

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: P321076

Luminaire Tested: **GLEON-SA2B-827-U-AFL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321076
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-SA2B-827-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8818 lumens
Efficiency: N/A
Efficacy: 103.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

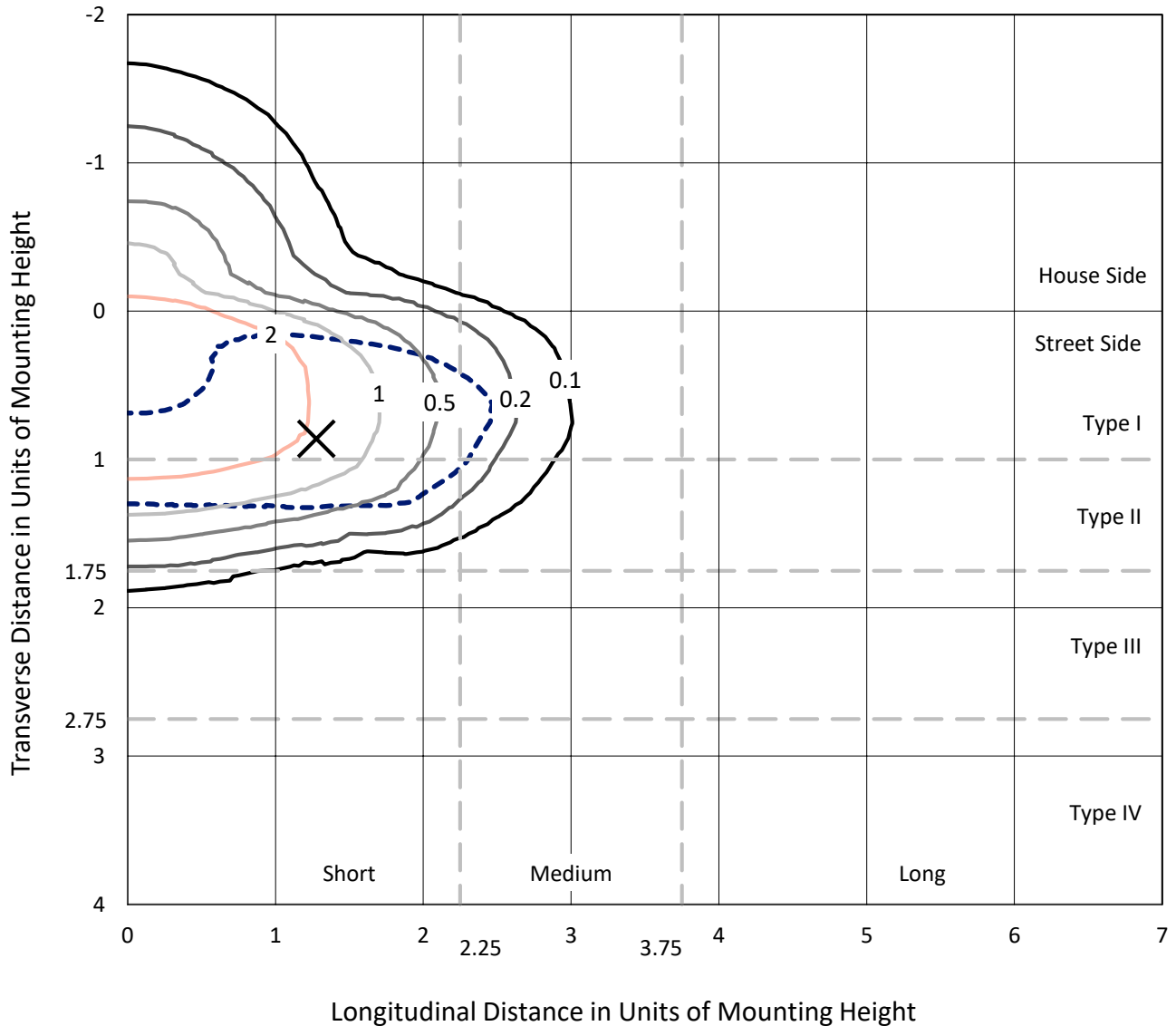
Input Watts (W): 85
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

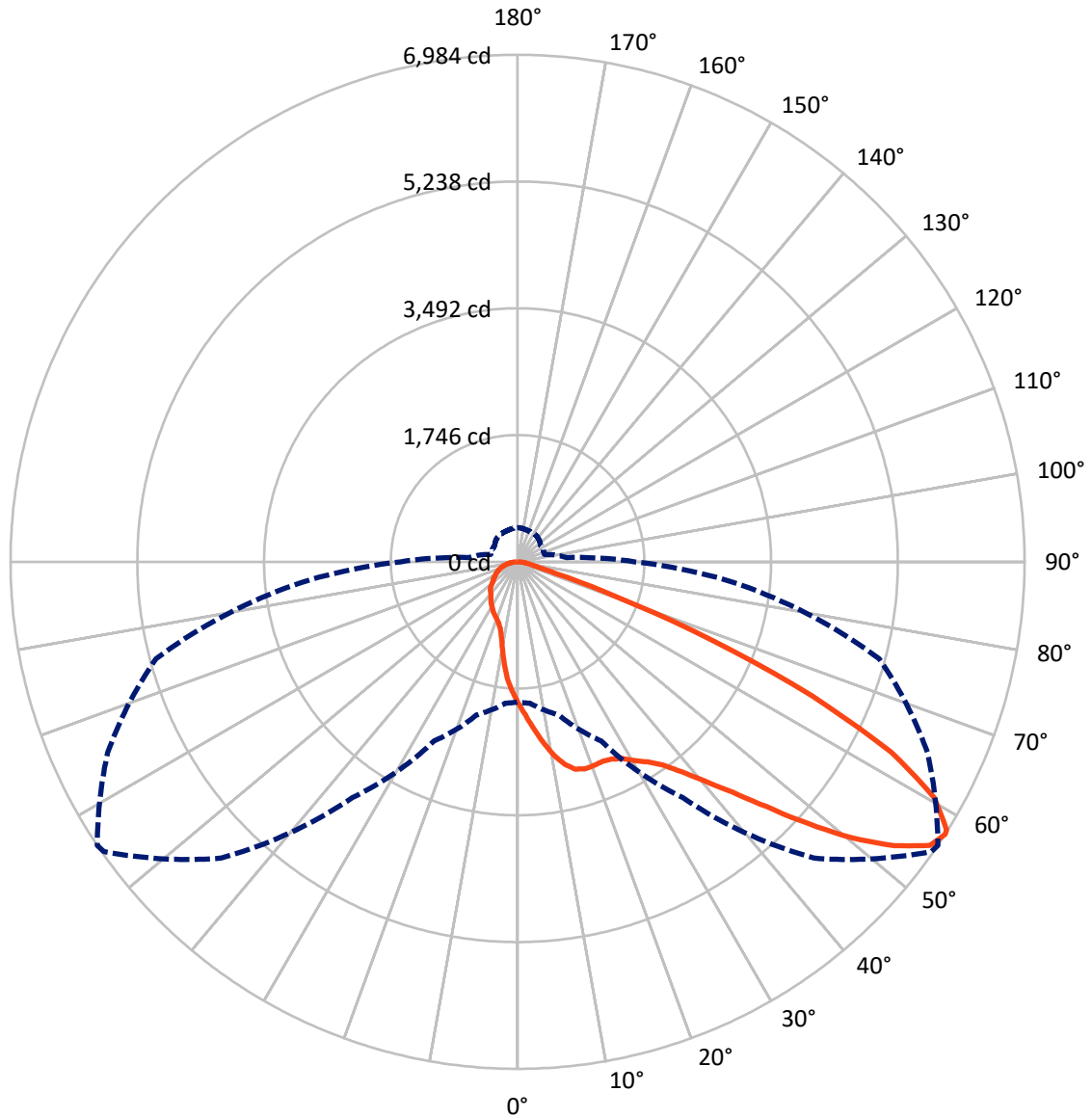
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.3 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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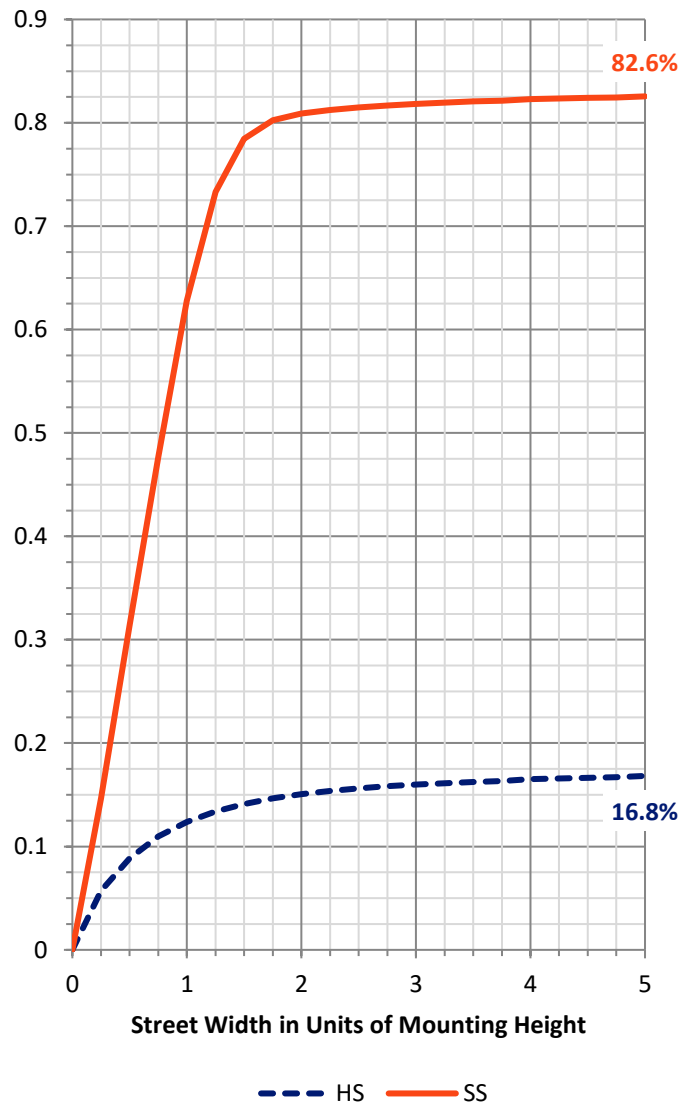
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1520.0	0.0	1520.0
	% Fixture	17.2	0.0	17.2
Street Side	Lumens	7298.0	0.0	7298.0
	% Fixture	82.8	0.0	82.8
Total	Lumens	8818.0	0.0	8818.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	186.8	2.1
10°-20°	528.2	6.0
20°-30°	860.4	9.8
30°-40°	1286.1	14.6
40°-50°	1950.8	22.1
50°-60°	2186.5	24.8
60°-70°	1291.4	14.6
70°-80°	423.1	4.8
80°-90°	104.5	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°	8818.0	100.0
0°-180°	8818.0	100.0

