

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: P453026

Luminaire Tested: **GALN-SA4A-730-U-T3R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453026
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-SA4A-730-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K, 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: 12899 lumens
Efficiency: N/A
Efficacy: 106.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G3

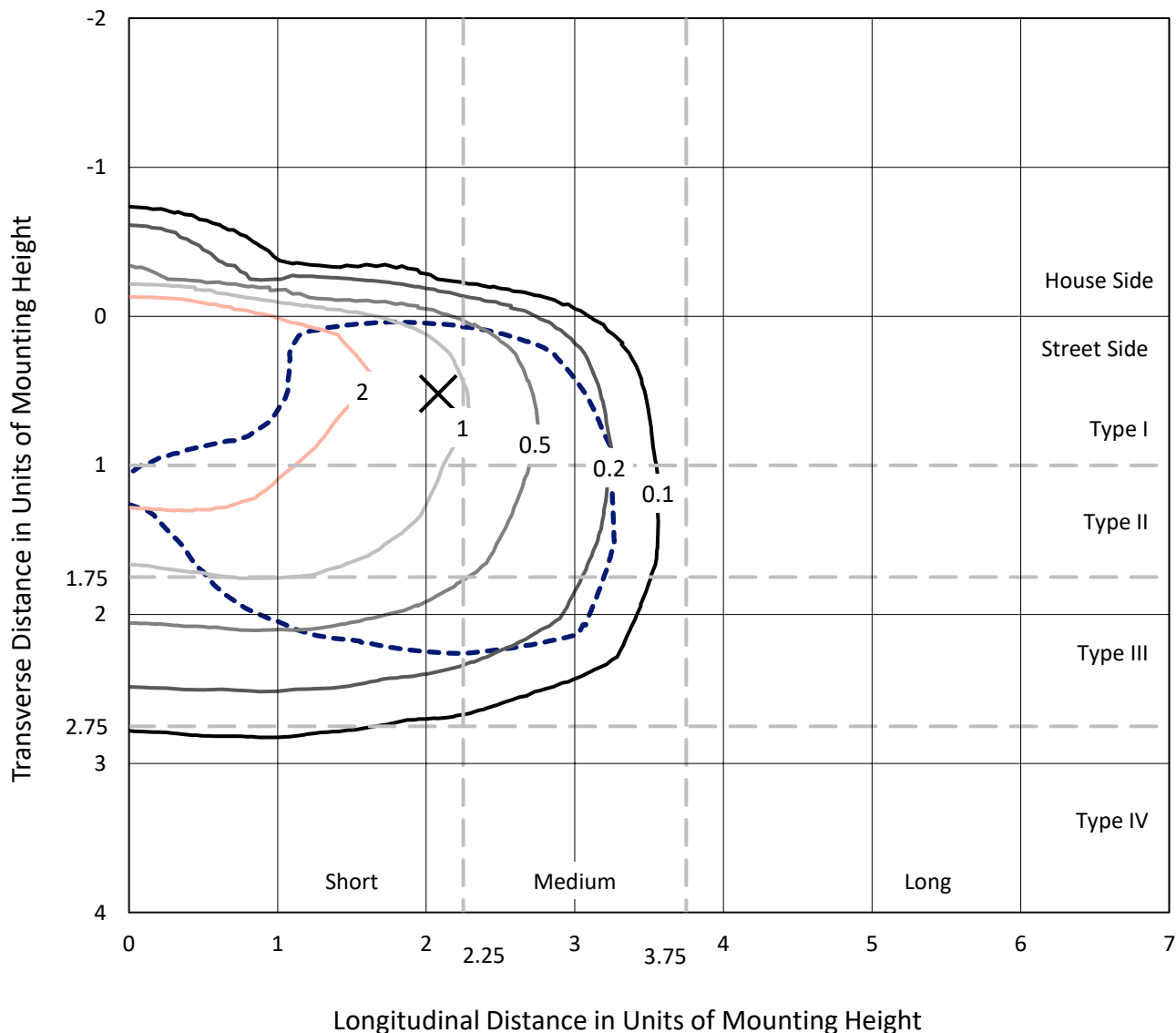
Input Watts (W): 121
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

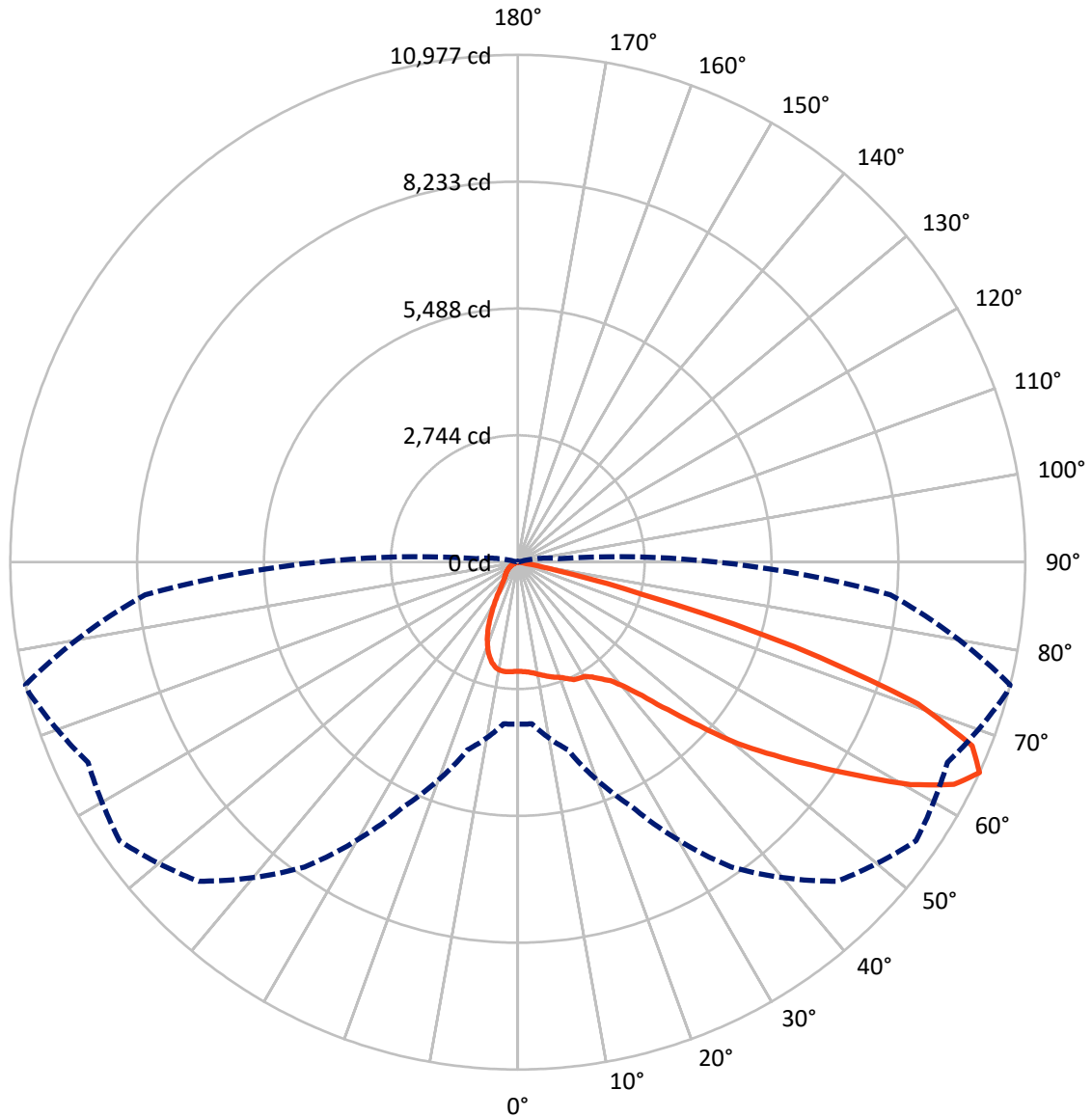
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.9 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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



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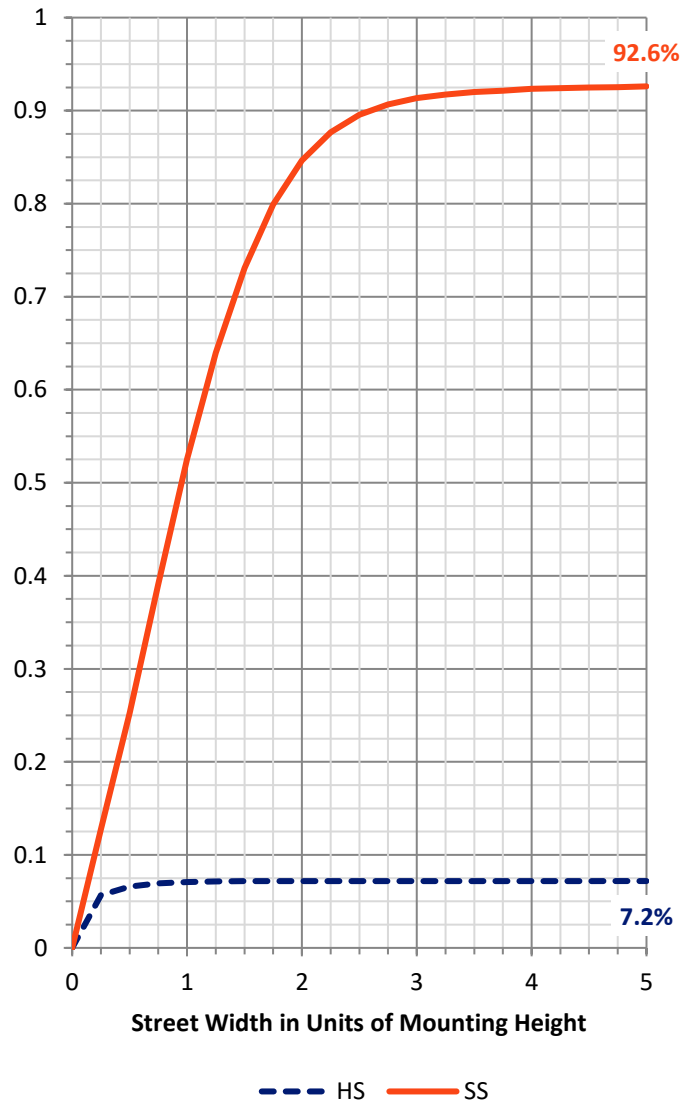
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	931.6	0.0	931.6
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	11967.4	0.0	11967.4
	% Fixture	92.8	0.0	92.8
Total	Lumens	12899.0	0.0	12899.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	194.4	1.5
10°-20°	432.8	3.4
20°-30°	697.4	5.4
30°-40°	1212.6	9.4
40°-50°	2003.8	15.5
