

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: P453925

Luminaire Tested: **GALN-SA5A-727-U-T3R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453925
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-9)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA5A-727-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14995 lumens
Efficiency: N/A
Efficacy: 97.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G3

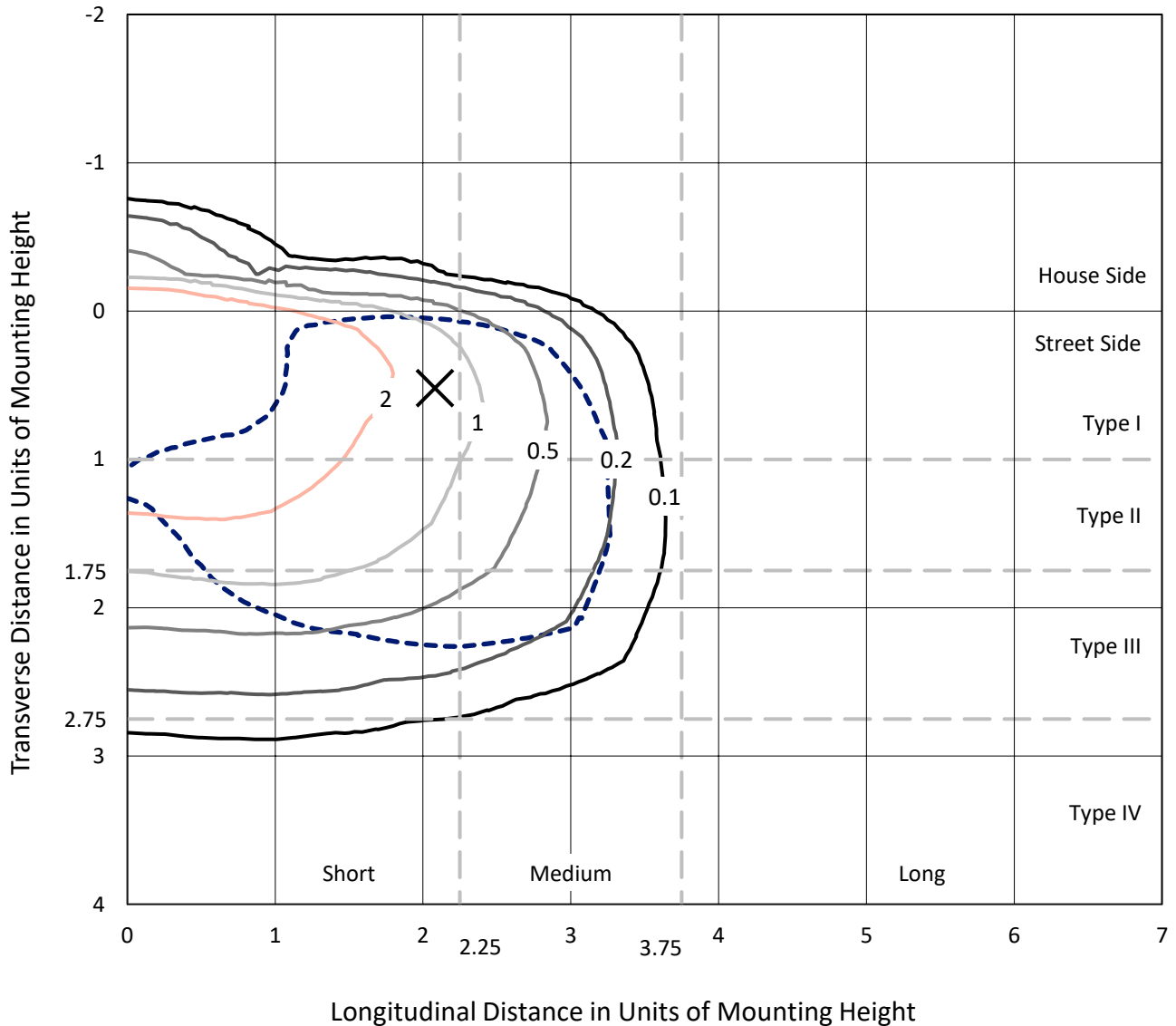
Input Watts (W): 154
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P453925
 CATALOG NUMBER: GALN-SA5A-727-U-T3R-HSS