Coefficient of Utilization



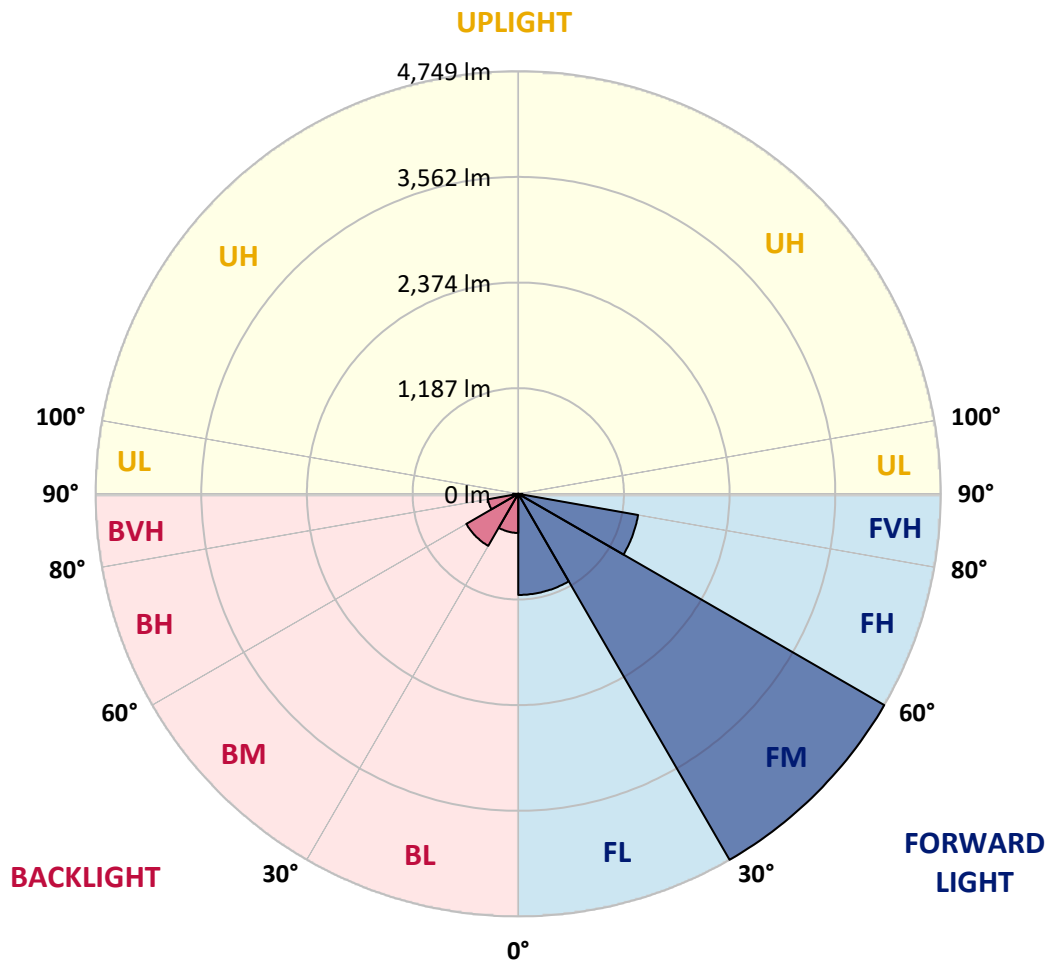
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1135.9	12.9			
FM (30°-60°)	4748.8	53.9			
FH (60°-80°)	1367.3	15.5			G1/1800
FVH (80°-90°)	46.0	0.5			G1/100
BL (0°-30°)	439.5	5.0	B1/500		
BM (30°-60°)	674.7	7.7	B1/1000		
BH (60°-80°)	347.3	3.9	B1/500		G1/500
BVH (80°-90°)	58.5	0.7			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	1955.8	1955.8	1955.8	1955.8	1955.8	1955.8	1955.8	1955.8	1955.8	1955.8	1955.8
2.5°	2245.9	2266.5	2257.4	2225.9	2201.6	2167.4	2129.2	2117.7	2077.4	2032.2	1978.0
5°	2601.3	2591.0	2576.2	2527.1	2475.3	2415.0	2319.2	2304.0	2214.3	2112.2	2004.3
7.5°	2803.8	2802.8	2794.1	2765.3	2718.0	2639.2	2523.7	2505.9	2370.4	2206.2	2038.9
10°	2774.4	2772.2	2786.8	2816.8	2831.0	2814.7	2717.4	2699.5	2533.1	2310.1	2078.9
12.5°	2607.4	2608.6	2631.9	2695.0	2780.7	2883.8	2868.0	2859.2	2701.9	2427.7	2127.4
15°	2477.4	2480.1	2498.6	2553.4	2654.7	2841.6	2959.5	2962.5	2865.3	2557.4	2184.0
17.5°	2420.4	2426.2	2434.6	2473.1	2565.9	2757.7	2981.3	2997.7	3008.3	2691.9	2238.6
20°	2438.6	2444.0	2446.5	2471.0	2547.1	2706.8	2966.2	2995.6	3118.0	2818.6	2293.1
22.5°	2520.1	2523.4	2525.0	2531.3	2590.4	2721.3	2956.2	2987.1	3197.4	2932.2	2334.3
