

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: P321086

Luminaire Tested: **GLEON-SA2C-827-U-AFL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321086
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-29)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA2C-827-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10914 lumens
Efficiency: N/A
Efficacy: 96.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

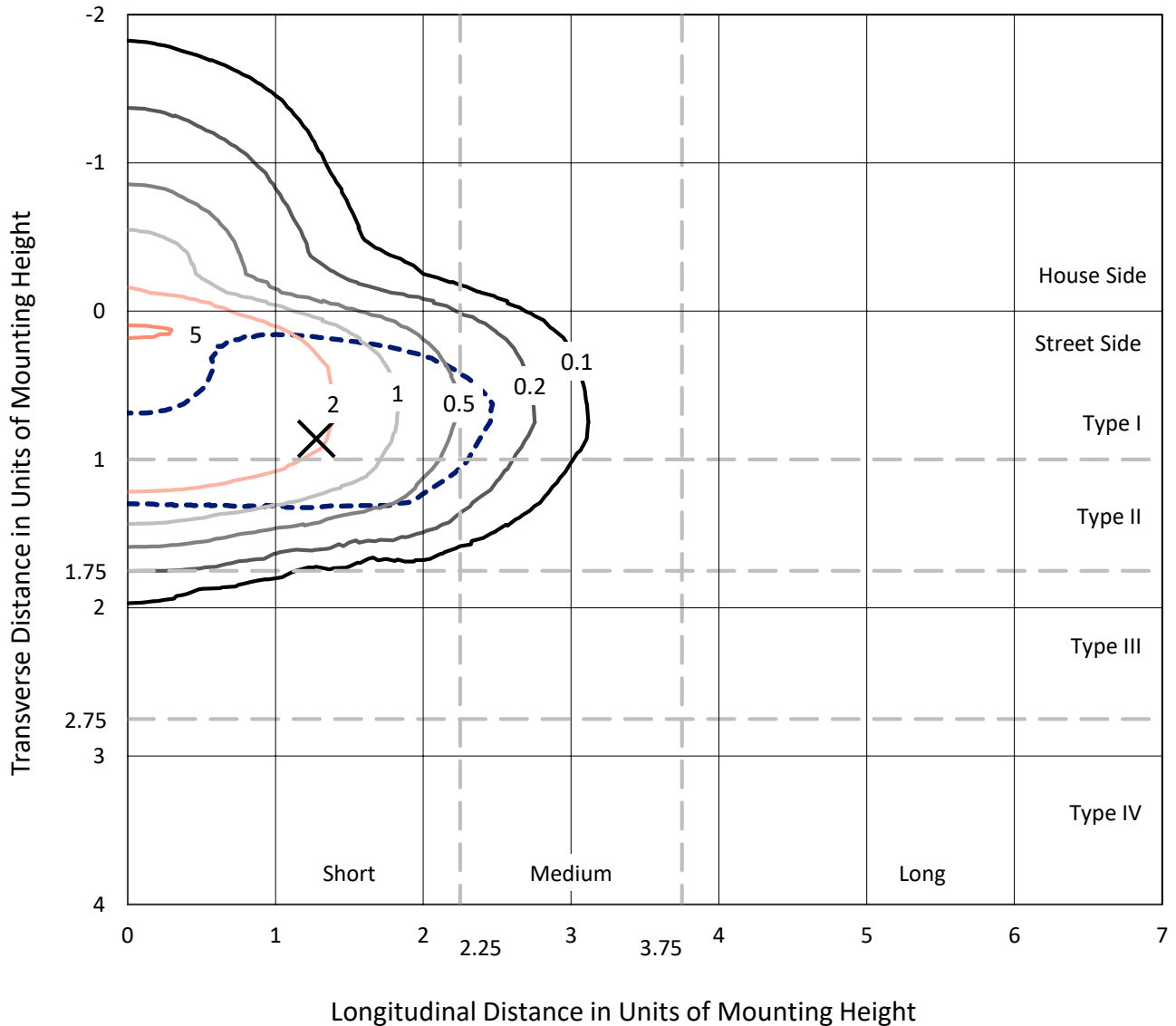
Input Watts (W): 113
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

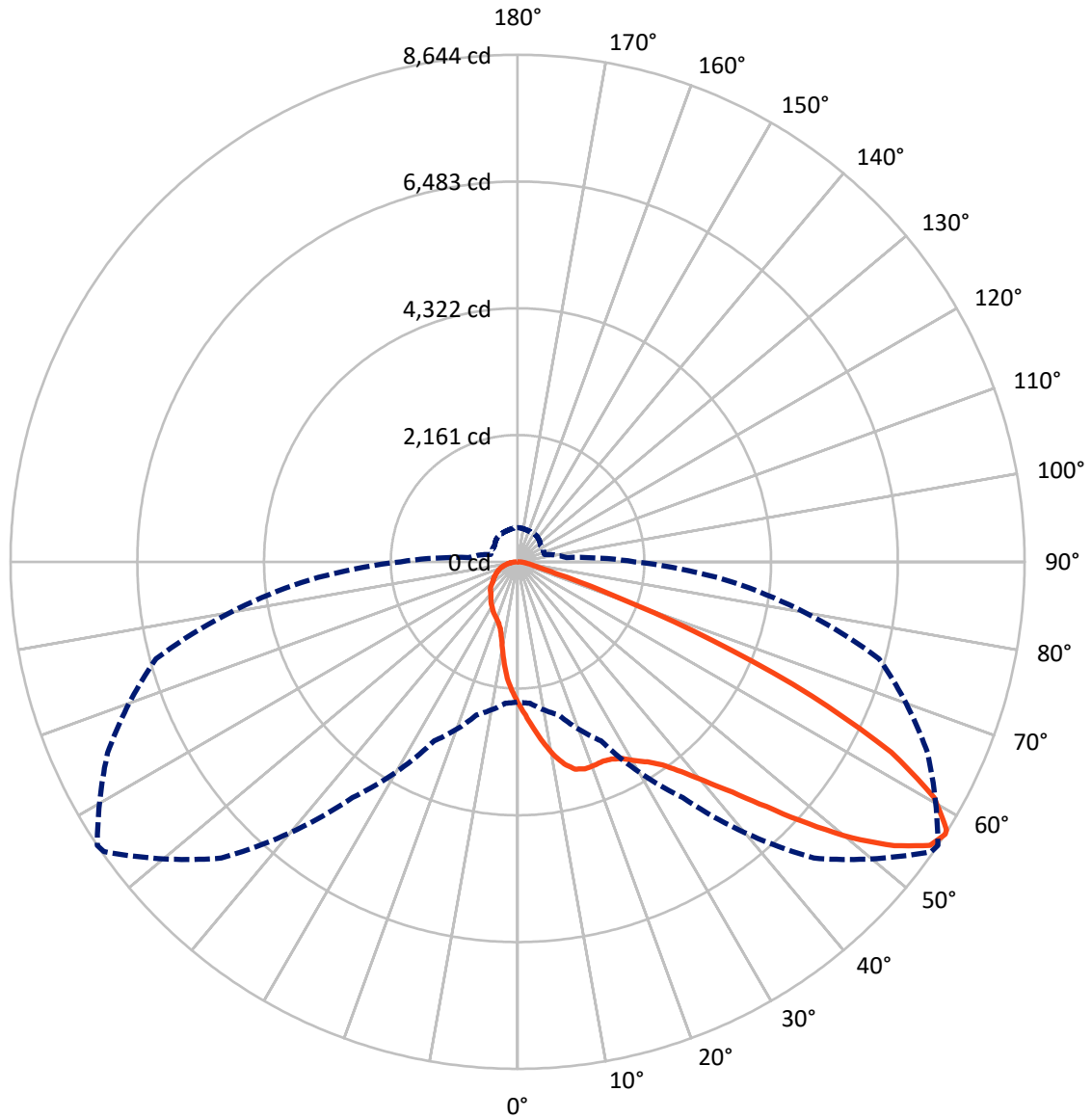
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 57-Deg Vertical

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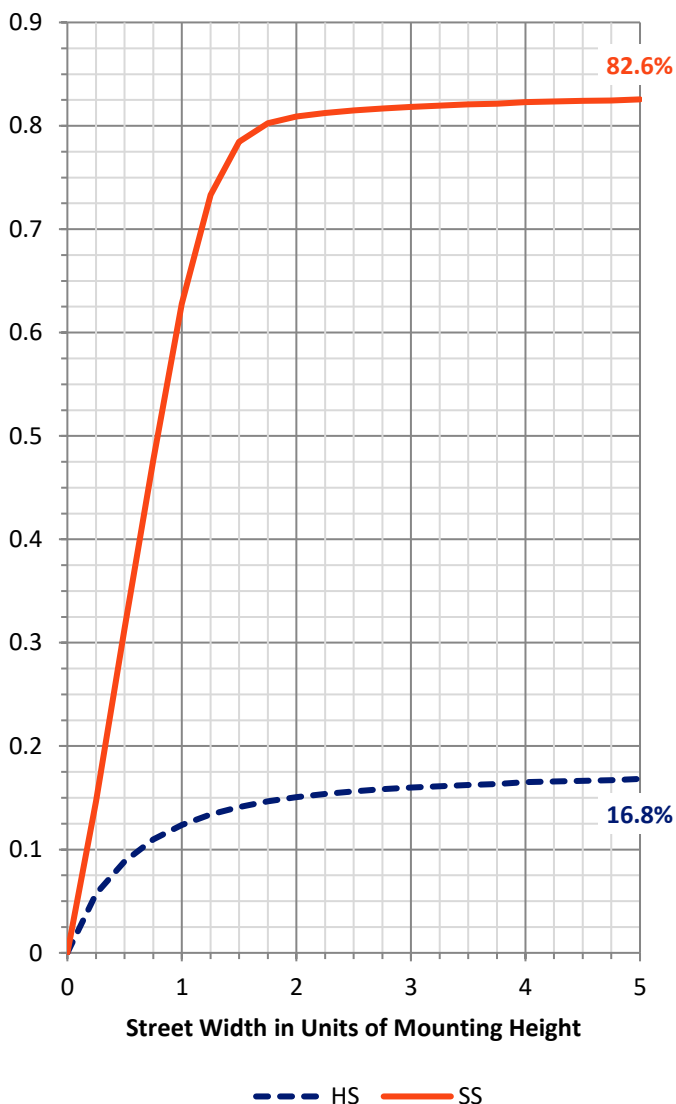
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1881.3	0.0	1881.3
	% Fixture	17.2	0.0	17.2
Street Side	Lumens	9032.7	0.0	9032.7
	% Fixture	82.8	0.0	82.8
Total	Lumens	10914.0	0.0	10914.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	231.2	2.1
10°-20°	653.8	6.0
20°-30°	1064.9	9.8
30°-40°	1591.9	14.6
40°-50°	2414.5	22.1
50°-60°	2706.2	24.8
60°-70°	1598.4	14.6
70°-80°	523.7	4.8
80°-90°	129.4	1.2
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°	10914.0	100.0