50°-60°	3095.5	24.0
60°-70°	3780.0	29.3
70°-80°	1434.6	11.1
80°-90°	47.9	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°	12899.0	100.0
0°-180°	12899.0	100.0



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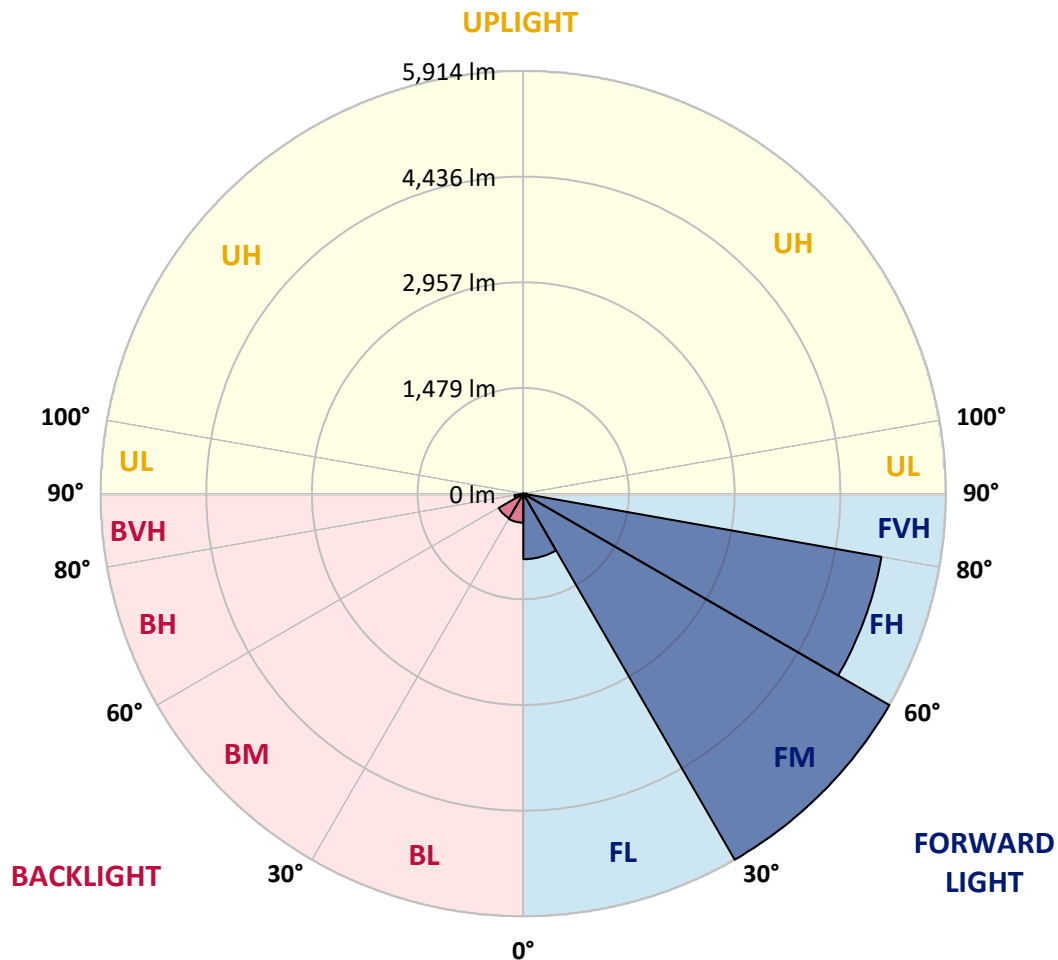
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	917.6	7.1			
FM (30°-60°)	5914.4	45.9			
FH (60°-80°)	5088.2	39.4			G3/7500
FVH (80°-90°)	47.2	0.4			G1/100
BL (0°-30°)	407.0	3.2	B1/500		
BM (30°-60°)	397.5	3.1	B1/1000		
BH (60°-80°)	126.4	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2359.6	2359.6	2359.6	2359.6	2359.6	2359.6	2359.6	2359.6	2359.6	2359.6	2359.6
2.5°	2254.9	2255.8	2261.3	2274.9	2295.9	2313.2	2327.8	2351.4	2367.8	2369.7	2375.1
5°	2099.2	2088.2	2099.2	2134.7	2166.6	2214.8	2274.0	2333.2	2386.0	2389.7	2415.2
7.5°	1924.3	1933.4	1950.7	1987.2	2047.3	2121.0	2206.6	2312.3	2412.5	2421.6	2471.7
10°	1746.7	1766.8	1795.0	1850.6	1934.3	2030.0	2146.5	2297.7	2454.4	2467.1	2553.6
12.5°	1582.8	1591.9	1626.5	1701.2	1805.0	1939.8	2101.0	2289.5	2500.8	2516.3	2641.0
15°	1457.1	1469.0	1499.0	1566.4	1682.1	1855.1	2063.7	2286.8	2546.3	2568.2	2728.5
17.5°	1433.5	1440.7	1453.5	1499.0	1600.1	1787.7	2030.0	2285.9	2590.0	2616.5	2809.5
