

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: P451151

Luminaire Tested: **GALN-SA2A-730-U-AFL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451151
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-SA2A-730-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8457 lumens
Efficiency: N/A
Efficacy: 134.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

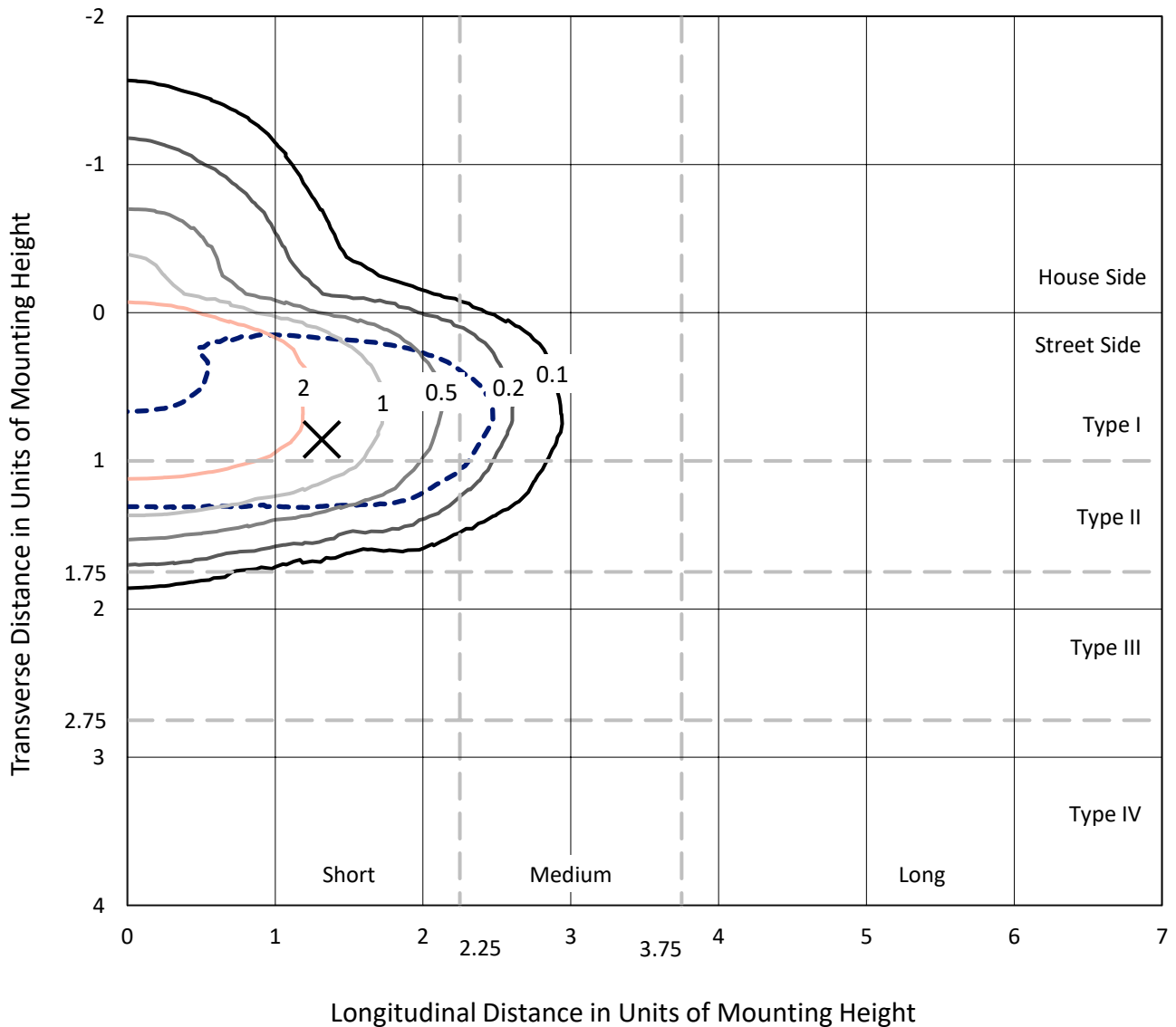
Input Watts (W): 63
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P451151
 CATALOG NUMBER: GALN-SA2A-730-U-AFL

