

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: P452533

Luminaire Tested: **GALN-SA3C-727-U-T3R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452533
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-SA3C-727-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 2700K, 1050mA 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: 13742 lumens
Efficiency: N/A
Efficacy: 85.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G3

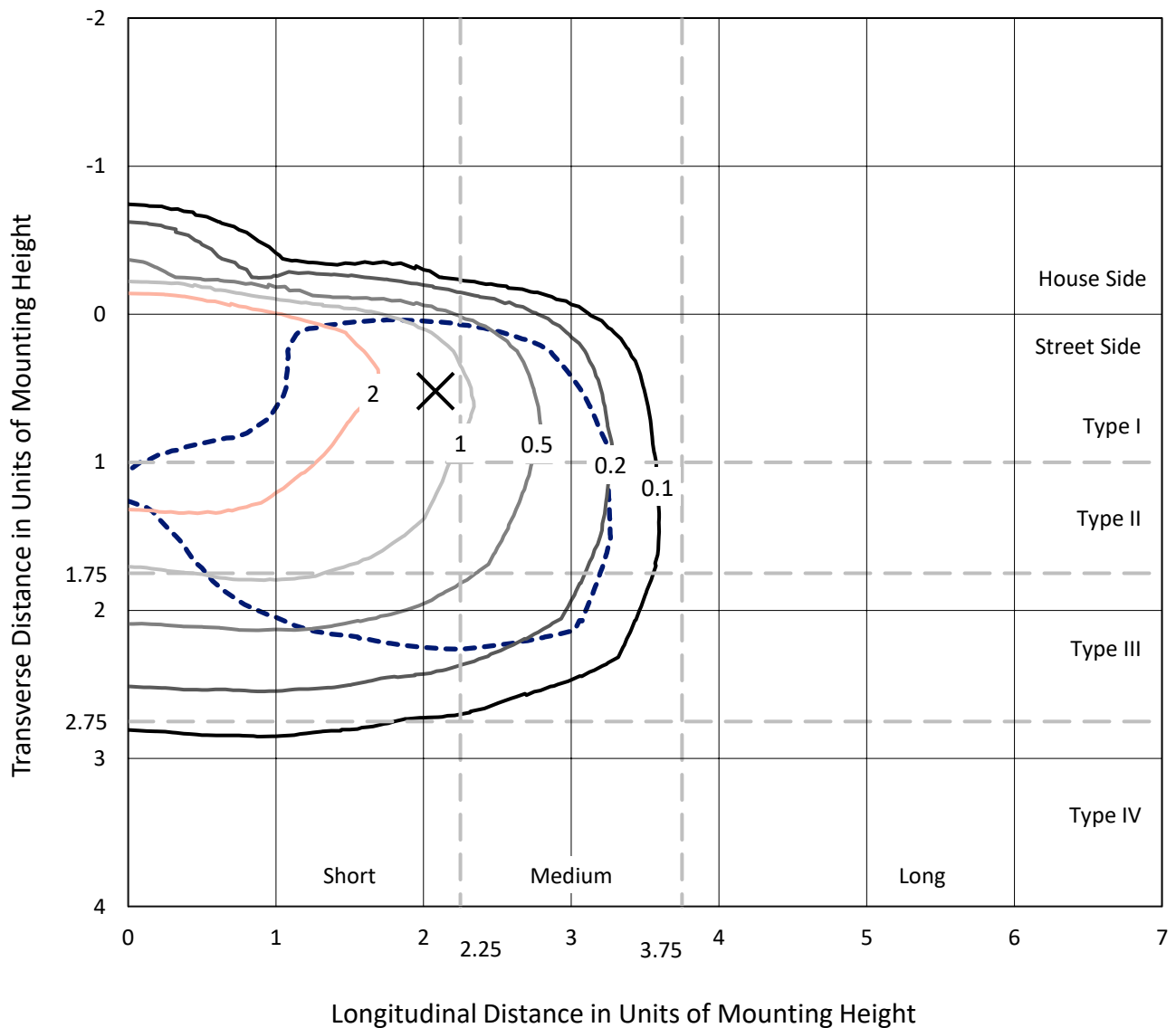
Input Watts (W): 160
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P452533
 CATALOG NUMBER: GALN-SA3C-727-U-T3R-HSS

Iso-Footcandle Lines of Horizontal Illumination

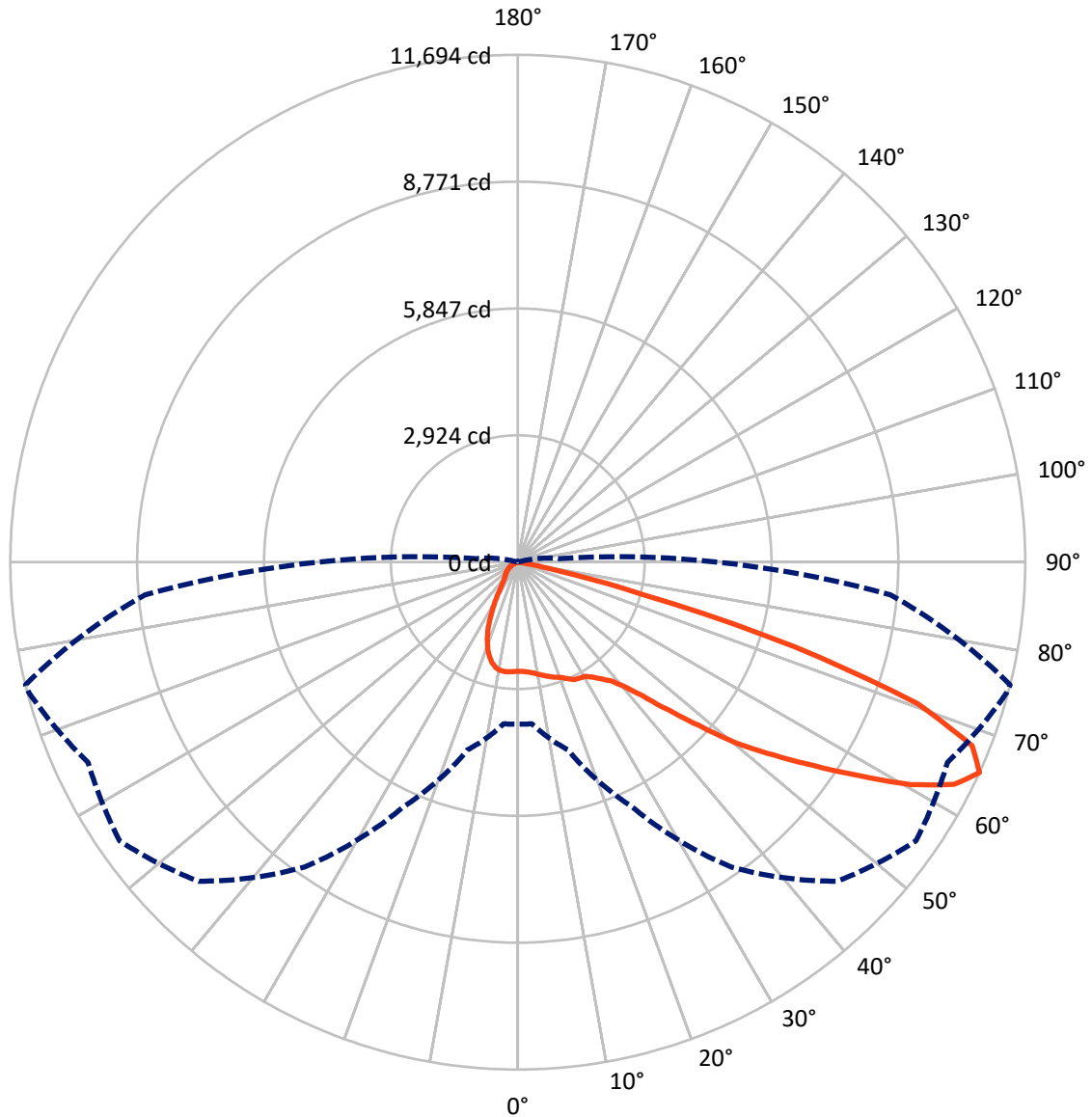
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.2 fc
 Type III - Short - N/A

REPORT NUMBER: P452533
CATALOG NUMBER: GALN-SA3C-727-U-T3R-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P452533
 CATALOG NUMBER: GALN-SA3C-727-U-T3R-HSS

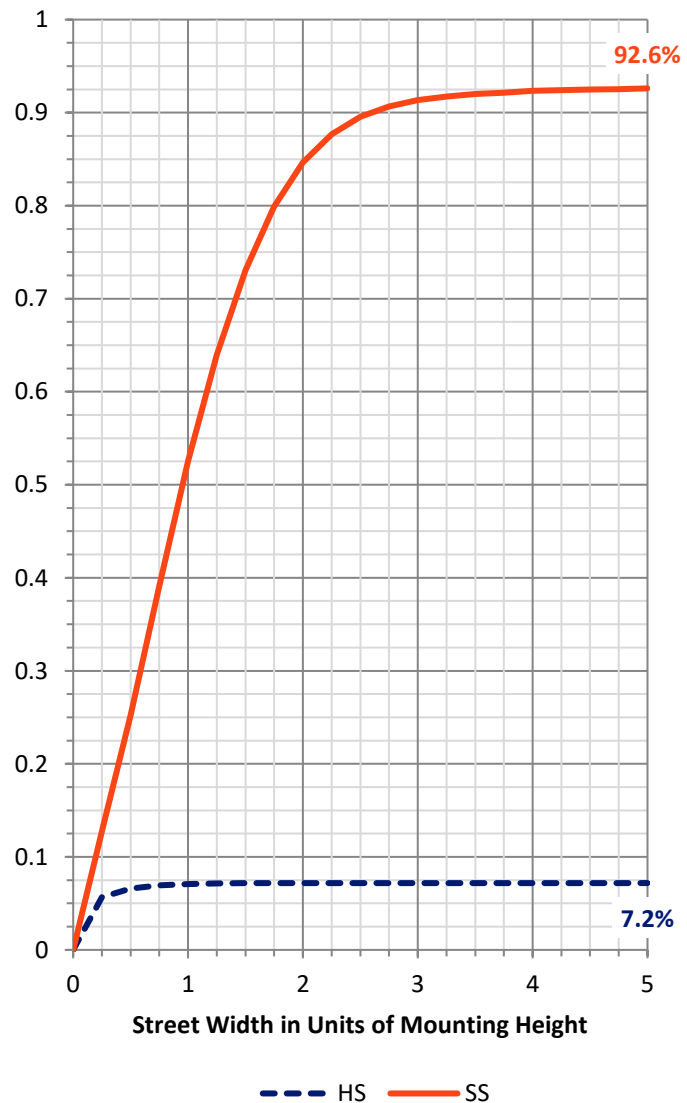
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	992.5	0.0	992.5
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	12749.6	0.0	12749.6
	% Fixture	92.8	0.0	92.8
Total	Lumens	13742.0	0.0	13742.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	207.1	1.5