20°	1530.9	1524.5	1511.8	1507.2	1562.8	1735.8	2005.4	2293.2	2631.9	2662.0	2895.1
22.5°	1775.0	1783.2	1708.5	1620.1	1601.9	1727.6	2001.7	2327.8	2698.4	2733.9	2990.8
25°	2293.2	2230.3	2113.7	1902.5	1743.1	1777.7	2042.7	2409.7	2775.8	2815.0	3077.3
27.5°	2866.0	2846.9	2665.6	2317.7	2020.9	1883.3	2115.6	2472.6	2801.3	2841.4	3126.5
30°	3428.8	3451.6	3243.9	2859.6	2424.3	2079.1	2183.9	2496.2	2824.1	2866.0	3189.3
32.5°	3950.6	3978.0	3795.8	3415.1	2899.7	2417.9	2301.4	2588.2	2919.7	2962.5	3294.0
35°	4361.4	4365.0	4227.5	3924.2	3418.8	2829.6	2555.4	2749.4	3049.0	3099.1	3405.1
37.5°	4738.4	4732.9	4571.7	4310.4	3851.4	3238.5	2875.1	2935.2	3196.6	3248.5	3565.4
40°	5018.0	5021.6	4969.7	4723.8	4254.8	3616.4	3128.3	3109.1	3444.3	3525.3	3798.6
42.5°	5204.7	5238.4	5263.9	5139.1	4762.1	4081.8	3517.1	3481.6	3874.1	3941.5	4128.2
45°	5355.9	5416.0	5543.5	5537.1	5249.3	4652.8	4050.8	3978.0	4483.4	4555.4	4548.1
47.5°	5466.1	5527.1	5738.4	5865.9	5707.4	5206.5	4722.0	4659.2	5211.1	5289.4	5011.6
50°	5522.5	5595.4	5864.9	6111.7	6065.3	5740.2	5487.0	5490.6	6089.9	6165.5	5548.9
52.5°	5390.5	5485.2	5932.3	6376.8	6466.9	6251.1	6203.7	6323.9	6872.2	6936.8	6034.3