Iso-Footcandle Lines of Horizontal Illumination

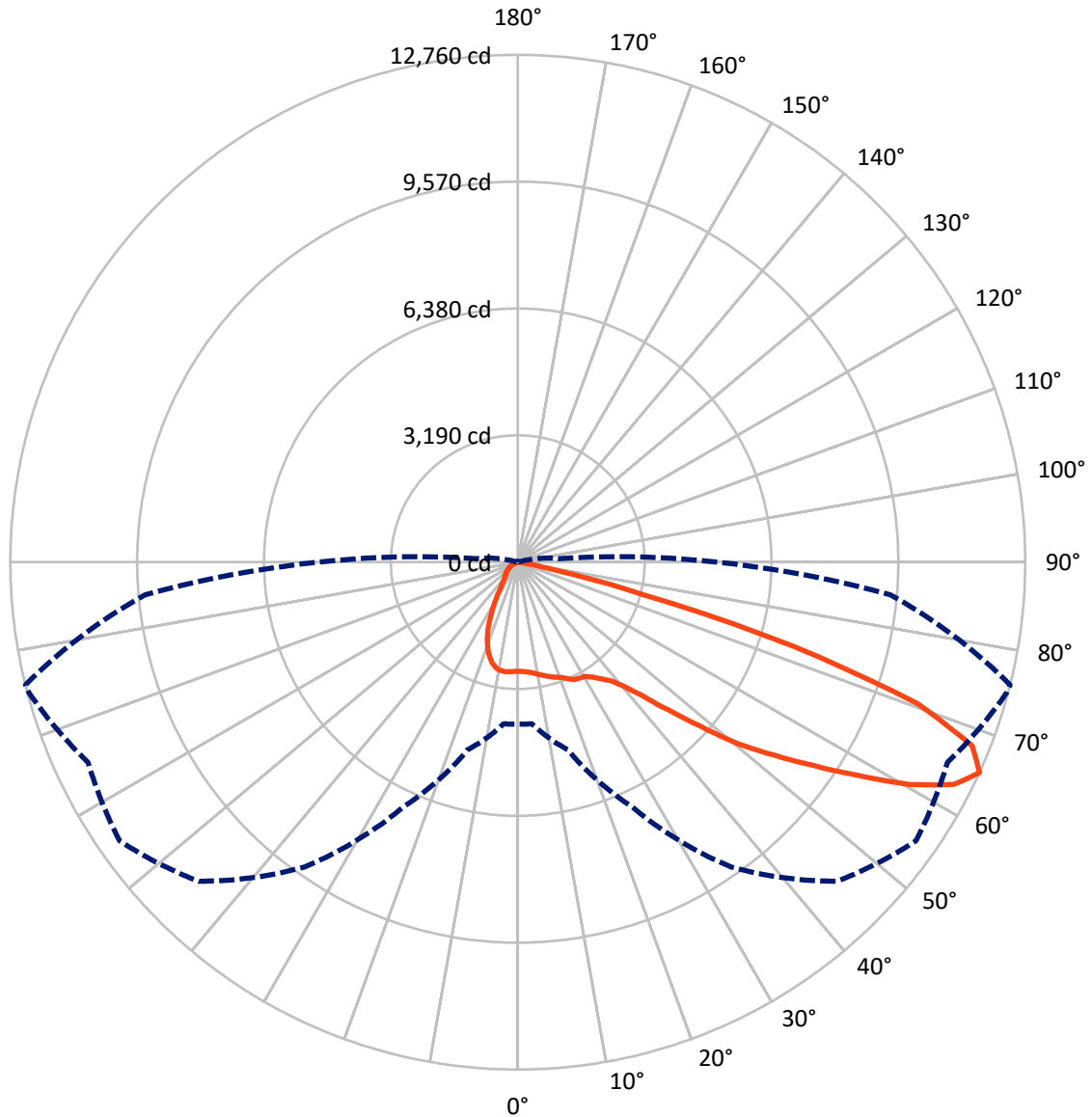
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 fc
 Type III - Short - N/A