10°-20°	461.1	3.4
20°-30°	743.0	5.4
30°-40°	1291.9	9.4
40°-50°	2134.8	15.5
50°-60°	3297.8	24.0
60°-70°	4027.1	29.3
70°-80°	1528.4	11.1
80°-90°	51.0	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°	13742.0	100.0
0°-180°	13742.0	100.0



REPORT NUMBER: P452533

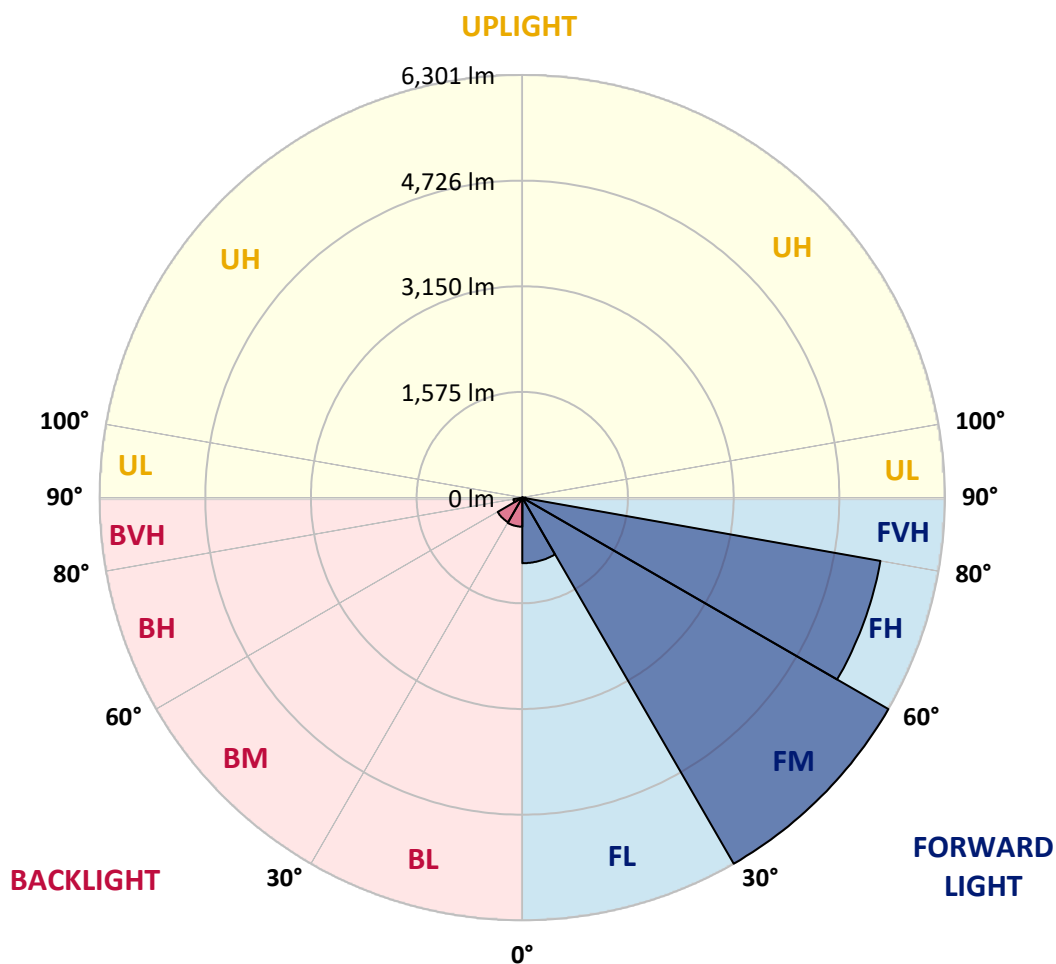
CATALOG NUMBER: GALN-SA3C-727-U-T3R-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	977.6	7.1			
FM (30°-60°)	6300.9	45.9			
FH (60°-80°)	5420.8	39.4			G3/7500
FVH (80°-90°)	50.3	0.4			G1/100
BL (0°-30°)	433.6	3.2	B1/500		
BM (30°-60°)	423.5	3.1	B1/1000		
BH (60°-80°)	134.7	1.0	B1/500		G1/500
BVH (80°-90°)	0.7	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: P452533

CATALOG NUMBER: GALN-SA3C-727-U-T3R-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2513.9	2513.9	2513.9	2513.9	2513.9	2513.9	2513.9	2513.9	2513.9	2513.9	2513.9
2.5°	2402.3	2403.2	2409.1	2423.6	2445.9	2464.4	2479.9	2505.1	2522.6	2524.5	2530.3
5°	2236.4	2224.7	2236.4	2274.2	2308.2	2359.6	2422.6	2485.7	2542.0	2545.9	2573.0
7.5°	2050.1	2059.8	2078.2	2117.0	2181.1	2259.7	2350.9	2463.4	2570.1	2579.8	2633.2
10°	1860.9	1882.2	1912.3	1971.5	2060.8	2162.6	2286.8	2447.9	2614.8	2628.3	2720.5
12.5°	1686.2	1696.0	1732.8	1812.4	1923.0	2066.6	2238.3	2439.1	2664.2	2680.7	2813.6