55°	4968.8	5088.1	5840.4	6602.6	6932.3	6854.0	7017.9	7201.0	7727.3	7769.2	6532.5
57.5°	4702.0	4828.6	5569.0	6794.8	7491.5	7611.7	7871.2	8005.1	8609.8	8716.4	7104.4
60°	4477.0	4576.3	5345.8	6835.8	8059.7	8538.8	8791.0	8929.5	9699.0	9768.2	7733.7
62.5°	4102.7	4216.6	4968.8	6549.8	8345.7	9281.0	9803.7	9741.8	10541.4	10589.7	8119.9
65°	3500.8	3510.8	4203.8	5831.2	8050.6	9762.8	10515.0	10255.5	10944.0	10976.7	8089.8
67.5°	2612.8	2709.3	3233.9	4583.6	6800.2	9351.1	10745.4	10269.1	10689.9	10598.8	7447.8
70°	1683.0	1756.8	2192.1	3178.4	4903.2	7803.8	9981.3	9565.1	9382.1	9179.9	6096.3
72.5°	776.8	871.5	1302.3	1815.9	2907.9	5558.9	8102.5	7771.1	6752.9	6253.8	3875.1
75°	338.8	362.5	643.0	958.1	1363.3	2939.8	5342.2	4824.0	3050.0	2785.8	1550.9
77.5°	206.7	222.2	337.0	513.6	535.5	1120.2	2877.8	2104.6	942.6	831.5	420.7
80°	140.2	157.6	245.0	268.7	183.1	312.4	1080.1	561.9	190.3	182.1	90.2
82.5°	68.3	86.5	181.2	150.3	79.2	100.2	314.2	120.2	55.6	51.9	31.9
85°	10.0	17.3	102.0	98.4	35.5	23.7	55.6	30.1	19.1	18.2	14.6
87.5°	0.0	0.0	34.6	15.5	3.6	3.6	6.4	6.4	7.3	6.4	7.3
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°	2359.6	2359.6	2359.6	2359.6	2359.6	2359.6	2359.6	2359.6	2359.6	2359.6	2359.6
