

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: P647265

Luminaire Tested: **GALN-SA2D-835-U-AFL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P647265
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-24)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2D-835-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12300.2 lumens
Efficiency: N/A
Efficacy: 98.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

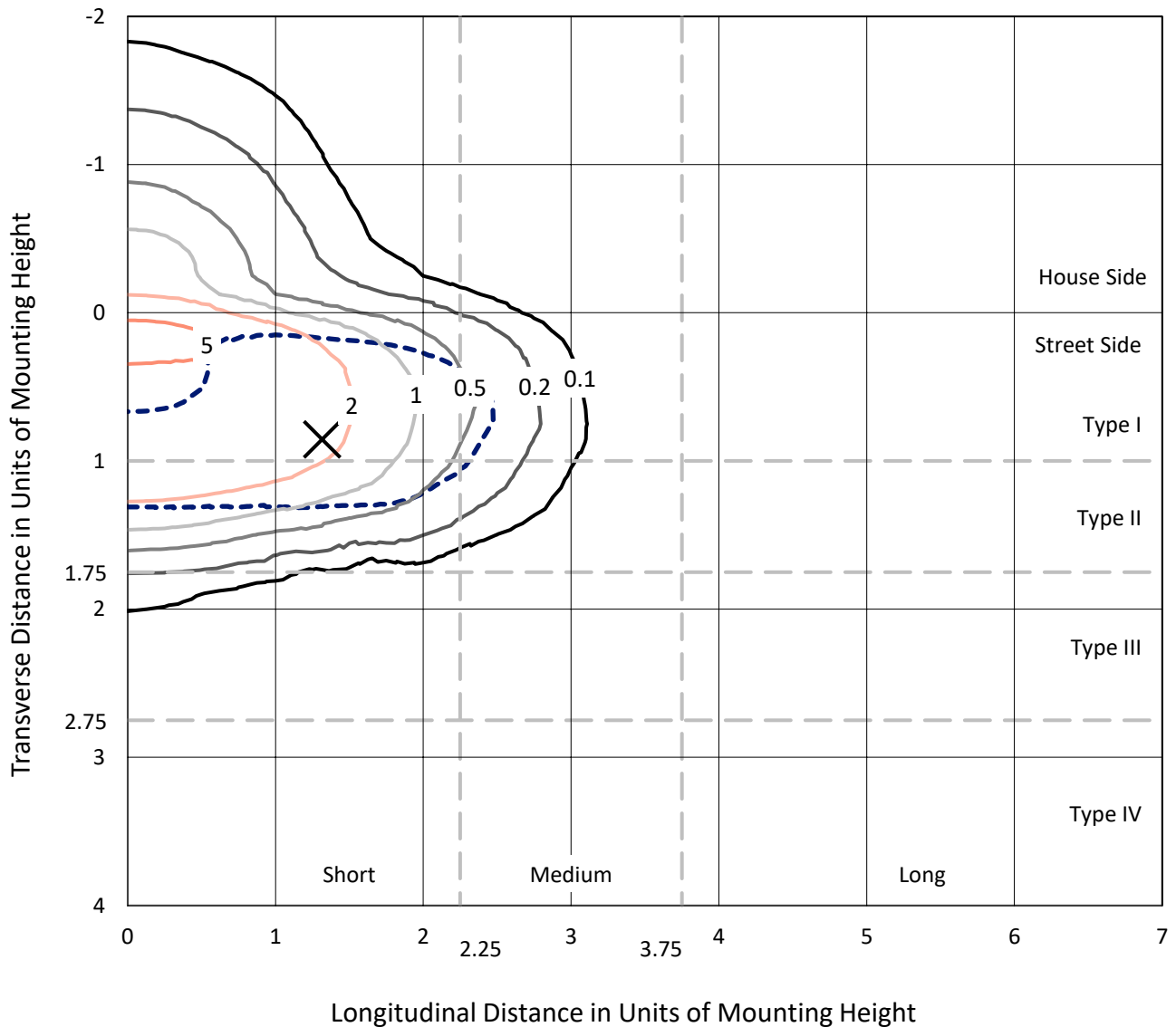
Input Watts (W): 125
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

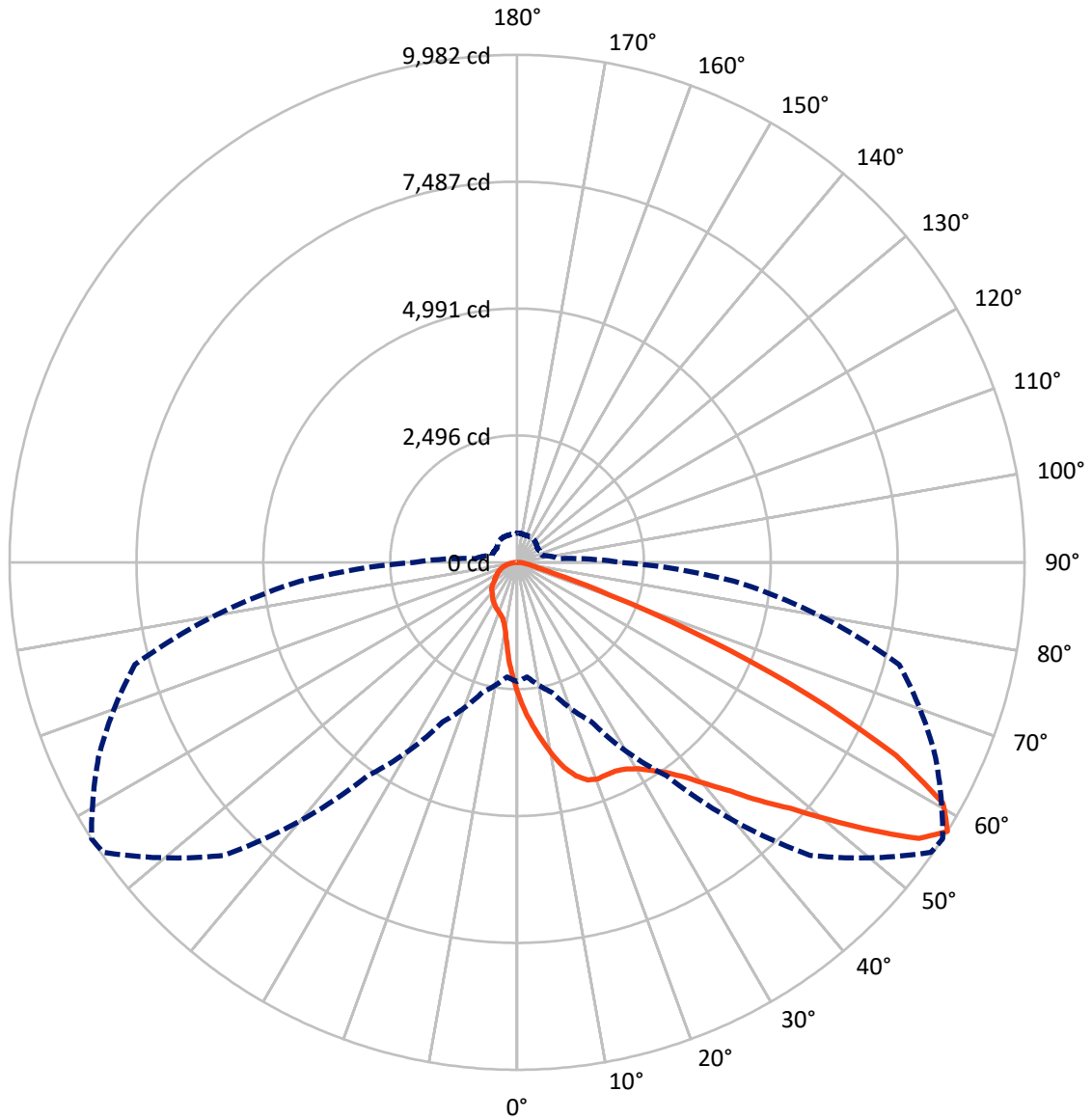
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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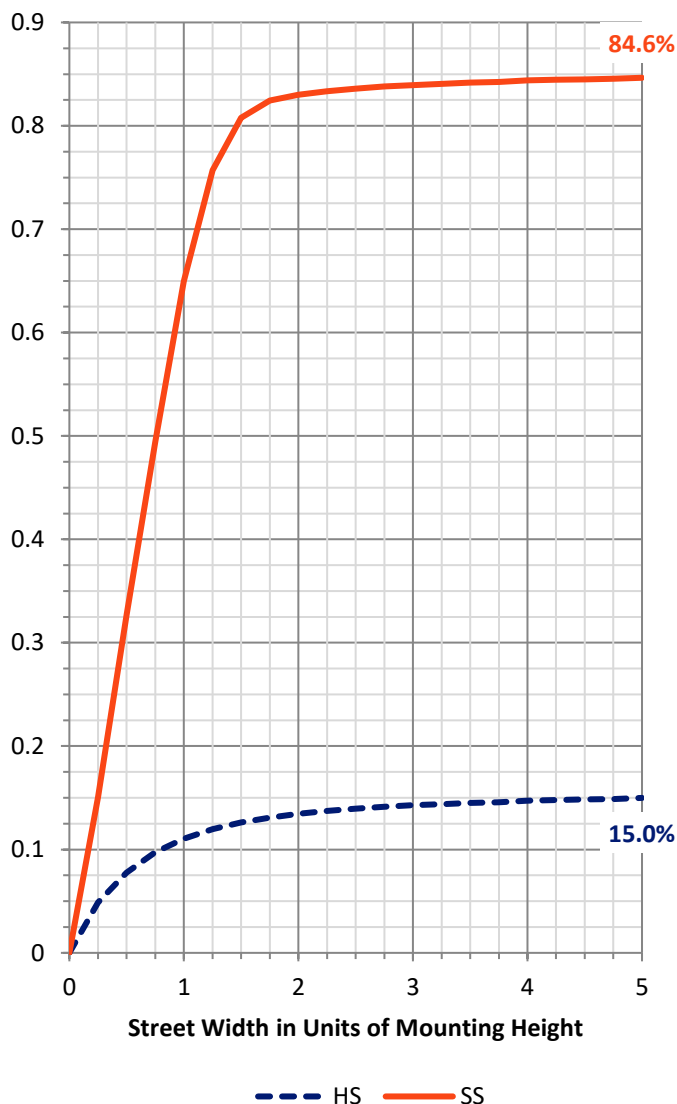
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1870.5	0.0	1870.5
	% Fixture	15.2	0.0	15.2
Street Side	Lumens	10429.6	0.0	10429.6
	% Fixture	84.8	0.0	84.8
Total	Lumens	12300.2	0.0	12300.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	248.4	2.0
10°-20°	731.9	6.0
20°-30°	1215.4	9.9
30°-40°	1830.7	14.9
40°-50°	2748.6	22.3
50°-60°	3080.9	25.0
60°-70°	1803.1	14.7
70°-80°	533.3	4.3
80°-90°	107.8	0.9
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°	12300.2	100.0