25°	2655.3	2652.8	2643.1	2635.0	2674.7	2778.9	2979.2	3008.6	3262.0	3035.3	2361.3
27.5°	2817.1	2814.1	2795.3	2772.8	2795.6	2868.6	3045.6	3068.9	3319.8	3131.6	2374.9
30°	3011.3	3003.5	2968.0	2941.3	2950.1	3003.2	3155.0	3176.2	3409.2	3241.0	2388.3
32.5°	3235.9	3227.4	3176.2	3132.0	3132.0	3176.2	3267.7	3285.3	3485.0	3364.7	2409.8
35°	3517.1	3506.5	3439.8	3365.6	3344.7	3367.1	3421.4	3433.8	3621.4	3520.5	2448.9
37.5°	3848.6	3834.4	3748.0	3648.6	3602.9	3601.7	3640.8	3666.2	3839.3	3725.0	2515.3
40°	4181.1	4171.1	4095.6	4017.4	3927.7	3899.0	3959.3	3967.1	4124.1	3979.0	2600.1
42.5°	4438.1	4436.2	4422.3	4432.6	4340.8	4282.6	4329.9	4336.2	4472.0	4253.8	2690.4
45°	4573.8	4576.9	4644.4	4794.1	4828.1	4785.7	4809.0	4810.8	4869.6	4531.1	2773.1
47.5°	4465.0	4480.8	4651.7	4986.6	5264.5	5405.4	5366.6	5389.0	5255.1	4769.3	2838.0
50°	4041.1	4060.5	4351.4	4900.8	5468.1	6005.1	5984.8	5979.6	5566.0	4943.8	2873.2
52.5°	3515.9	3531.1	3771.1	4455.0	5318.7	6336.6	6523.0	6496.3	5842.4	5074.5	2879.8
55°	2716.2	2739.8	2969.8	3565.3	4714.4	6210.0	6918.8	6894.8	6094.2	5142.9	2871.9
57°	1931.0	1955.8	2184.3	2721.0	3965.9	5771.5	6958.2	6983.6	6230.3	5154.5	2880.7
57.5°	1723.1	1748.6	1974.9	2496.2	3732.6	5613.0	6924.2	6966.7	6254.8	5152.6	2885.6