2.5°	2377.9	2382.4	2365.1	2340.5	2314.1	2287.7	2250.4	2216.7	2196.6	2208.5	2179.3
5°	2420.7	2417.0	2371.5	2296.8	2197.5	2078.2	1959.8	1858.8	1826.0	1776.8	1771.3
7.5°	2479.9	2469.8	2373.3	2202.1	1978.1	1754.0	1535.5	1390.6	1307.8	1237.6	1239.5
10°	2562.7	2533.6	2352.4	2035.4	1666.6	1328.7	1050.0	858.8	775.9	749.5	728.6
12.5°	2648.3	2591.9	2294.1	1810.5	1297.8	908.0	638.4	521.8	470.8	454.4	452.6
15°	2724.8	2635.6	2192.1	1540.0	943.5	580.1	435.3	397.1	390.7	391.6	390.7
17.5°	2800.4	2670.2	2050.9	1253.1	641.1	416.2	374.3	365.2	367.9	371.6	370.7
20°	2863.3	2677.5	1870.6	956.2	453.5	365.2	351.5	349.7	352.4	355.2	355.2
22.5°	2931.6	2682.9	1656.6	662.1	370.7	339.7	332.4	332.4	336.1	339.7	340.6
25°	2982.6	2652.9	1400.7	475.4	326.9	315.1	311.5	312.4	316.0	317.8	316.9
27.5°	2990.8	2568.2	1129.3	364.3	296.9	285.1	281.4	285.1	280.5	283.2	281.4
30°	2998.0	2460.7	854.2	306.9	269.6	251.4	245.9	240.4	236.8	232.2	231.3
32.5°	3020.8	2334.1	623.8	275.9	244.1	224.0	211.3	195.8	184.0	180.3	179.4
35°	3030.8	2182.1	458.1	251.4	221.3	199.4	176.7	154.8	137.5	131.1	135.7
37.5°	3069.1	2034.5	355.2	233.1	201.3	173.9	144.8	117.5	101.1	97.4	99.3
40°	3147.4	1874.2	297.8	217.7	184.0	150.3	114.7	88.3	77.4	73.8	72.9