0°-180°	12300.2	100.0

Coefficient of Utilization

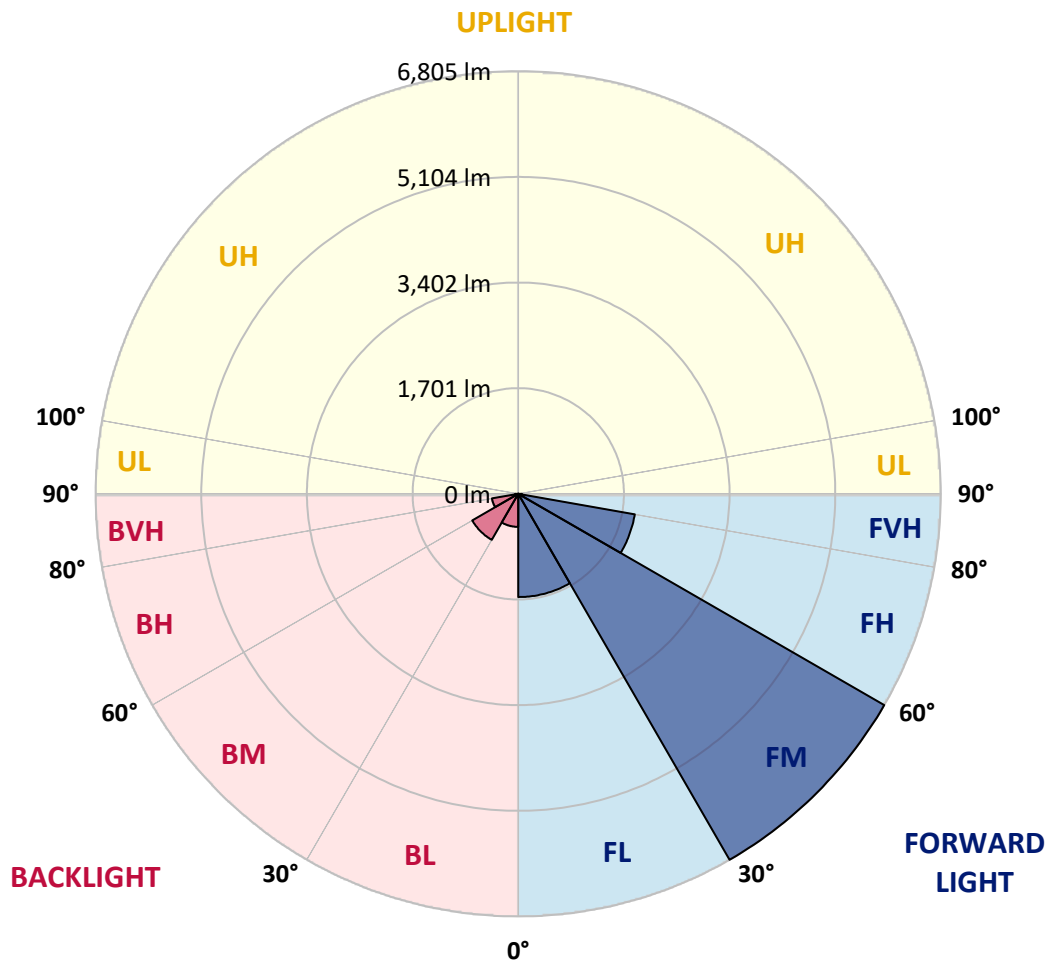


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1662.7	13.5			
FM (30°-60°)	6805.0	55.3			
FH (60°-80°)	1906.0	15.5			G2/5000
FVH (80°-90°)	55.9	0.5			G1/100
BL (0°-30°)	533.0	4.3	B2/1000		
BM (30°-60°)	855.3	7.0	B1/1000		
BH (60°-80°)	430.4	3.5	B1/500		G1/500
BVH (80°-90°)	51.9	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	2584.1	2584.1	2584.1	2584.1	2584.1	2584.1	2584.1	2584.1	2584.1	2584.1	2584.1
2.5°	3210.9	3175.9	3148.4	3124.1	3092.5	3007.0	2921.5	2920.1	2852.1	2747.1	2639.3
5°	3734.1	3687.0	3693.0	3617.6	3542.2	3418.3	3237.2	3227.8	3083.1	2886.5	2686.5
7.5°	4074.8	4075.5	4056.6	4013.5	3932.1	3791.4	3586.0	3539.6	3338.2	3039.9	2740.3
10°	4057.3	4075.5	4107.1	4144.2	4169.1	4099.7	3912.6	3856.0	3594.0	3225.8	2800.2
12.5°	3824.3	3852.6	3897.7	3990.6	4140.8	4255.2	4191.3	4145.5	3890.3	3410.9	2866.2
15°	3678.9	3695.8	3720.7	3783.3	3944.8	4218.9	4384.5	4360.3	4169.7	3620.4	2940.3
17.5°	3634.5	3651.3	3659.4	3697.7	3812.9	4093.7	4460.6	4503.7	4417.5	3812.9	3015.0
20°	3678.9	3687.0	3687.0	3709.9	3800.1	4020.2	4457.2	4544.1	4620.9	4043.8	3085.0
