

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: P323010

Luminaire Tested: **GLEON-SA6C-827-U-T4W-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323010
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-SA6C-827-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 2700K, 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: 22539 lumens
Efficiency: N/A
Efficacy: 67.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

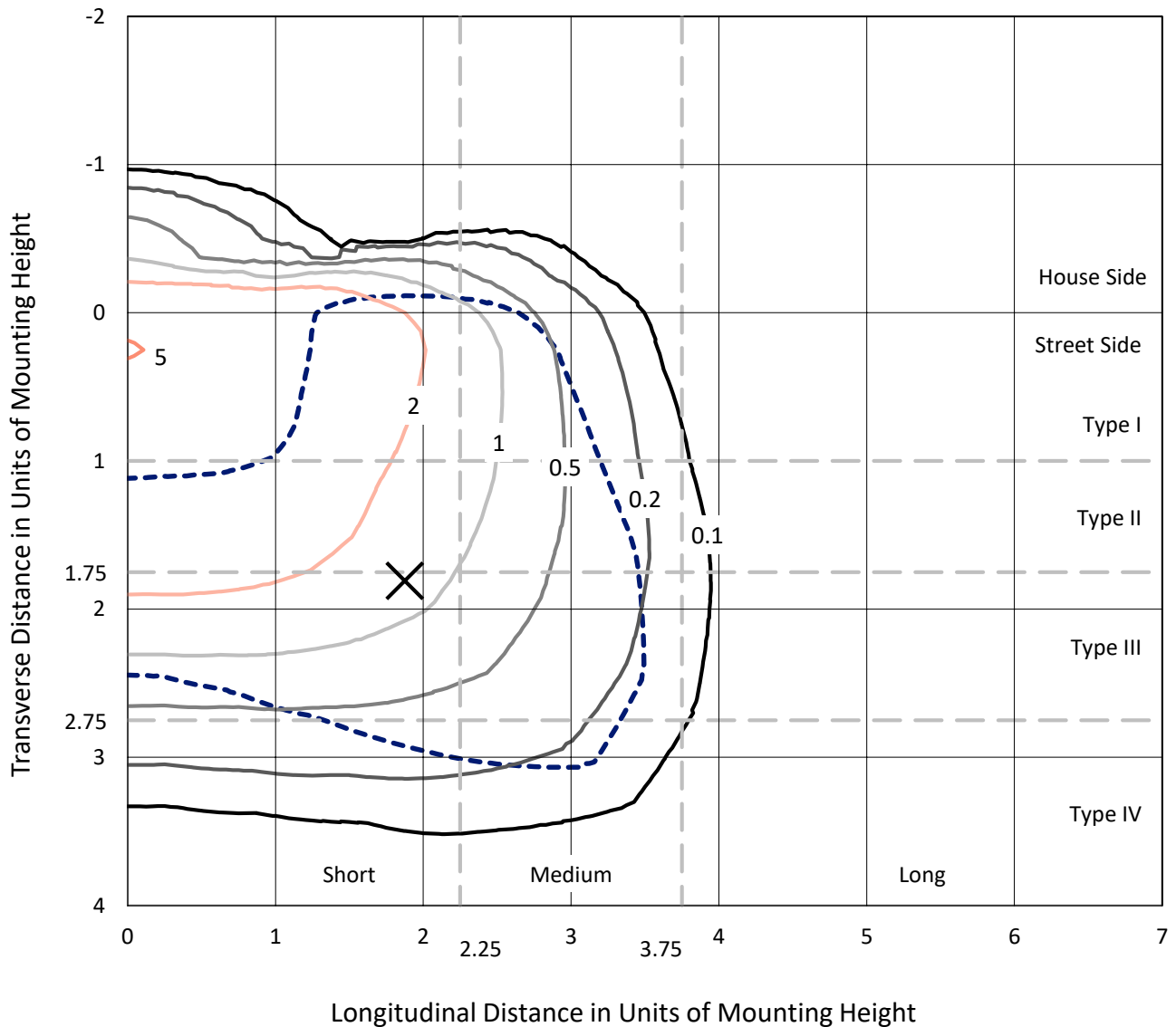
Input Watts (W): 333
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

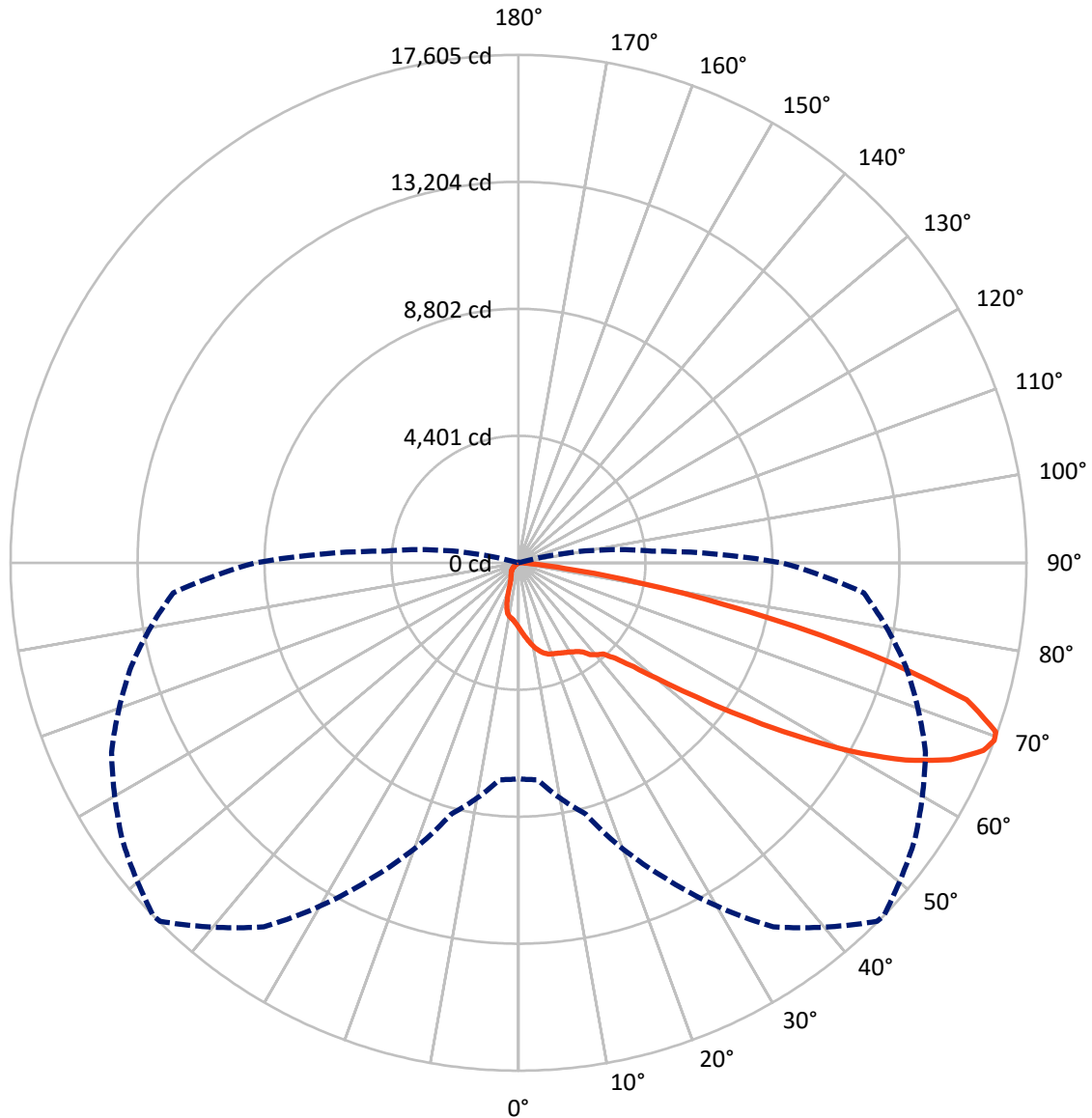
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.3 fc
 Type 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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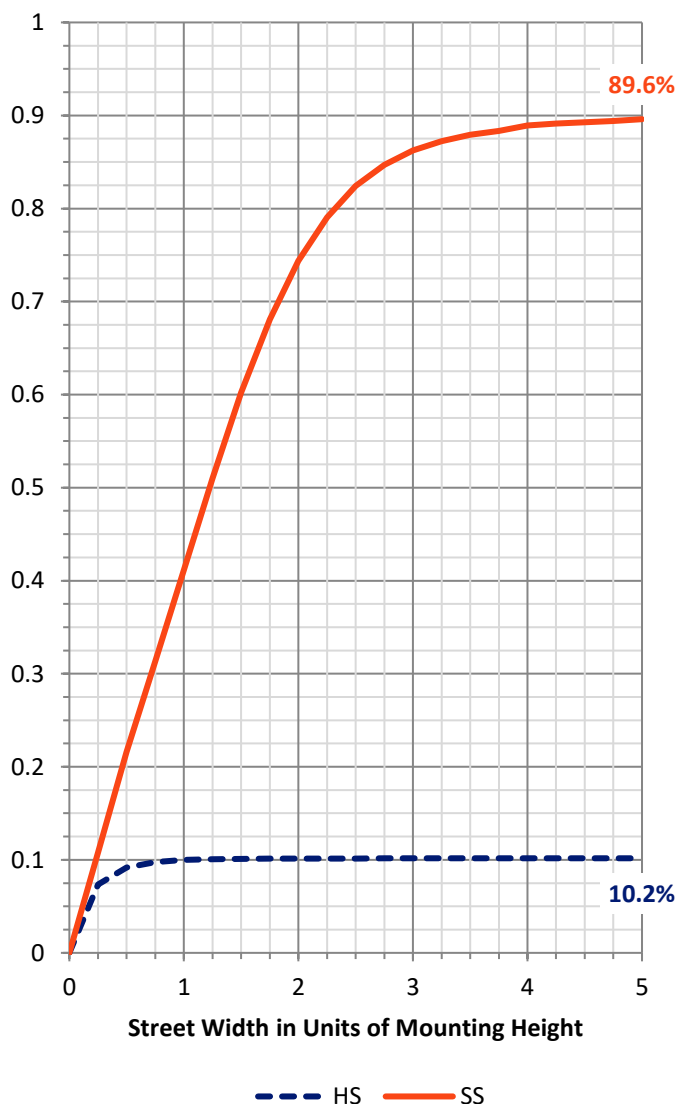
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2313.1	0.0	2313.1
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	20225.9	0.0	20225.9
	% Fixture	89.7	0.0	89.7
Total	Lumens	22539.0	0.0	22539.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	224.8	1.0
10°-20°	681.9	3.0
20°-30°	1072.5	4.8
30°-40°	1537.9	6.8
40°-50°	2658.1	11.8
50°-60°	5251.3	23.3
60°-70°	7339.1	32.6
70°-80°	3545.6	15.7