60°	867.6	877.3	1021.6	1393.4	2359.5	4537.8	6481.5	6590.9	6276.9	5063.5	2906.5
62.5°	539.4	532.4	527.9	641.8	1147.9	3009.2	5567.8	5778.4	5853.6	4847.8	2855.9
65°	474.3	461.2	411.2	402.1	507.0	1461.6	4192.9	4455.0	4949.0	4507.8	2735.3
67.5°	445.5	432.7	376.4	342.4	342.7	579.4	2603.1	2898.3	3855.3	3932.9	2450.7
70°	415.8	404.3	351.5	311.5	291.8	320.9	1197.6	1421.6	2513.1	3091.3	2048.3
72.5°	377.6	369.7	319.7	278.5	257.6	240.3	458.5	541.5	1454.9	2076.1	1422.5
75°	337.6	330.3	287.6	248.2	222.7	189.1	258.2	278.2	739.1	1062.2	700.3
77.5°	293.6	289.4	255.8	219.4	199.1	156.7	182.7	192.4	317.0	455.5	351.2
80°	233.6	241.8	223.6	195.5	176.7	125.5	129.4	135.8	184.6	222.4	199.4
82.5°	152.1	166.4	175.2	158.8	145.5	98.8	93.0	95.8	120.3	135.8	86.7
85°	63.3	71.2	115.2	103.9	96.7	72.1	62.4	63.6	74.5	77.3	35.5
87.5°	28.2	30.0	50.6	47.6	40.9	24.8	26.7	29.1	39.7	37.6	13.6
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°	1955.8	1955.8	1955.8	1955.8	1955.8	1955.8	1955.8	1955.8	1955.8	1955.8	1955.8
2.5°	1957.7	1932.2	1888.6	1840.4	1801.0	1769.5	1737.6	1715.8	1690.4	1676.7	1669.8
5°	1959.2	1909.2	1817.3	1723.1	1638.9	1561.9	1488.5	1432.2	1379.5	1351.0	1343.1
7.5°	1965.5	1890.4	1741.9	1586.7	1437.0	1300.4	1194.9	1128.8	1081.3	1060.0	1054.0