22.5°	3795.4	3798.7	3794.0	3802.1	3869.4	4040.4	4425.6	4533.3	4785.1	4239.8	3139.6
25°	3984.6	3989.9	3959.0	3940.1	3989.3	4129.3	4443.1	4542.1	4913.7	4426.9	3175.9
27.5°	4199.4	4206.1	4168.4	4124.6	4147.6	4239.1	4511.8	4600.7	5010.0	4611.4	3198.9
30°	4462.6	4465.3	4402.0	4349.5	4334.7	4402.7	4628.9	4711.8	5129.8	4828.9	3233.2
32.5°	4731.9	4752.1	4670.7	4596.6	4571.7	4592.6	4802.0	4882.1	5272.6	5062.6	3288.4
35°	5098.2	5101.6	5003.9	4913.7	4831.6	4858.5	5023.5	5081.4	5469.9	5332.5	3366.5
37.5°	5555.4	5586.4	5451.7	5283.4	5182.4	5143.3	5291.4	5354.8	5746.6	5663.8	3484.4
40°	6063.1	6074.5	5959.3	5854.3	5669.9	5556.7	5659.1	5727.7	6088.0	6059.0	3621.0
42.5°	6382.2	6407.1	6415.8	6405.1	6266.4	6076.5	6115.5	6147.9	6491.9	6430.0	3761.1
45°	6489.9	6526.9	6652.2	6917.5	6932.3	6745.1	6654.2	6685.2	6932.3	6804.3	3895.0
47.5°	6311.5	6374.8	6605.7	7149.7	7557.1	7571.2	7297.2	7229.2	7333.6	7114.7	3992.0
50°	5850.3	5863.7	6217.3	7005.0	7850.0	8361.0	8077.6	7951.0	7714.7	7344.3	4058.7
52.5°	5136.6	5152.1	5448.3	6332.4	7669.6	8913.1	8990.6	8764.4	8101.8	7522.8	4102.4
55°	3812.9	3902.5	4228.3	5082.8	6814.4	8861.3	9716.4	9587.8	8569.8	7664.2	4171.1
57.5°	2344.5	2262.3	2648.7	3458.0	5125.1	8148.9	9940.6	9982.3	9084.8	7782.6	4286.2