15°	1552.4	1565.0	1597.0	1668.8	1792.0	1976.3	2198.5	2436.2	2712.7	2736.0	2906.8
17.5°	1527.1	1534.9	1548.5	1597.0	1704.7	1904.5	2162.6	2435.3	2759.3	2787.5	2993.1
20°	1630.9	1624.2	1610.6	1605.7	1664.9	1849.2	2136.4	2443.0	2803.9	2836.0	3084.3
22.5°	1891.0	1899.7	1820.1	1726.0	1706.6	1840.5	2132.6	2479.9	2874.8	2912.6	3186.2
25°	2443.0	2376.1	2251.9	2026.8	1857.0	1893.9	2176.2	2567.2	2957.2	2999.0	3278.4
27.5°	3053.3	3032.9	2839.8	2469.2	2152.9	2006.4	2253.8	2634.2	2984.4	3027.1	3330.8
30°	3652.9	3677.1	3455.9	3046.5	2582.7	2215.0	2326.6	2659.4	3008.7	3053.3	3397.7
32.5°	4208.8	4237.9	4043.9	3638.3	3089.2	2575.9	2451.8	2757.4	3110.5	3156.1	3509.3
35°	4646.4	4650.3	4503.8	4180.7	3642.2	3014.5	2722.4	2929.1	3248.3	3301.7	3627.7
37.5°	5048.1	5042.3	4870.5	4592.1	4103.1	3450.1	3063.0	3127.0	3405.5	3460.8	3798.4
40°	5345.9	5349.8	5294.5	5032.6	4532.9	3852.8	3332.7	3312.3	3669.4	3755.7	4046.8
42.5°	5544.8	5580.7	5607.9	5475.0	5073.3	4348.5	3747.0	3709.2	4127.3	4199.1	4398.0
45°	5705.9	5769.9	5905.8	5899.0	5592.4	4956.9	4315.6	4237.9	4776.4	4853.1	4845.3
47.5°	5823.3	5888.3	6113.4	6249.2	6080.4	5546.8	5030.6	4963.7	5551.6	5635.1	5339.1
50°	5883.4	5961.1	6248.2	6511.2	6461.7	6115.3	5845.6	5849.5	6487.9	6568.4	5911.6