10°	1970.7	1868.3	1648.6	1418.8	1215.2	1076.7	994.9	957.9	941.6	938.8	936.1
12.5°	1982.8	1845.5	1550.4	1243.7	1042.8	947.0	918.5	916.1	920.6	927.3	927.3
15°	2001.9	1823.1	1438.2	1093.4	933.1	899.4	905.2	918.5	930.9	941.3	942.8
17.5°	2015.8	1795.5	1317.6	973.1	874.6	883.7	904.3	923.1	935.8	945.8	946.7
20°	2025.8	1752.8	1188.8	881.2	840.9	869.1	894.9	911.6	920.3	930.3	931.9
22.5°	2020.7	1695.5	1074.6	815.5	813.7	847.9	872.5	892.5	885.8	876.1	882.5
25°	1995.8	1616.7	957.0	766.4	784.9	819.4	849.7	836.4	814.0	809.7	812.2
27.5°	1951.6	1516.1	848.2	720.9	751.5	793.1	791.2	777.9	770.0	764.6	767.9
30°	1904.0	1407.0	753.1	681.2	714.6	748.8	741.8	741.5	733.7	724.9	729.1
32.5°	1857.0	1297.3	677.6	648.5	686.7	691.2	706.4	710.9	695.5	677.0	675.8
35°	1816.1	1193.7	620.3	618.8	653.1	653.7	675.8	669.4	630.9	611.8	611.8
37.5°	1785.5	1090.3	576.7	592.1	608.8	624.6	635.8	609.4	603.1	592.4	592.1
40°	1772.2	999.4	549.4	571.8	577.6	597.6	568.8	579.1	582.1	576.7	576.7
42.5°	1758.3	920.3	525.8	556.4	555.5	552.8	538.2	551.5	563.7	564.0	563.1
45°	1744.3	852.2	504.9	523.4	536.1	506.7	509.4	523.7	540.6	546.7	546.7
47.5°	1728.9	798.2	485.8	488.5	508.2	488.5	486.4	497.3	517.3	527.0	529.1