60°	1078.7	1094.8	1254.4	1783.6	3124.1	6374.8	9362.9	9626.8	9369.6	7778.6	4315.2
62.5°	743.3	728.5	688.1	783.1	1424.7	4031.7	7908.5	8355.6	8798.6	7536.9	4200.0
65°	664.5	649.7	571.7	545.4	654.4	1757.3	5749.3	6313.5	7408.3	6926.9	3913.2
67.5°	620.8	600.6	519.8	468.6	467.3	699.5	3390.1	4069.4	5494.8	5856.4	3390.7
70°	575.0	558.8	478.7	422.2	397.9	439.7	1490.0	1950.5	3567.8	4220.2	2641.4
72.5°	529.2	510.4	438.3	377.7	346.1	329.3	571.0	742.7	2015.8	2530.3	1619.3
75°	462.5	453.1	391.9	342.0	307.7	266.0	362.2	413.4	964.2	1162.1	812.7
77.5°	404.7	394.6	348.1	298.9	274.0	216.1	257.2	280.8	406.7	471.3	366.9
80°	296.3	306.4	293.5	263.9	244.4	169.7	173.0	192.5	241.7	267.3	224.2
82.5°	187.8	206.7	226.2	203.3	185.2	134.0	119.9	127.2	165.0	175.1	99.7
85°	78.8	80.1	131.3	123.9	105.7	79.5	72.0	76.1	88.2	92.2	46.4
87.5°	30.3	29.6	46.4	43.1	33.0	22.9	22.9	25.6	35.0	32.3	14.8
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°	2584.1	2584.1	2584.1	2584.1	2584.1	2584.1	2584.1	2584.1	2584.1	2584.1	2584.1
2.5°	2592.9	2545.1	2450.2	2332.3	2246.1	2149.2	2063.7	2002.4	1979.5	1968.7	1948.5
5°	2590.9	2496.6	2300.0	2094.0	1928.3	1758.6	1615.3	1522.3	1514.2	1452.3	1446.3
7.5°	2591.5	2447.4	2134.4	1831.4	1578.9	1405.2	1286.7	1255.7	1218.7	1209.3	1214.0