80°-90°	227.9	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°	22539.0	100.0
0°-180°	22539.0	100.0

Coefficient of Utilization



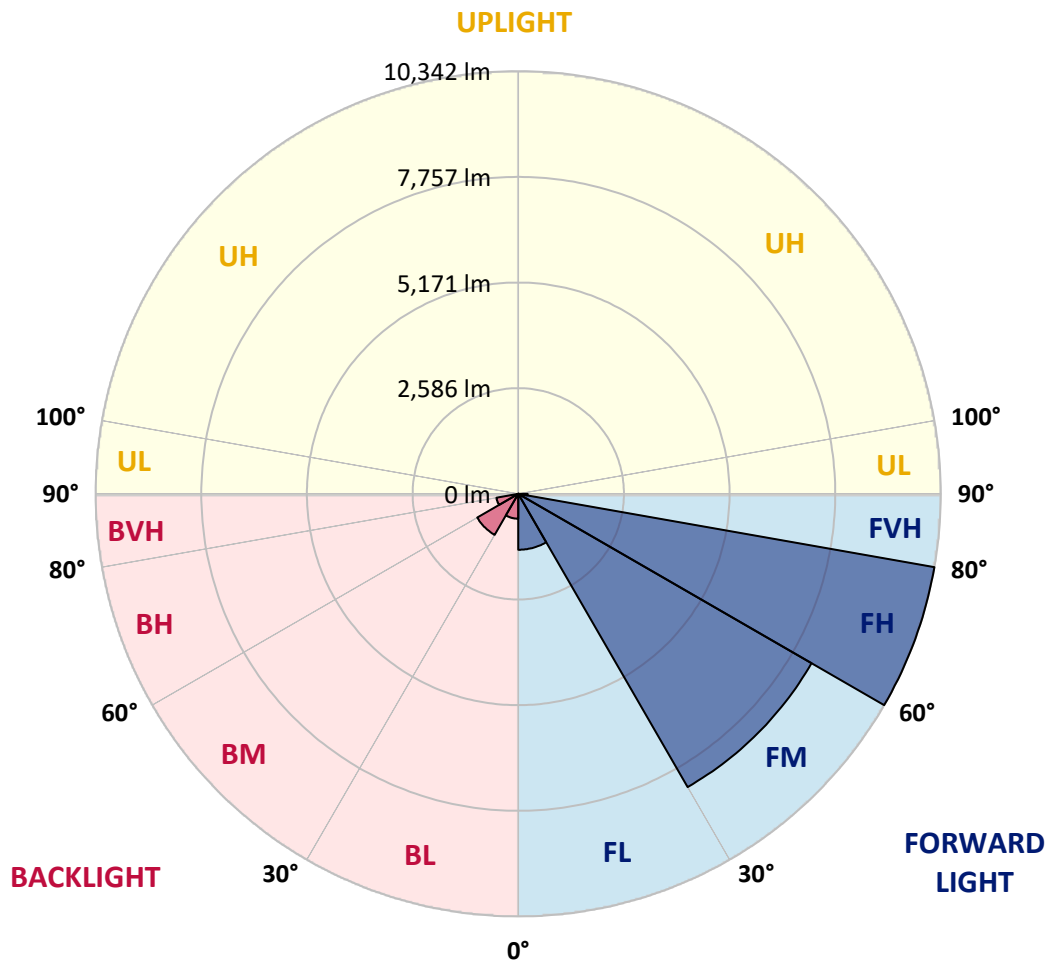
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1369.5	6.1			
FM (30°-60°)	8288.1	36.8			
FH (60°-80°)	10342.3	45.9			G4/12000
FVH (80°-90°)	226.0	1.0			G3/500
BL (0°-30°)	609.7	2.7	B2/1000		
BM (30°-60°)	1159.2	5.1	B2/2500		
BH (60°-80°)	542.4	2.4	B2/1000		G2/1000
BVH (80°-90°)	1.9	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-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	2258.3	2258.3	2258.3	2258.3	2258.3	2258.3	2258.3	2258.3	2258.3	2258.3	2258.3
2.5°	2508.8	2505.6	2490.8	2484.5	2448.5	2427.4	2419.0	2392.5	2354.5	2316.4	2274.2
5°	2794.1	2793.1	2765.6	2739.2	2671.5	2608.1	2596.5	2535.2	2449.6	2369.3	2289.0
7.5°	3085.8	3072.0	3044.6	2993.8	2895.6	2794.1	2784.6	2697.9	2576.4	2460.2	2345.0
10°	3333.1	3324.6	3288.7	3211.5	3096.3	2981.2	2969.5	2862.8	2725.4	2582.8	2435.9
12.5°	3525.4	3519.1	3471.5	3375.3	3252.7	3133.3	3117.5	3022.4	2875.5	2715.9	2542.6
15°	3642.7	3639.5	3581.4	3478.9	3358.4	3254.9	3241.1	3157.6	3021.3	2854.3	2658.8
17.5°	3670.2	3671.2	3611.0	3507.4	3408.1	3334.1	3323.6	3260.1	3146.0	2980.1	2775.1
20°	3608.9	3621.6	3567.7	3477.8	3416.5	3377.4	3369.0	3330.9	3234.8	3078.4	2868.1