50°	1694.9	749.7	464.0	457.9	463.4	470.0	471.8	477.0	499.1	514.6	518.2
52.5°	1647.9	706.4	436.1	429.7	429.7	454.9	463.4	464.9	483.7	502.1	505.8
55°	1608.9	678.8	407.3	406.1	404.9	438.8	453.4	455.8	468.8	483.4	485.2
57°	1611.6	676.7	385.2	386.4	386.1	422.4	444.0	449.1	455.8	468.2	470.3
57.5°	1613.1	678.2	380.3	380.9	380.6	417.9	441.2	447.0	452.1	465.2	467.3
60°	1635.8	682.2	360.6	354.0	355.5	393.7	425.8	433.0	436.4	453.7	456.4
62.5°	1602.2	664.6	344.9	328.8	328.8	368.2	404.3	415.8	420.9	444.3	448.8
65°	1504.6	615.2	326.4	300.3	303.3	342.7	378.5	397.3	405.2	434.3	439.1
67.5°	1354.0	557.9	306.7	274.9	277.9	316.1	351.8	372.1	384.6	423.4	427.3
70°	1157.9	487.9	280.0	247.9	251.5	287.0	320.3	343.3	361.8	413.0	414.3
72.5°	853.7	400.0	242.7	218.2	222.1	253.0	288.5	315.2	340.0	387.3	386.7
75°	507.6	312.7	201.5	188.2	190.9	219.7	259.7	292.1	329.4	377.3	383.0
77.5°	307.9	235.5	164.2	157.6	160.9	190.3	239.1	273.6	324.9	355.8	354.0
80°	186.1	168.2	131.2	127.0	130.3	162.7	221.2	259.7	284.0	304.0	304.0
82.5°	97.3	102.7	96.4	93.0	97.6	132.1	201.2	226.7	250.9	215.5	201.2
85°	39.7	53.6	58.5	58.2	60.9	91.5	173.6	193.9	161.8	153.6	157.3
87.5°	13.3	22.7	28.5	24.5	25.8	57.6	120.3	93.6	111.2	77.6	73.6
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)