10°	2593.5	2384.9	1956.6	1571.5	1327.1	1213.3	1168.9	1156.7	1158.1	1162.1	1162.8
12.5°	2596.3	2324.3	1772.1	1374.2	1185.7	1138.6	1133.9	1144.6	1156.0	1164.8	1166.8
15°	2599.6	2254.9	1592.4	1215.3	1115.0	1110.9	1126.4	1144.6	1160.8	1173.6	1175.6
17.5°	2595.6	2174.1	1441.5	1117.7	1075.9	1095.5	1121.0	1144.0	1158.8	1170.9	1172.2
20°	2586.2	2083.9	1296.1	1049.0	1051.7	1083.4	1110.9	1132.5	1148.7	1154.7	1159.4
22.5°	2549.8	1976.1	1169.5	995.8	1022.8	1066.5	1099.5	1112.3	1094.1	1081.3	1084.7
25°	2487.8	1836.1	1051.7	952.8	996.4	1043.0	1076.6	1045.6	1030.8	1025.4	1028.2
27.5°	2410.4	1682.6	962.9	907.6	962.9	1016.6	1007.3	1001.8	995.1	986.3	988.4
30°	2326.9	1532.4	887.4	872.6	926.4	957.5	961.4	970.2	962.9	949.4	954.7
32.5°	2249.5	1391.0	830.2	843.0	900.8	896.1	926.4	936.5	902.3	857.1	859.1
35°	2183.5	1259.8	787.1	814.0	857.1	859.1	889.4	854.4	817.4	795.8	797.2
37.5°	2133.7	1157.4	758.8	789.1	801.2	826.8	810.6	792.5	787.8	773.0	773.6
40°	2104.1	1067.9	740.6	769.6	767.6	785.0	733.2	751.4	758.1	753.4	754.1
42.5°	2074.4	1004.6	721.8	742.7	742.0	707.7	696.2	711.7	729.2	731.2	729.8
45°	2050.8	955.4	702.3	701.6	715.0	661.2	657.8	667.3	692.2	704.3	703.6
47.5°	2024.6	914.3	672.6	653.8	657.8	632.2	626.9	630.9	661.2	680.7	686.1