REPORT NUMBER: P453925
CATALOG NUMBER: GALN-SA5A-727-U-T3R-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

REPORT NUMBER: P453925

CATALOG NUMBER: GALN-SA5A-727-U-T3R-HSS

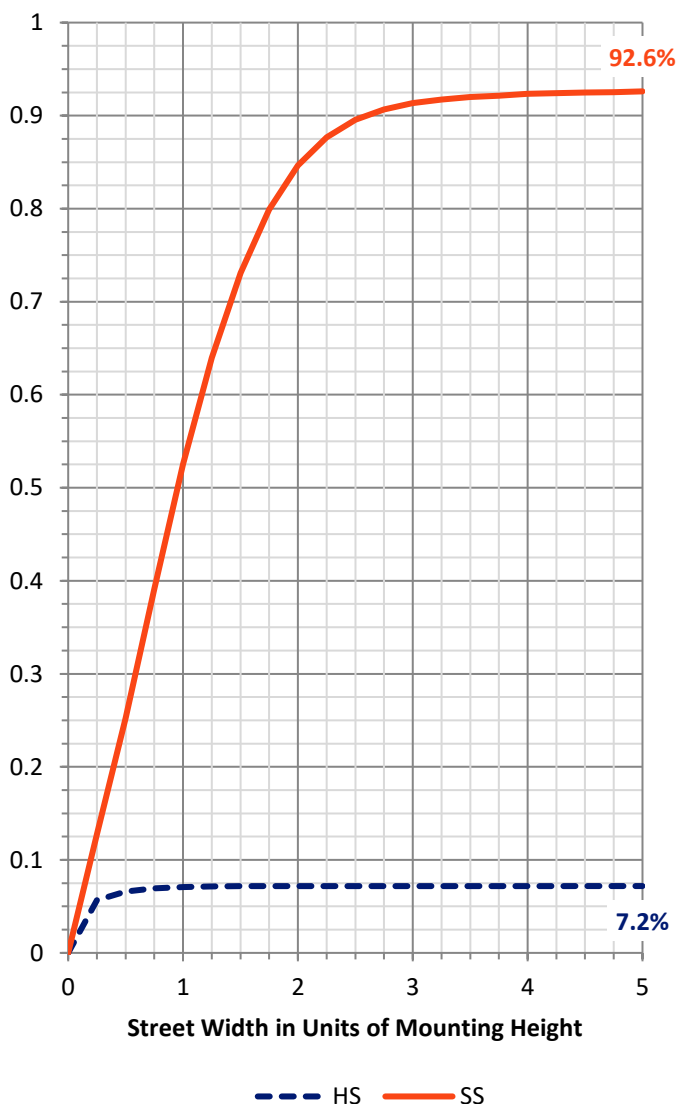
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1082.9	0.0	1082.9
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	13912.1	0.0	13912.1
	% Fixture	92.8	0.0	92.8
Total	Lumens	14995.0	0.0	14995.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	226.0	1.5
10°-20°	503.1	3.4
20°-30°	810.7	5.4
30°-40°	1409.7	9.4
40°-50°	2329.4	15.5
50°-60°	3598.5	24.0
60°-70°	4394.2	29.3
70°-80°	1667.7	11.1
80°-90°	55.7	0.4
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°	14995.0	100.0
0°-180°	14995.0	100.0