42.5°	3273.1	1714.9	265.0	203.1	166.7	126.6	90.2	69.2	60.1	57.4	57.4
45°	3426.1	1561.9	242.2	187.6	148.4	102.0	71.0	55.6	50.1	48.3	48.3
47.5°	3627.3	1428.0	223.1	172.1	128.4	81.1	57.4	48.3	44.6	45.5	46.4
50°	3831.3	1328.7	202.2	154.8	105.6	66.5	49.2	42.8	41.9	42.8	42.8
52.5°	3985.2	1270.4	173.9	131.1	82.9	55.6	43.7	40.1	39.2	37.3	37.3
55°	4192.9	1257.7	138.4	106.6	65.6	46.4	39.2	36.4	33.7	31.9	31.0
57.5°	4459.7	1272.3	106.6	82.9	51.0	38.2	34.6	30.1	26.4	22.8	22.8
60°	4625.5	1239.5	82.9	63.7	37.3	31.0	26.4	21.9	17.3	14.6	13.7
62.5°	4572.7	1101.0	65.6	47.4	26.4	22.8	17.3	14.6	10.0	7.3	6.4
65°	4300.4	888.8	52.8	32.8	19.1	13.7	9.1	9.1	4.6	0.9	0.0
67.5°	3763.9	658.4	41.9	21.9	10.9	6.4	4.6	2.7	0.0	0.0	0.0
70°	3063.6	475.4	32.8	13.7	6.4	4.6	1.8	0.9	0.0	0.0	0.0
72.5°	1945.3	272.3	25.5	8.2	4.6	1.8	0.0	0.0	0.0	0.0	0.0
75°	752.2	106.6	17.3	5.5	1.8	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	213.1	50.1	10.0	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	55.6	21.9	5.5	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	26.4	9.1	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	15.5	3.6	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	7.3	0.9	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)