Iso-Footcandle Lines of Horizontal Illumination

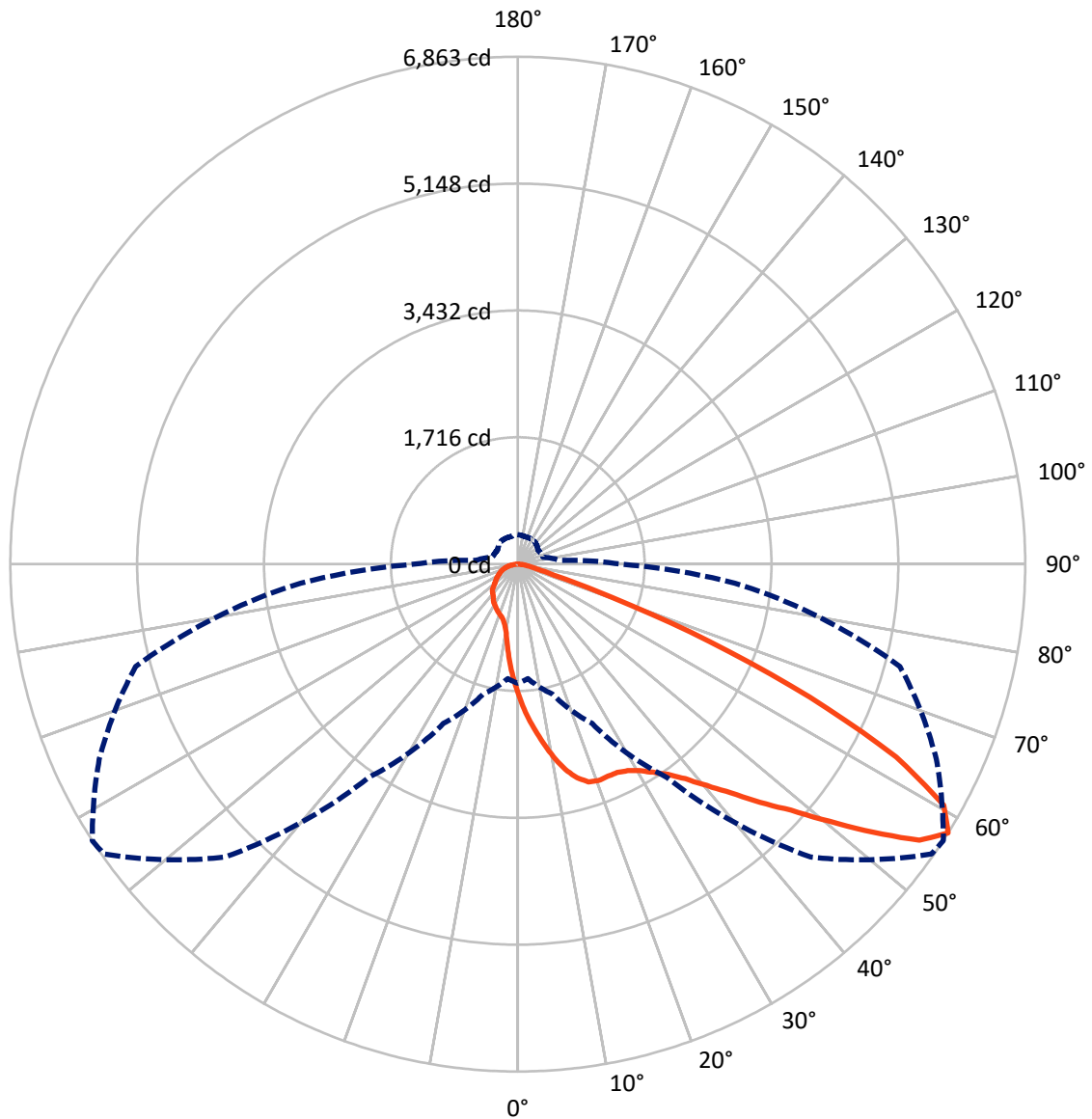
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.3 fc
 Type II - Short - N/A