0°-180°	10914.0	100.0

Coefficient of Utilization

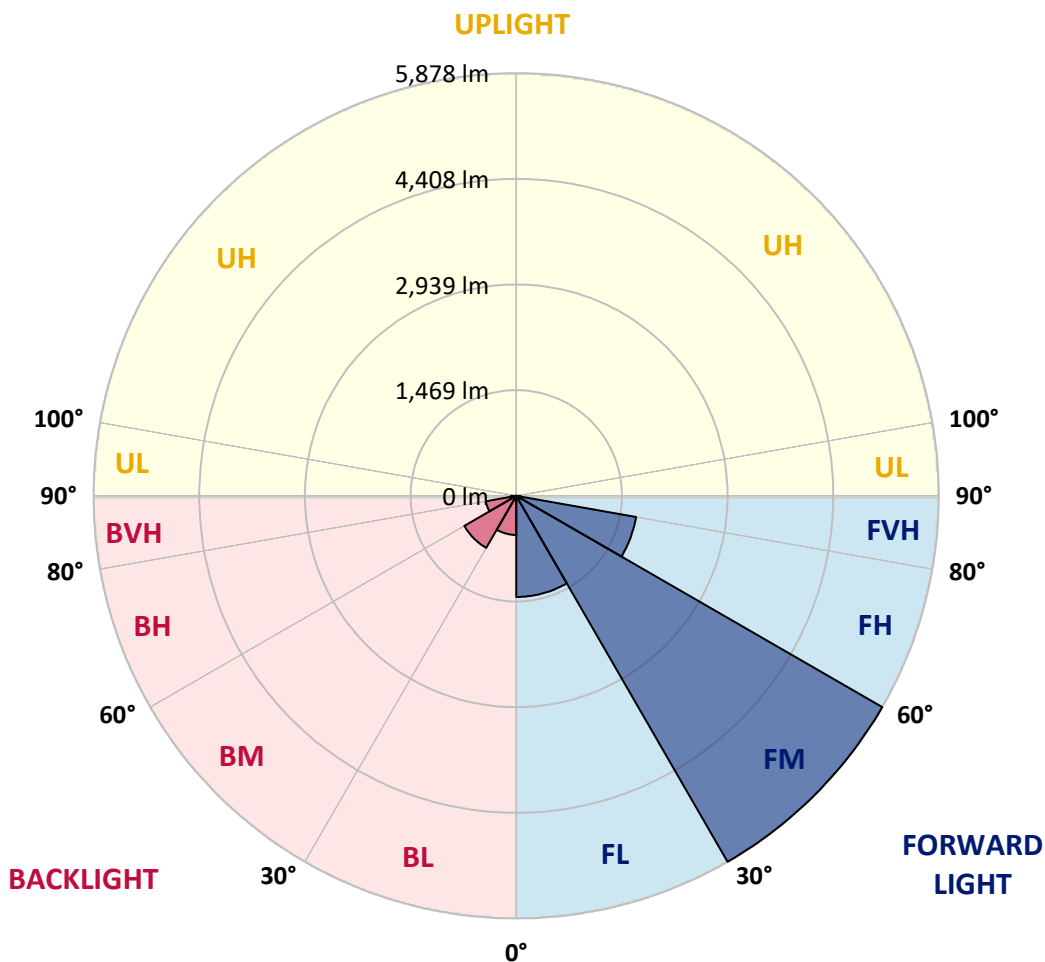


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1405.9	12.9			
FM (30°-60°)	5877.6	53.9			
FH (60°-80°)	1692.2	15.5			G1/1800
FVH (80°-90°)	57.0	0.5			G1/100
BL (0°-30°)	544.0	5.0	B2/1000		
BM (30°-60°)	835.1	7.7	B1/1000		
BH (60°-80°)	429.9	3.9	B1/500		G1/500
BVH (80°-90°)	72.4	0.7			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	2420.7	2420.7	2420.7	2420.7	2420.7	2420.7	2420.7	2420.7	2420.7	2420.7	2420.7
2.5°	2779.7	2805.2	2793.9	2754.9	2724.9	2682.5	2635.3	2621.0	2571.1	2515.3	2448.1
5°	3219.6	3206.9	3188.5	3127.8	3063.6	2989.0	2870.5	2851.7	2740.7	2614.3	2480.7
7.5°	3470.2	3469.1	3458.2	3422.6	3364.0	3266.5	3123.6	3101.5	2933.8	2730.5	2523.5
10°	3433.8	3431.2	3449.2	3486.3	3504.0	3483.7	3363.3	3341.2	3135.3	2859.2	2573.0
12.5°	3227.1	3228.6	3257.5	3335.5	3441.7	3569.2	3549.7	3538.8	3344.2	3004.7	2633.0
15°	3066.2	3069.6	3092.5	3160.4	3285.7	3517.1	3663.0	3666.7	3546.3	3165.3	2703.2
17.5°	2995.7	3002.9	3013.4	3061.0	3175.8	3413.2	3690.0	3710.2	3723.4	3331.8	2770.7
20°	3018.2	3025.0	3028.0	3058.4	3152.5	3350.2	3671.2	3707.6	3859.1	3488.6	2838.2
22.5°	3119.1	3123.3	3125.1	3133.0	3206.1	3368.2	3658.9	3697.1	3957.4	3629.2	2889.2