52.5°	5742.8	5843.7	6320.0	6793.5	6889.6	6659.6	6609.2	6737.2	7321.3	7390.2	6428.7
55°	5293.5	5420.6	6222.0	7034.1	7385.3	7301.9	7476.5	7671.6	8232.4	8277.0	6959.4
57.5°	5009.3	5144.1	5932.9	7238.8	7981.1	8109.1	8385.6	8528.3	9172.5	9286.0	7568.7
60°	4769.6	4875.4	5695.2	7282.5	8586.5	9096.8	9365.6	9513.0	10332.9	10406.6	8239.1
62.5°	4370.9	4492.1	5293.5	6977.9	8891.1	9887.6	10444.5	10378.5	11230.3	11281.8	8650.5
65°	3729.5	3740.2	4478.6	6212.3	8576.8	10400.8	11202.2	10925.7	11659.2	11694.1	8618.5
67.5°	2783.6	2886.4	3445.3	4883.1	7244.7	9962.3	11447.7	10940.2	11388.5	11291.5	7934.5
70°	1793.0	1871.6	2335.3	3386.1	5223.7	8313.8	10633.7	10190.3	9995.2	9779.9	6494.7
72.5°	827.6	928.5	1387.4	1934.6	3097.9	5922.2	8632.1	8278.9	7194.2	6662.5	4128.3
75°	360.9	386.1	685.0	1020.7	1452.4	3131.9	5691.3	5139.3	3249.3	2967.9	1652.3
77.5°	220.2	236.7	359.0	547.2	570.5	1193.4	3065.9	2242.2	1004.2	885.8	448.2
80°	149.4	167.8	261.0	286.2	195.0	332.8	1150.7	598.6	202.8	194.0	96.1
82.5°	72.8	92.2	193.1	160.1	84.4	106.7	334.7	128.1	59.2	55.3	34.0
85°	10.7	18.4	108.7	104.8	37.8	25.2	59.2	32.0	20.4	19.4	15.5
87.5°	0.0	0.0	36.9	16.5	3.9	3.9	6.8	6.8	7.8	6.8	7.8
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: P452533