REPORT NUMBER: P451151
CATALOG NUMBER: GALN-SA2A-730-U-AFL

Luminous Intensity Polar Plot



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

REPORT NUMBER: P451151

CATALOG NUMBER: GALN-SA2A-730-U-AFL

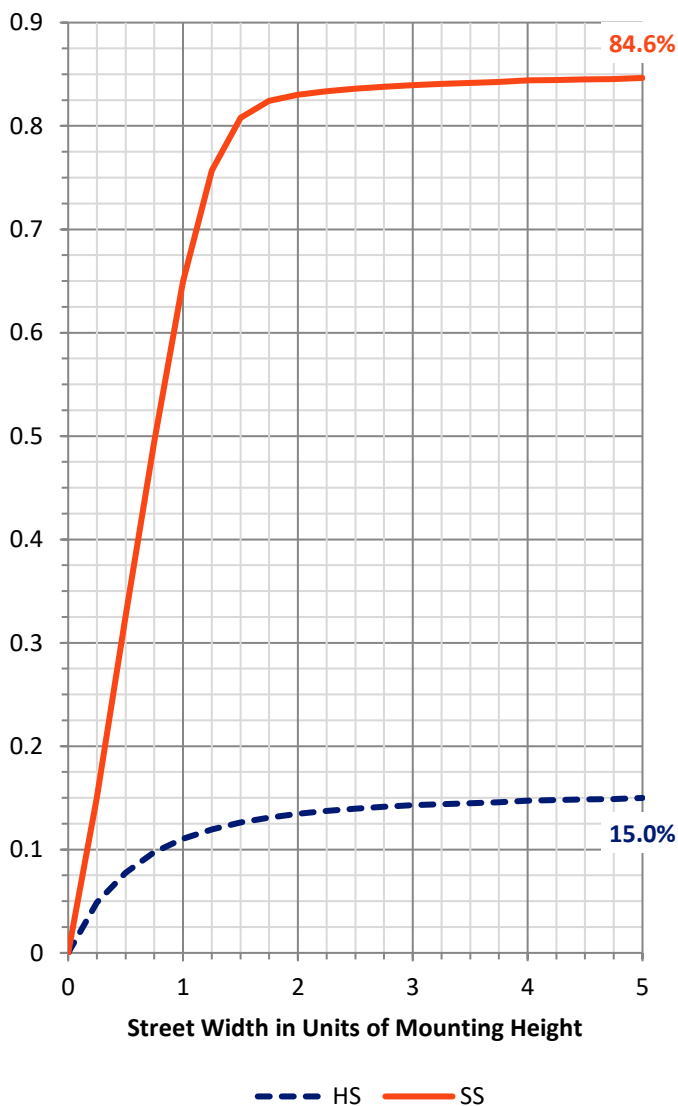
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1286.1	0.0	1286.1
	% Fixture	15.2	0.0	15.2
Street Side	Lumens	7170.9	0.0	7170.9
	% Fixture	84.8	0.0	84.8
Total	Lumens	8457.0	0.0	8457.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	170.8	2.0
10°-20°	503.2	6.0
20°-30°	835.6	9.9
30°-40°	1258.7	14.9
40°-50°	1889.8	22.3
50°-60°	2118.3	25.0
60°-70°	1239.7	14.7
70°-80°	366.7	4.3
80°-90°	74.1	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°	8457.0	100.0
0°-180°	8457.0	100.0