50°	1991.6	873.3	635.6	610.0	593.2	605.3	606.7	607.3	637.6	659.8	664.5
52.5°	1965.3	842.3	593.2	574.3	554.1	581.1	591.2	592.5	610.7	628.8	632.2
55°	1980.8	824.8	551.5	538.0	519.8	556.2	575.7	578.4	582.4	595.9	597.9
57.5°	2027.3	828.8	517.8	500.3	486.8	526.5	559.5	561.6	558.8	575.0	577.7
60°	2041.4	826.8	492.8	458.5	450.5	494.9	536.0	540.0	539.3	562.9	567.6
62.5°	1982.2	801.2	467.9	423.5	418.1	462.5	502.9	519.1	522.5	556.2	562.2
65°	1842.8	748.7	435.0	386.5	386.5	428.2	471.3	493.5	502.9	548.1	554.8
67.5°	1659.0	686.8	401.3	354.9	353.4	395.3	437.6	460.6	475.4	536.6	540.7
70°	1376.9	603.3	359.6	320.5	320.5	358.2	396.6	424.2	445.8	515.1	515.1
72.5°	943.3	501.6	309.1	281.4	282.1	317.1	356.2	387.1	412.7	472.0	473.3
75°	596.6	391.9	253.8	239.7	242.4	275.4	315.8	348.1	399.3	466.6	468.6
77.5°	317.1	275.4	202.0	198.6	202.0	232.3	277.4	321.8	400.6	404.7	397.9
80°	205.4	195.3	159.6	152.8	154.2	187.2	247.1	305.7	321.8	325.9	311.1
82.5°	111.7	123.9	113.1	106.4	106.4	146.1	210.7	243.0	230.9	191.9	183.1
85°	47.8	57.9	58.6	51.2	49.2	90.2	141.4	132.6	123.2	117.8	116.5
87.5°	13.5	18.9	18.9	14.2	10.8	24.9	28.3	8.1	0.0	0.7	1.3
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)