 CATALOG NUMBER: GALN-SA3C-727-U-T3R-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2513.9	2513.9	2513.9	2513.9	2513.9	2513.9	2513.9	2513.9	2513.9	2513.9	2513.9
2.5°	2533.3	2538.1	2519.7	2493.5	2465.3	2437.2	2397.4	2361.5	2340.2	2352.8	2321.7
5°	2578.9	2575.0	2526.5	2446.9	2341.2	2214.1	2087.9	1980.2	1945.3	1892.9	1887.1
7.5°	2641.9	2631.2	2528.4	2346.0	2107.3	1868.7	1635.8	1481.5	1393.2	1318.5	1320.5
10°	2730.2	2699.2	2506.1	2168.5	1775.5	1415.6	1118.7	914.9	826.6	798.5	776.2
12.5°	2821.4	2761.3	2444.0	1928.8	1382.6	967.3	680.1	555.9	501.6	484.1	482.2
15°	2902.9	2807.8	2335.3	1640.6	1005.2	618.0	463.8	423.0	416.2	417.2	416.2
17.5°	2983.4	2844.7	2184.9	1335.0	683.0	443.4	398.8	389.1	392.0	395.9	394.9
20°	3050.4	2852.5	1992.8	1018.7	483.2	389.1	374.5	372.6	375.5	378.4	378.4
22.5°	3123.2	2858.3	1764.8	705.4	394.9	361.9	354.1	354.1	358.0	361.9	362.9
25°	3177.5	2826.3	1492.2	506.5	348.3	335.7	331.8	332.8	336.7	338.6	337.6
27.5°	3186.2	2736.0	1203.1	388.1	316.3	303.7	299.8	303.7	298.8	301.7	299.8
30°	3194.0	2621.5	910.1	327.0	287.2	267.8	262.0	256.1	252.3	247.4	246.4
32.5°	3218.2	2486.7	664.6	294.0	260.0	238.7	225.1	208.6	196.0	192.1	191.1
35°	3228.9	2324.7	488.0	267.8	235.8	212.5	188.2	164.9	146.5	139.7	144.6
37.5°	3269.7	2167.5	378.4	248.4	214.4	185.3	154.3	125.2	107.7	103.8	105.8
40°	3353.1	1996.7	317.3	231.9	196.0	160.1	122.2	94.1	82.5	78.6	77.6