Coefficient of Utilization



REPORT NUMBER: P451151

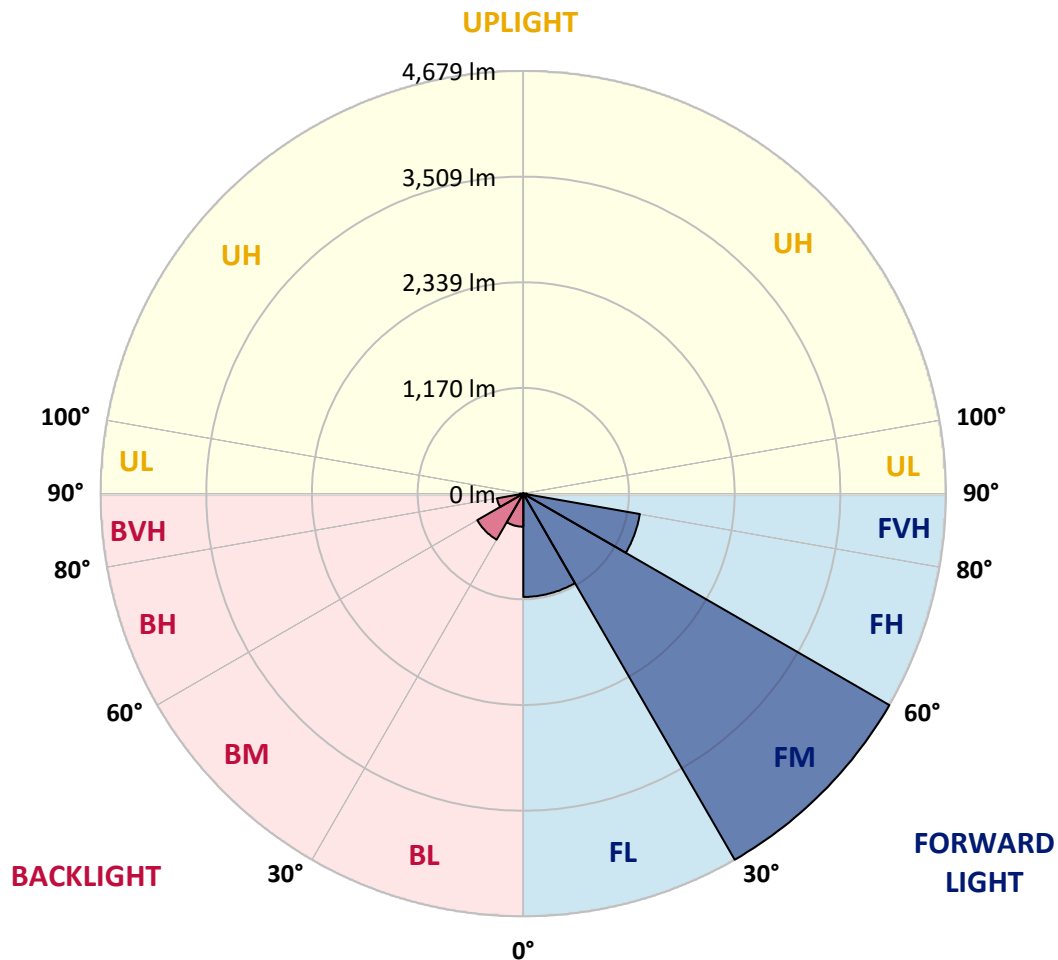
CATALOG NUMBER: GALN-SA2A-730-U-AFL

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1143.2	13.5			
FM	(30°-60°)	4678.8	55.3			
FH	(60°-80°)	1310.5	15.5			G1/1800
FVH	(80°-90°)	38.5	0.5			G1/100
BL	(0°-30°)	366.4	4.3	B1/500		
BM	(30°-60°)	588.0	7.0	B1/1000		
BH	(60°-80°)	295.9	3.5	B1/500		G1/500
BVH	(80°-90°)	35.7	0.4			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