25°	3286.4	3283.4	3271.4	3261.3	3310.4	3439.4	3687.4	3723.7	4037.3	3756.8	2922.6
27.5°	3486.7	3482.9	3459.7	3431.9	3460.1	3550.5	3769.5	3798.4	4108.9	3876.0	2939.5
30°	3727.1	3717.4	3673.5	3640.5	3651.4	3717.0	3904.9	3931.2	4219.6	4011.4	2956.0
32.5°	4005.1	3994.6	3931.2	3876.4	3876.4	3931.2	4044.4	4066.2	4313.4	4164.5	2982.6
35°	4353.1	4340.0	4257.5	4165.6	4139.7	4167.5	4234.6	4250.0	4482.1	4357.2	3031.0
37.5°	4763.5	4745.8	4638.9	4515.9	4459.3	4457.8	4506.2	4537.7	4751.8	4610.4	3113.1
40°	5174.9	5162.5	5069.1	4972.4	4861.3	4825.7	4900.4	4910.1	5104.4	4924.7	3218.1
42.5°	5493.0	5490.7	5473.5	5486.2	5372.6	5300.6	5359.1	5367.0	5535.0	5264.9	3329.9
45°	5661.0	5664.8	5748.4	5933.7	5975.7	5923.2	5952.1	5954.3	6027.1	5608.1	3432.3
47.5°	5526.4	5545.9	5757.4	6171.9	6515.8	6690.2	6642.2	6670.0	6504.2	5902.9	3512.6
50°	5001.6	5025.6	5385.7	6065.7	6767.9	7432.5	7407.4	7401.0	6889.0	6119.0	3556.1
52.5°	4351.6	4370.4	4667.4	5514.0	6582.9	7842.8	8073.5	8040.5	7231.1	6280.6	3564.3
55°	3361.8	3391.1	3675.7	4412.8	5835.0	7686.0	8563.3	8533.7	7542.8	6365.4	3554.6
57°	2390.0	2420.7	2703.5	3367.8	4908.6	7143.3	8612.1	8643.6	7711.2	6379.7	3565.5
57.5°	2132.7	2164.2	2444.4	3089.5	4619.8	6947.1	8570.1	8622.6	7741.6	6377.4	3571.5