42.5°	3487.0	1826.9	282.3	216.4	177.6	134.9	96.1	73.7	64.0	61.1	61.1
45°	3650.0	1663.9	258.1	199.9	158.1	108.7	75.7	59.2	53.4	51.4	51.4
47.5°	3864.4	1521.3	237.7	183.4	136.8	86.3	61.1	51.4	47.5	48.5	49.5
50°	4081.7	1415.6	215.4	164.9	112.5	70.8	52.4	45.6	44.6	45.6	45.6
52.5°	4245.7	1353.5	185.3	139.7	88.3	59.2	46.6	42.7	41.7	39.8	39.8
55°	4466.9	1339.9	147.5	113.5	69.9	49.5	41.7	38.8	35.9	34.0	33.0
57.5°	4751.2	1355.4	113.5	88.3	54.3	40.7	36.9	32.0	28.1	24.3	24.3
60°	4927.8	1320.5	88.3	67.9	39.8	33.0	28.1	23.3	18.4	15.5	14.6
62.5°	4871.5	1173.0	69.9	50.5	28.1	24.3	18.4	15.5	10.7	7.8	6.8
65°	4581.4	946.9	56.3	34.9	20.4	14.6	9.7	9.7	4.9	1.0	0.0
67.5°	4009.9	701.5	44.6	23.3	11.6	6.8	4.9	2.9	0.0	0.0	0.0
70°	3263.8	506.5	34.9	14.6	6.8	4.9	1.9	1.0	0.0	0.0	0.0
72.5°	2072.4	290.1	27.2	8.7	4.9	1.9	0.0	0.0	0.0	0.0	0.0
75°	801.4	113.5	18.4	5.8	1.9	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	227.0	53.4	10.7	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	59.2	23.3	5.8	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	28.1	9.7	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	16.5	3.9	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	7.8	1.0	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)