22.5°	3522.2	3528.6	3491.6	3431.3	3406.0	3413.4	3409.1	3388.0	3306.6	3162.9	2960.0
25°	3469.4	3469.4	3447.2	3396.5	3413.4	3458.8	3459.9	3455.6	3391.2	3266.5	3072.0
27.5°	3467.3	3460.9	3435.6	3397.5	3444.0	3513.8	3518.0	3546.5	3506.4	3392.2	3211.5
30°	3551.8	3544.4	3490.5	3440.9	3500.0	3575.1	3585.6	3648.0	3627.9	3528.6	3366.9
32.5°	3749.4	3723.0	3603.6	3522.2	3566.6	3656.4	3670.2	3769.5	3801.2	3696.6	3516.9
35°	4020.0	3936.5	3764.2	3676.5	3680.7	3774.8	3787.5	3933.3	4027.4	3850.9	3633.2
37.5°	4393.0	4351.8	4071.7	3837.1	3856.2	3998.8	4035.8	4194.3	4167.9	3935.4	3765.3
40°	5210.9	5146.5	4848.5	4287.3	4024.2	4180.6	4192.2	4276.8	4278.9	4126.7	4040.0
42.5°	6324.8	6298.4	5984.5	5104.2	4355.0	4302.1	4323.3	4465.9	4625.5	4530.4	4526.2
45°	7558.0	7544.3	7211.4	6188.5	5023.9	4700.5	4726.9	4918.2	5223.6	5244.8	5379.0
47.5°	8550.3	8544.0	8352.7	7398.5	6047.9	5375.8	5384.3	5587.2	6124.0	6389.2	6603.8
50°	9454.9	9485.6	9334.5	8707.8	7442.9	6433.6	6413.6	6548.8	7411.1	7845.5	8111.8
52.5°	10712.5	10755.8	10332.1	9929.4	8906.5	7746.1	7730.3	7871.9	8958.3	9283.7	9331.3
55°	11823.2	11749.2	11414.2	11298.0	10691.4	9367.2	9363.0	9487.7	10454.7	10593.1	10680.8
57.5°	12313.5	12285.0	12446.7	12713.0	12560.8	11283.2	11273.7	11178.5	11793.6	11808.4	12077.9
