	917.5	795.8	765.9	762.1	772.0	772.0
25°	3315.9	2968.6	2180.0	1452.8	973.9	765.4	710.6	704.5	715.1	732.8	734.4
27.5°	3209.2	2808.8	1911.2	1153.0	780.3	674.1	651.5	658.6	677.4	697.9	698.5
30°	3121.2	2657.8	1650.2	908.6	659.2	606.1	602.2	616.6	637.1	653.1	657.0
32.5°	3053.2	2529.0	1398.0	730.5	580.1	555.2	558.5	570.7	583.4	592.3	598.4
35°	3021.7	2418.4	1165.2	616.1	529.8	516.0	520.4	527.0	532.6	539.2	544.2
37.5°	3027.2	2332.6	957.3	544.7	496.1	488.9	488.9	488.9	488.9	492.2	492.7
40°	3078.7	2283.4	788.1	499.4	473.4	465.6	459.6	454.0	449.6	451.8	450.7
42.5°	3210.3	2279.0	664.2	470.6	455.1	442.4	430.2	422.5	417.0	419.2	420.3
45°	3433.7	2334.3	580.7	450.2	438.0	418.6	403.2	394.9	391.0	398.2	399.3
47.5°	3722.9	2454.9	529.8	435.2	422.0	396.5	379.9	372.2	373.3	383.8	386.6
50°	4095.7	2650.6	505.5	425.8	410.9	377.7	360.6	353.9	357.3	372.2	375.5
52.5°	4504.9	2932.7	508.2	423.1	403.7	363.9	345.6	337.9	343.4	357.3	360.0
55°	4977.2	3271.7	554.1	426.9	393.2	355.0	333.5	320.2	324.6	337.3	339.6
57.5°	5502.0	3659.9	646.5	425.8	379.9	346.7	320.8	300.8	304.2	311.9	314.1
60°	6048.4	4128.8	789.7	429.1	373.8	336.8	303.6	278.7	277.6	284.3	285.4
62.5°	6704.2	4671.4	953.4	431.4	377.7	324.1	280.9	256.6	253.3	254.9	256.0
65°	7380.0	5064.0	892.0	422.5	389.9	313.6	261.0	235.0	228.9	227.8	228.4
67.5°	7401.1	4643.1	625.5	404.8	394.9	308.0	246.1	216.8	206.8	203.0	202.4
70°	6637.3	3772.1	487.2	386.0	374.9	299.2	232.3	201.9	186.9	180.8	180.3
71°	6264.6	3472.4	461.8	376.6	360.0	290.3	226.2	195.2	179.7	173.1	172.0
72.5°	5680.1	3112.9	430.8	361.7	331.3	267.7	214.6	185.8	169.8	162.0	160.4
75°	4076.3	2035.7	370.0	322.4	274.3	213.5	188.0	167.0	153.2	143.8	142.7
77.5°	1570.6	810.2	279.8	268.2	210.1	167.0	154.8	144.3	134.4	125.0	124.4
80°	485.6	362.2	204.1	201.9	152.1	124.4	120.6	117.8	113.9	104.0	101.8
82.5°	259.4	207.9	140.5	130.5	99.5	83.0	87.4	88.5	89.0	78.5	77.4
85°	123.9	110.1	79.1	74.1	58.1	46.5	53.6	58.1	58.6	48.1	44.8
87.5°	59.2	57.5	37.1	28.2	21.6	15.5	18.8	23.2	25.4	18.2	16.0
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)