REPORT NUMBER: P451151

CATALOG NUMBER: GALN-SA2A-730-U-AFL

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	1776.7	1776.7	1776.7	1776.7	1776.7	1776.7	1776.7	1776.7	1776.7	1776.7	1776.7
2.5°	2207.7	2183.6	2164.7	2148.0	2126.2	2067.4	2008.6	2007.7	1961.0	1888.7	1814.7
5°	2567.4	2535.0	2539.2	2487.3	2435.5	2350.3	2225.8	2219.3	2119.7	1984.6	1847.1
7.5°	2801.6	2802.1	2789.1	2759.5	2703.5	2606.7	2465.6	2433.6	2295.2	2090.1	1884.1
10°	2789.6	2802.1	2823.9	2849.3	2866.5	2818.8	2690.1	2651.2	2471.1	2217.9	1925.3
12.5°	2629.4	2648.9	2679.9	2743.8	2847.0	2925.7	2881.7	2850.2	2674.8	2345.2	1970.7
15°	2529.4	2541.0	2558.1	2601.2	2712.3	2900.7	3014.6	2997.9	2866.9	2489.2	2021.6
17.5°	2498.9	2510.5	2516.0	2542.4	2621.6	2814.6	3066.9	3096.5	3037.3	2621.6	2073.0
20°	2529.4	2535.0	2535.0	2550.7	2612.8	2764.1	3064.6	3124.3	3177.1	2780.3	2121.1
22.5°	2609.5	2611.8	2608.6	2614.2	2660.4	2778.0	3042.8	3116.9	3290.0	2915.1	2158.6
25°	2739.6	2743.3	2722.0	2709.1	2742.9	2839.1	3054.9	3122.9	3378.5	3043.8	2183.6
27.5°	2887.3	2891.9	2866.0	2835.9	2851.6	2914.6	3102.1	3163.2	3444.6	3170.6	2199.4
30°	3068.3	3070.1	3026.6	2990.5	2980.3	3027.1	3182.6	3239.6	3527.1	3320.1	2223.0
32.5°	3253.5	3267.3	3211.3	3160.4	3143.3	3157.6	3301.6	3356.7	3625.2	3480.8	2260.9
35°	3505.3	3507.6	3440.5	3378.5	3322.0	3340.5	3453.9	3493.7	3760.8	3666.4	2314.6
37.5°	3819.6	3840.9	3748.3	3632.6	3563.2	3536.3	3638.2	3681.7	3951.1	3894.2	2395.7
40°	4168.7	4176.5	4097.4	4025.2	3898.3	3820.5	3890.9	3938.1	4185.8	4165.9	2489.6
42.5°	4388.1	4405.2	4411.2	4403.8	4308.5	4177.9	4204.8	4227.0	4463.6	4421.0	2585.9
45°	4462.2	4487.6	4573.7	4756.1	4766.3	4637.6	4575.1	4596.4	4766.3	4678.4	2678.0
47.5°	4339.5	4383.0	4541.8	4915.8	5195.9	5205.6	5017.2	4970.5	5042.2	4891.8	2744.7
50°	4022.4	4031.6	4274.7	4816.3	5397.3	5748.6	5553.8	5466.7	5304.2	5049.6	2790.5
52.5°	3531.7	3542.3	3746.0	4353.8	5273.2	6128.2	6181.5	6025.9	5570.4	5172.3	2820.6
55°	2621.6	2683.1	2907.2	3494.6	4685.3	6092.6	6680.5	6592.1	5892.2	5269.5	2867.8
57.5°	1611.9	1555.4	1821.2	2377.6	3523.8	5602.8	6834.7	6863.4	6246.3	5351.0	2947.0
60°	741.6	752.7	862.4	1226.3	2148.0	4383.0	6437.5	6618.9	6442.1	5348.2	2966.9
62.5°	511.1	500.9	473.1	538.4	979.6	2772.0	5437.6	5744.9	6049.5	5182.0	2887.7
65°	456.9	446.7	393.0	375.0	450.0	1208.2	3952.9	4340.9	5093.6	4762.6	2690.5
67.5°	426.8	412.9	357.4	322.2	321.3	481.0	2330.8	2797.9	3778.0	4026.6	2331.3
70°	395.3	384.2	329.1	290.3	273.6	302.3	1024.5	1341.1	2453.1	2901.6	1816.1
72.5°	363.9	350.9	301.4	259.7	237.9	226.4	392.6	510.6	1386.0	1739.7	1113.3
75°	318.0	311.6	269.4	235.2	211.6	182.9	249.1	284.2	662.9	799.0	558.8
77.5°	278.2	271.3	239.3	205.5	188.4	148.6	176.8	193.0	279.6	324.0	252.3
80°	203.7	210.6	201.8	181.5	168.0	116.7	119.0	132.4	166.2	183.8	154.2
82.5°	129.2	142.1	155.5	139.8	127.3	92.1	82.4	87.5	113.4	120.4	68.5
85°	54.2	55.1	90.3	85.2	72.7	54.6	49.5	52.3	60.6	63.4	31.9
87.5°	20.8	20.4	31.9	29.6	22.7	15.7	15.7	17.6	24.1	22.2	10.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P451151
 CATALOG NUMBER: GALN-SA2A-730-U-AFL