60°	12623.2	12658.0	13153.7	13974.8	14354.1	13344.9	13283.6	12703.5	13072.3	13039.5	13328.0
62.5°	12390.7	12459.4	13351.3	14719.8	15696.2	15144.6	15058.0	14100.5	14165.0	14051.9	14320.3
65°	11156.4	11263.1	12724.6	14579.2	16362.0	16551.2	16463.5	15333.8	15032.6	14846.6	14697.6
67.5°	9058.7	9122.1	10648.0	13356.6	16061.9	17390.3	17372.3	16414.9	15687.8	14712.4	13556.3
69°	7486.2	7548.5	9017.4	12069.4	15401.4	17569.9	17604.8	16761.5	15563.1	13896.6	12011.3
70°	6340.6	6407.2	7775.7	10966.1	14635.2	17486.4	17548.8	16728.7	15205.9	12951.8	10655.4
72.5°	3325.7	3382.7	4787.2	7554.9	11931.0	16056.6	16245.8	15314.8	12889.5	9406.3	6300.5
75°	1045.1	1077.9	1869.4	3949.2	8168.9	12484.7	12528.0	12013.4	9152.7	5174.0	2624.0
77.5°	398.4	388.9	622.4	1455.2	4129.9	7861.3	8126.6	7507.3	4803.0	1829.3	605.5
80°	214.5	215.6	323.4	602.4	1766.9	4040.0	4264.1	3638.5	1706.7	570.7	139.5
82.5°	93.0	97.2	181.8	319.1	811.6	1490.0	1602.1	1333.6	652.0	383.6	51.8
85°	20.1	22.2	87.7	173.3	330.8	418.5	438.6	432.2	415.3	298.0	20.1
87.5°	0.0	0.0	39.1	62.3	83.5	95.1	83.5	108.8	229.3	200.8	10.6
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°	2258.3	2258.3	2258.3	2258.3	2258.3	2258.3	2258.3	2258.3	2258.3	2258.3	2258.3