Coefficient of Utilization



REPORT NUMBER: P453925

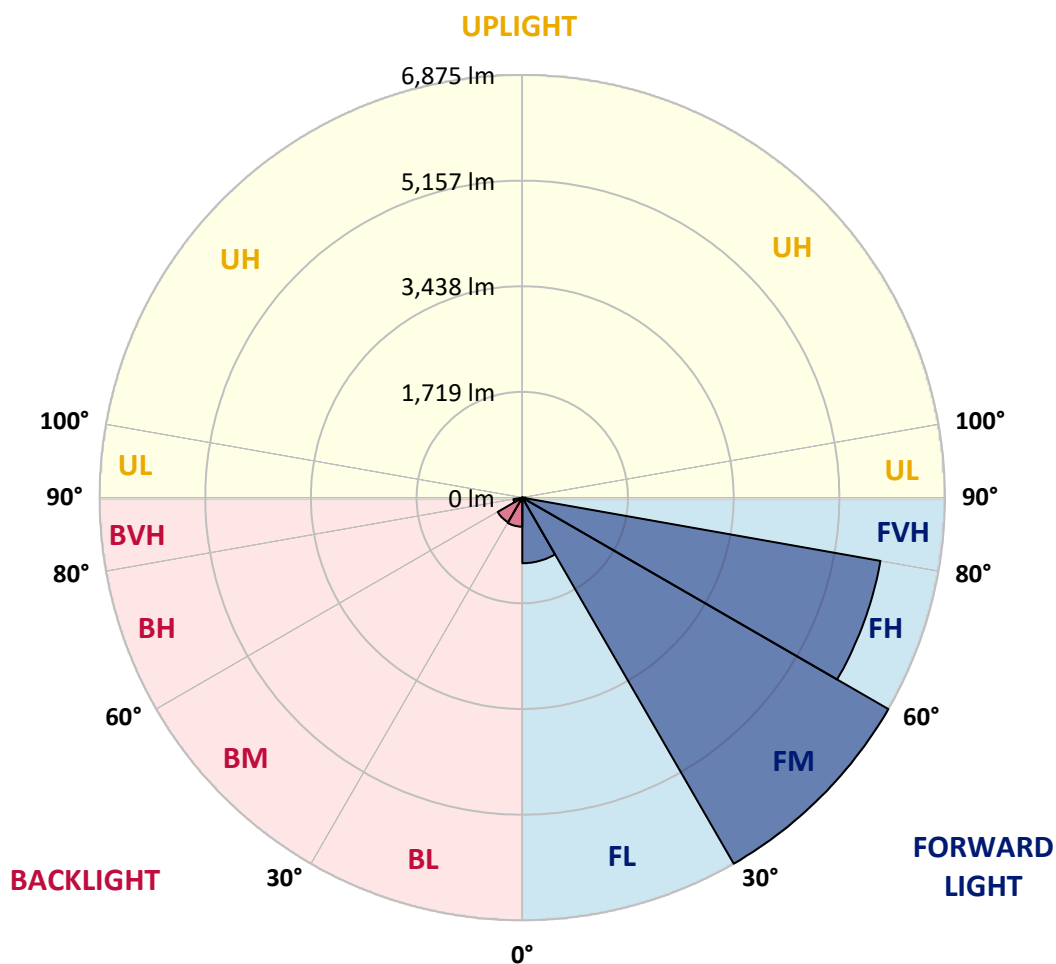
CATALOG NUMBER: GALN-SA5A-727-U-T3R-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1066.7	7.1			
FM (30°-60°)	6875.4	45.9			
FH (60°-80°)	5915.0	39.4			G3/7500
FVH (80°-90°)	54.9	0.4			G1/100
BL (0°-30°)	473.1	3.2	B1/500		
BM (30°-60°)	462.1	3.1	B1/1000		
BH (60°-80°)	146.9	1.0	B1/500		G1/500
BVH (80°-90°)	0.8	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type III Short