60°	1073.8	1085.8	1264.4	1724.6	2920.3	5616.4	8022.1	8157.5	7768.9	6267.1	3597.3
62.5°	667.6	659.0	653.4	794.4	1420.8	3724.5	6891.3	7151.9	7245.0	6000.1	3534.7
65°	587.0	570.9	509.0	497.7	627.5	1809.0	5189.5	5514.0	6125.4	5579.2	3385.4
67.5°	551.4	535.6	465.8	423.8	424.2	717.1	3221.9	3587.2	4771.7	4867.7	3033.2
70°	514.6	500.4	435.1	385.6	361.2	397.2	1482.3	1759.5	3110.5	3826.1	2535.1
72.5°	467.3	457.6	395.7	344.7	318.8	297.4	567.5	670.3	1800.7	2569.6	1760.6
75°	417.8	408.8	355.9	307.2	275.7	234.0	319.6	344.3	914.8	1314.6	866.8
77.5°	363.4	358.2	316.6	271.6	246.4	193.9	226.2	238.2	392.3	563.7	434.7
80°	289.2	299.3	276.8	241.9	218.7	155.3	160.2	168.0	228.4	275.3	246.8
82.5°	188.3	205.9	216.8	196.5	180.0	122.3	115.1	118.5	148.9	168.0	107.3
85°	78.4	88.1	142.5	128.7	119.6	89.3	77.3	78.8	92.3	95.6	43.9
87.5°	34.9	37.1	62.6	58.9	50.6	30.8	33.0	36.0	49.1	46.5	16.9
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°	2420.7	2420.7	2420.7	2420.7	2420.7	2420.7	2420.7	2420.7	2420.7	2420.7	2420.7
2.5°	2423.0	2391.5	2337.5	2277.8	2229.1	2190.1	2150.7	2123.7	2092.2	2075.3	2066.7
5°	2424.9	2363.0	2249.3	2132.7	2028.4	1933.1	1842.4	1772.6	1707.3	1672.1	1662.3
7.5°	2432.7	2339.7	2155.9	1963.9	1778.6	1609.4	1478.9	1397.2	1338.3	1312.0	1304.5