2.5°	2260.4	2241.4	2208.7	2172.7	2147.4	2120.9	2099.8	2090.3	2079.7	2072.3	2081.8
5°	2256.2	2219.2	2155.8	2094.5	2050.1	2014.2	1984.6	1973.0	1961.4	1952.9	1951.9
7.5°	2293.2	2241.4	2144.2	2054.4	1985.7	1937.1	1896.9	1880.0	1866.3	1859.9	1854.6
10°	2364.0	2297.4	2167.4	2050.1	1961.4	1878.9	1792.3	1725.7	1682.4	1662.3	1654.9
12.5°	2455.9	2372.5	2211.8	2072.3	1943.4	1784.9	1601.0	1442.5	1340.0	1306.2	1286.1
15°	2563.7	2460.2	2269.9	2100.9	1877.9	1588.3	1276.6	1069.5	974.3	955.3	934.2
17.5°	2667.3	2553.2	2339.7	2106.1	1734.2	1269.2	935.2	794.7	757.7	770.4	773.6
20°	2758.2	2645.1	2408.4	2059.7	1473.1	952.2	723.9	689.0	702.8	727.1	731.3
22.5°	2850.1	2733.9	2471.8	1937.1	1139.2	722.8	652.0	660.5	674.2	698.5	702.8
25°	2962.1	2841.7	2531.0	1712.0	854.9	615.0	619.3	632.0	645.7	667.9	670.0
27.5°	3091.1	2978.0	2570.1	1419.2	634.1	565.4	579.1	598.1	611.9	633.0	637.2
30°	3262.3	3157.6	2582.8	1116.0	531.6	521.0	527.3	550.6	570.7	589.7	592.8
32.5°	3422.9	3335.2	2540.5	842.2	492.5	479.8	479.8	493.5	516.8	534.7	539.0
35°	3570.8	3513.8	2405.2	616.1	462.9	441.7	431.2	431.2	446.0	460.8	465.0
37.5°	3766.3	3764.2	2186.5	491.4	434.3	410.0	387.8	370.9	365.6	368.8	370.9
40°	4101.3	4104.5	1901.1	440.7	410.0	377.3	343.5	312.8	284.3	274.8	273.7