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1776.7	1776.7	1776.7	1776.7	1776.7	1776.7	1776.7	1776.7	1776.7	1776.7	1776.7
2.5°	1782.7	1749.9	1684.6	1603.6	1544.3	1477.7	1418.9	1376.7	1361.0	1353.6	1339.7
5°	1781.3	1716.5	1581.4	1439.7	1325.8	1209.2	1110.6	1046.7	1041.1	998.5	994.4
7.5°	1781.8	1682.7	1467.5	1259.2	1085.6	966.1	884.7	863.4	837.9	831.4	834.7
10°	1783.2	1639.7	1345.3	1080.5	912.4	834.2	803.6	795.3	796.2	799.0	799.5
12.5°	1785.1	1598.0	1218.4	944.8	815.2	782.8	779.6	787.0	794.8	800.9	802.3
15°	1787.4	1550.3	1094.8	835.6	766.6	763.8	774.5	787.0	798.1	806.9	808.3
17.5°	1784.6	1494.8	991.1	768.5	739.8	753.2	770.8	786.5	796.7	805.0	806.0
20°	1778.1	1432.8	891.1	721.2	723.1	744.9	763.8	778.6	789.8	793.9	797.2
22.5°	1753.1	1358.7	804.1	684.7	703.2	733.3	756.0	764.8	752.3	743.5	745.8
25°	1710.5	1262.4	723.1	655.0	685.1	717.1	740.2	718.9	708.7	705.0	706.9
27.5°	1657.3	1156.9	662.0	624.0	662.0	699.0	692.5	688.8	684.2	678.2	679.6
30°	1599.9	1053.6	610.1	600.0	637.0	658.3	661.1	667.1	662.0	652.7	656.4
32.5°	1546.6	956.4	570.8	579.6	619.4	616.2	637.0	643.9	620.3	589.3	590.7
35°	1501.3	866.1	541.2	559.7	589.3	590.7	611.5	587.5	562.0	547.2	548.1
37.5°	1467.0	795.8	521.7	542.6	550.9	568.5	557.4	544.9	541.6	531.4	531.9
40°	1446.7	734.2	509.2	529.1	527.7	539.8	504.1	516.6	521.3	518.0	518.5
42.5°	1426.3	690.7	496.3	510.6	510.1	486.5	478.7	489.3	501.4	502.7	501.8
45°	1410.1	656.9	482.8	482.4	491.6	454.6	452.3	458.8	475.9	484.2	483.8
47.5°	1392.0	628.7	462.5	449.5	452.3	434.7	431.0	433.8	454.6	468.0	471.7
50°	1369.3	600.4	437.0	419.4	407.8	416.2	417.1	417.6	438.4	453.7	456.9
52.5°	1351.3	579.1	407.8	394.9	381.0	399.5	406.5	407.4	419.9	432.4	434.7
55°	1361.9	567.1	379.1	369.9	357.4	382.4	395.8	397.7	400.4	409.7	411.1
57.5°	1393.9	569.9	356.0	344.0	334.7	362.0	384.7	386.1	384.2	395.3	397.2
60°	1403.6	568.5	338.9	315.3	309.7	340.3	368.5	371.3	370.8	387.0	390.2
62.5°	1362.9	550.9	321.7	291.2	287.5	318.0	345.8	356.9	359.2	382.4	386.5
65°	1267.0	514.8	299.1	265.7	265.7	294.4	324.0	339.3	345.8	376.8	381.5
67.5°	1140.7	472.2	275.9	244.0	243.0	271.7	300.9	316.6	326.8	369.0	371.7
70°	946.7	414.8	247.2	220.4	220.4	246.3	272.7	291.6	306.5	354.1	354.1
72.5°	648.6	344.9	212.5	193.5	194.0	218.0	244.9	266.2	283.8	324.5	325.4
75°	410.2	269.4	174.5	164.8	166.7	189.3	217.1	239.3	274.5	320.8	322.2
77.5°	218.0	189.3	138.9	136.6	138.9	159.7	190.7	221.3	275.4	278.2	273.6
80°	141.2	134.2	109.7	105.1	106.0	128.7	169.9	210.2	221.3	224.1	213.9
82.5°	76.8	85.2	77.8	73.1	73.1	100.5	144.9	167.1	158.8	131.9	125.9
85°	32.9	39.8	40.3	35.2	33.8	62.0	97.2	91.2	84.7	81.0	80.1
87.5°	9.3	13.0	13.0	9.7	7.4	17.1	19.4	5.6	0.0	0.5	0.9
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)