10°	2439.1	2312.3	2040.4	1756.1	1504.1	1332.6	1231.4	1185.6	1165.4	1162.0	1158.6
12.5°	2454.1	2284.2	1918.9	1539.3	1290.6	1172.1	1136.9	1133.9	1139.5	1147.7	1147.7
15°	2477.7	2256.5	1780.1	1353.3	1154.9	1113.2	1120.3	1136.9	1152.2	1165.0	1166.9
17.5°	2495.0	2222.3	1630.8	1204.4	1082.5	1093.7	1119.2	1142.5	1158.2	1170.6	1171.7
20°	2507.4	2169.4	1471.4	1090.7	1040.8	1075.7	1107.6	1128.2	1139.1	1151.5	1153.4
22.5°	2501.0	2098.5	1330.0	1009.3	1007.1	1049.5	1079.8	1104.6	1096.3	1084.3	1092.2
25°	2470.2	2001.0	1184.5	948.6	971.4	1014.2	1051.7	1035.2	1007.5	1002.2	1005.2
27.5°	2415.5	1876.5	1049.8	892.3	930.2	981.6	979.3	962.8	953.1	946.3	950.4
30°	2356.6	1741.5	932.1	843.2	884.4	926.8	918.2	917.8	908.1	897.2	902.4
32.5°	2298.5	1605.7	838.7	802.7	849.9	855.5	874.3	879.9	860.8	837.9	836.4
35°	2247.8	1477.4	767.8	765.9	808.3	809.0	836.4	828.5	780.9	757.3	757.3
37.5°	2209.9	1349.5	713.8	732.9	753.5	773.0	786.9	754.3	746.4	733.3	732.9
40°	2193.4	1237.0	680.0	707.8	714.9	739.6	704.0	716.8	720.5	713.8	713.8
42.5°	2176.2	1139.1	650.8	688.6	687.5	684.1	666.1	682.6	697.6	698.0	696.9
45°	2158.9	1054.7	624.9	647.8	663.5	627.1	630.5	648.1	669.1	676.6	676.6
47.5°	2139.8	987.9	601.2	604.6	629.0	604.6	602.0	615.5	640.3	652.3	654.9