42.5°	4624.4	4576.9	1602.1	416.4	388.9	343.5	292.7	251.5	207.1	193.4	192.3
45°	5455.1	5172.9	1285.0	394.2	366.7	305.4	242.0	186.0	150.1	139.5	139.5
47.5°	6665.1	5956.0	995.5	369.9	337.1	262.1	182.8	134.2	109.9	104.6	105.7
50°	7916.3	6723.2	763.0	339.2	301.2	216.6	135.3	97.2	83.5	83.5	84.5
52.5°	9025.9	7285.4	595.0	306.5	256.8	170.1	102.5	76.1	69.7	68.7	69.7
55°	10064.7	7647.9	455.5	268.4	204.0	126.8	78.2	62.3	58.1	56.0	55.0
57.5°	11066.5	7827.5	341.3	216.6	147.9	91.9	62.3	52.8	48.6	45.4	44.4
60°	11733.3	7681.7	234.6	159.6	102.5	66.6	51.8	45.4	40.2	37.0	35.9
62.5°	12109.6	7283.3	151.1	115.2	72.9	49.7	41.2	38.0	30.6	27.5	27.5
65°	11957.4	6626.0	105.7	82.4	52.8	37.0	30.6	30.6	22.2	18.0	16.9
67.5°	10596.3	5597.7	80.3	61.3	38.0	27.5	23.2	26.4	13.7	8.5	8.5
69°	9116.8	4639.2	68.7	50.7	31.7	22.2	20.1	24.3	9.5	6.3	5.3
70°	7923.7	4002.0	62.3	44.4	26.4	19.0	18.0	23.2	9.5	5.3	4.2
72.5°	4740.7	2231.9	47.6	31.7	16.9	14.8	14.8	26.4	9.5	5.3	4.2
75°	1915.9	786.2	34.9	22.2	12.7	12.7	18.0	33.8	8.5	4.2	3.2
77.5°	434.3	172.3	20.1	13.7	8.5	12.7	21.1	26.4	5.3	2.1	0.0
80°	105.7	42.3	12.7	8.5	5.3	9.5	15.9	14.8	1.1	0.0	0.0
82.5°	34.9	14.8	5.3	4.2	1.1	3.2	7.4	4.2	0.0	0.0	0.0
85°	14.8	8.5	2.1	1.1	0.0	0.0	1.1	0.0	0.0	0.0	0.0
87.5°	9.5	3.2	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)