REPORT NUMBER: P453925

CATALOG NUMBER: GALN-SA5A-727-U-T3R-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2743.1	2743.1	2743.1	2743.1	2743.1	2743.1	2743.1	2743.1	2743.1	2743.1	2743.1
2.5°	2621.3	2622.4	2628.7	2644.6	2669.0	2689.1	2706.0	2733.5	2752.6	2754.7	2761.1
5°	2440.3	2427.6	2440.3	2481.6	2518.6	2574.7	2643.5	2712.4	2773.8	2778.0	2807.6
7.5°	2237.0	2247.6	2267.7	2310.1	2379.9	2465.7	2565.2	2688.0	2804.5	2815.1	2873.3
10°	2030.6	2053.9	2086.7	2151.3	2248.7	2359.8	2495.3	2671.1	2853.2	2868.0	2968.6
12.5°	1840.0	1850.6	1890.8	1977.6	2098.3	2255.0	2442.4	2661.5	2907.2	2925.2	3070.2
15°	1693.9	1707.7	1742.6	1820.9	1955.4	2156.6	2399.0	2658.4	2960.1	2985.5	3171.8
17.5°	1666.4	1674.8	1689.7	1742.6	1860.1	2078.2	2359.8	2657.3	3010.9	3041.6	3266.1
20°	1779.7	1772.2	1757.4	1752.1	1816.7	2017.9	2331.2	2665.8	3059.6	3094.5	3365.6
22.5°	2063.4	2072.9	1986.1	1883.4	1862.2	2008.3	2327.0	2706.0	3136.9	3178.2	3476.7
25°	2665.8	2592.7	2457.2	2211.6	2026.3	2066.6	2374.6	2801.3	3226.9	3272.4	3577.3
27.5°	3331.7	3309.5	3098.8	2694.4	2349.2	2189.4	2459.3	2874.3	3256.5	3303.1	3634.5
30°	3986.0	4012.4	3771.1	3324.3	2818.2	2417.0	2538.7	2901.9	3283.0	3331.7	3707.5
32.5°	4592.6	4624.4	4412.6	3970.1	3370.9	2810.8	2675.3	3008.8	3394.2	3443.9	3829.3
35°	5070.1	5074.3	4914.4	4561.9	3974.3	3289.3	2970.7	3196.2	3544.5	3602.7	3958.4
37.5°	5508.4	5502.0	5314.6	5010.8	4477.2	3764.7	3342.3	3412.2	3716.0	3776.3	4144.8
40°	5833.4	5837.6	5777.3	5491.4	4946.2	4204.1	3636.6	3614.4	4004.0	4098.2	4415.8
42.5°	6050.4	6089.6	6119.2	5974.2	5535.9	4745.0	4088.7	4047.4	4503.7	4582.0	4799.0
45°	6226.2	6296.0	6444.2	6436.8	6102.3	5408.8	4709.1	4624.4	5211.9	5295.6	5287.1
47.5°	6354.3	6425.2	6670.8	6819.0	6634.8	6052.5	5489.3	5416.3	6057.8	6148.9	5826.0
50°	6419.9	6504.6	6818.0	7104.9	7050.9	6672.9	6378.6	6382.8	7079.5	7167.3	6450.6
52.5°	6266.4	6376.5	6896.3	7412.9	7517.8	7266.8	7211.8	7351.5	7988.9	8064.0	7014.9
55°	5776.2	5914.9	6789.4	7675.5	8058.7	7967.7	8158.3	8371.1	8983.0	9031.7	7594.0
57.5°	5466.0	5613.2	6473.9	7898.9	8708.8	8848.5	9150.3	9305.9	10008.8	10132.7	8258.8
60°	5204.5	5319.9	6214.5	7946.5	9369.4	9926.3	10219.5	10380.4	11275.0	11355.5	8990.4
62.5°	4769.4	4901.7	5776.2	7614.1	9701.8	10789.1	11396.8	11324.8	12254.3	12310.4	9439.3
65°	4069.6	4081.2	4886.9	6778.8	9358.8	11349.1	12223.6	11921.9	12722.3	12760.4	9404.3
67.5°	3037.4	3149.6	3759.4	5328.4	7905.2	10870.6	12491.5	11937.8	12426.9	12321.0	8658.0
70°	1956.5	2042.2	2548.3	3694.8	5700.0	9071.9	11603.2	11119.4	10906.6	10671.6	7086.9
72.5°	903.1	1013.2	1513.9	2111.0	3380.4	6462.2	9419.2	9033.8	7850.2	7270.0	4504.7
75°	393.8	421.4	747.4	1113.7	1584.9	3417.4	6210.3	5607.9	3545.6	3238.5	1802.9
77.5°	240.3	258.3	391.7	597.1	622.5	1302.2	3345.5	2446.6	1095.7	966.6	489.1
80°	163.0	183.2	284.8	312.3	212.8	363.1	1255.6	653.2	221.3	211.7	104.8
82.5°	79.4	100.6	210.7	174.7	92.1	116.5	365.2	139.7	64.6	60.3	37.1
85°	11.6	20.1	118.6	114.3	41.3	27.5	64.6	34.9	22.2	21.2	16.9
87.5°	0.0	0.0	40.2	18.0	4.2	4.2	7.4	7.4	8.5	7.4	8.5
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: P453925