50°	2097.8	927.9	574.2	566.7	573.5	581.7	584.0	590.4	617.7	636.9	641.4
52.5°	2039.7	874.3	539.7	531.9	531.9	563.0	573.5	575.4	598.6	621.5	626.0
55°	1991.3	840.2	504.1	502.6	501.1	543.1	561.1	564.1	580.2	598.2	600.5
57°	1994.6	837.5	476.7	478.2	477.8	522.9	549.5	555.9	564.1	579.5	582.1
57.5°	1996.5	839.4	470.7	471.5	471.1	517.2	546.1	553.2	559.6	575.7	578.4
60°	2024.7	844.3	446.3	438.1	440.0	487.2	527.0	536.0	540.1	561.5	564.9
62.5°	1983.0	822.5	426.8	407.0	407.0	455.7	500.4	514.6	521.0	549.9	555.5
65°	1862.2	761.4	404.0	371.7	375.5	424.2	468.5	491.7	501.5	537.5	543.5
67.5°	1675.8	690.5	379.6	340.2	343.9	391.2	435.5	460.6	476.0	524.0	528.9
70°	1433.2	603.9	346.6	306.8	311.3	355.2	396.5	425.0	447.8	511.2	512.7
72.5°	1056.6	495.1	300.4	270.1	274.9	313.2	357.1	390.1	420.8	479.3	478.6
75°	628.3	387.1	249.4	232.9	236.3	271.9	321.4	361.6	407.7	467.0	474.1
77.5°	381.1	291.4	203.3	195.0	199.2	235.5	295.9	338.7	402.1	440.3	438.1
80°	230.3	208.2	162.4	157.2	161.3	201.4	273.8	321.4	351.4	376.2	376.2
82.5°	120.4	127.2	119.3	115.1	120.8	163.5	249.0	280.6	310.6	266.7	249.0
85°	49.1	66.4	72.4	72.0	75.4	113.3	214.9	240.0	200.3	190.2	194.7
87.5°	16.5	28.1	35.3	30.4	31.9	71.3	148.9	115.9	137.7	96.0	91.1
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)