CATALOG NUMBER: GALN-SA5A-727-U-T3R-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2743.1	2743.1	2743.1	2743.1	2743.1	2743.1	2743.1	2743.1	2743.1	2743.1	2743.1
2.5°	2764.2	2769.5	2749.4	2720.8	2690.1	2659.4	2616.0	2576.8	2553.6	2567.3	2533.4
5°	2814.0	2809.8	2756.8	2670.0	2554.6	2415.9	2278.3	2160.8	2122.7	2065.5	2059.2
7.5°	2882.8	2871.2	2758.9	2559.9	2299.5	2039.0	1785.0	1616.6	1520.3	1438.8	1440.9
10°	2979.2	2945.3	2734.6	2366.2	1937.4	1544.6	1220.7	998.3	902.0	871.3	847.0
12.5°	3078.7	3013.0	2666.8	2104.7	1508.6	1055.5	742.1	606.6	547.3	528.3	526.2
15°	3167.6	3063.8	2548.3	1790.2	1096.8	674.4	506.1	461.6	454.2	455.2	454.2
17.5°	3255.5	3104.1	2384.2	1456.8	745.3	483.8	435.1	424.5	427.7	431.9	430.9
20°	3328.5	3112.5	2174.5	1111.6	527.2	424.5	408.7	406.5	409.7	412.9	412.9
22.5°	3407.9	3118.9	1925.8	769.7	430.9	394.9	386.4	386.4	390.7	394.9	395.9
25°	3467.2	3084.0	1628.3	552.6	380.1	366.3	362.1	363.1	367.4	369.5	368.4
27.5°	3476.7	2985.5	1312.8	423.5	345.1	331.4	327.1	331.4	326.1	329.3	327.1
30°	3485.2	2860.6	993.1	356.8	313.4	292.2	285.8	279.5	275.3	270.0	268.9
32.5°	3511.7	2713.4	725.2	320.8	283.7	260.4	245.6	227.6	213.9	209.6	208.6
35°	3523.3	2536.6	532.5	292.2	257.3	231.9	205.4	180.0	159.9	152.5	157.7
37.5°	3567.8	2365.1	412.9	271.0	234.0	202.2	168.3	136.6	117.5	113.3	115.4
40°	3658.8	2178.8	346.2	253.0	213.9	174.7	133.4	102.7	90.0	85.8	84.7
42.5°	3804.9	1993.5	308.1	236.1	193.7	147.2	104.8	80.5	69.9	66.7	66.7
45°	3982.8	1815.7	281.6	218.1	172.6	118.6	82.6	64.6	58.2	56.1	56.1
47.5°	4216.8	1660.0	259.4	200.1	149.3	94.2	66.7	56.1	51.9	52.9	54.0
50°	4453.9	1544.6	235.0	180.0	122.8	77.3	57.2	49.8	48.7	49.8	49.8
52.5°	4632.8	1476.9	202.2	152.5	96.3	64.6	50.8	46.6	45.5	43.4	43.4
55°	4874.2	1462.0	160.9	123.9	76.2	54.0	45.5	42.3	39.2	37.1	36.0
57.5°	5184.4	1479.0	123.9	96.3	59.3	44.5	40.2	34.9	30.7	26.5	26.5
60°	5377.1	1440.9	96.3	74.1	43.4	36.0	30.7	25.4	20.1	16.9	15.9
62.5°	5315.7	1280.0	76.2	55.1	30.7	26.5	20.1	16.9	11.6	8.5	7.4
65°	4999.1	1033.3	61.4	38.1	22.2	15.9	10.6	10.6	5.3	1.1	0.0
67.5°	4375.6	765.4	48.7	25.4	12.7	7.4	5.3	3.2	0.0	0.0	0.0
70°	3561.4	552.6	38.1	15.9	7.4	5.3	2.1	1.1	0.0	0.0	0.0
72.5°	2261.4	316.5	29.6	9.5	5.3	2.1	0.0	0.0	0.0	0.0	0.0
75°	874.5	123.9	20.1	6.4	2.1	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	247.7	58.2	11.6	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	64.6	25.4	6.4	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	30.7	10.6	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	18.0	4.2	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	8.5	1.1	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)