

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: P947367

Luminaire Tested: **GALN-SB2D-727-U-T3R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P947367
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB2D-727-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15715 lumens
Efficiency: N/A
Efficacy: 106.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

Input Watts (W): 147.6
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

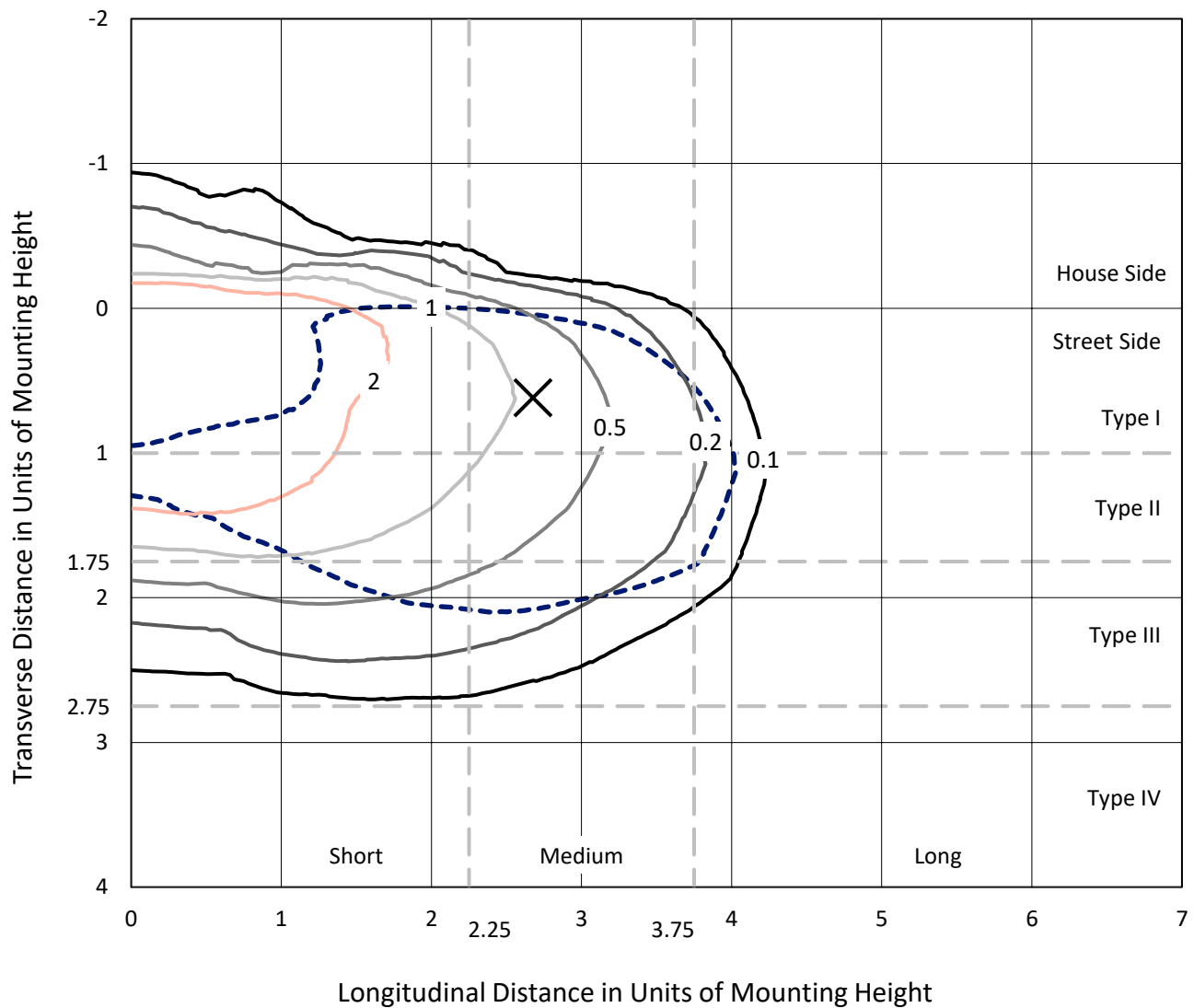


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Iso-Footcandle Lines of Horizontal Illumination

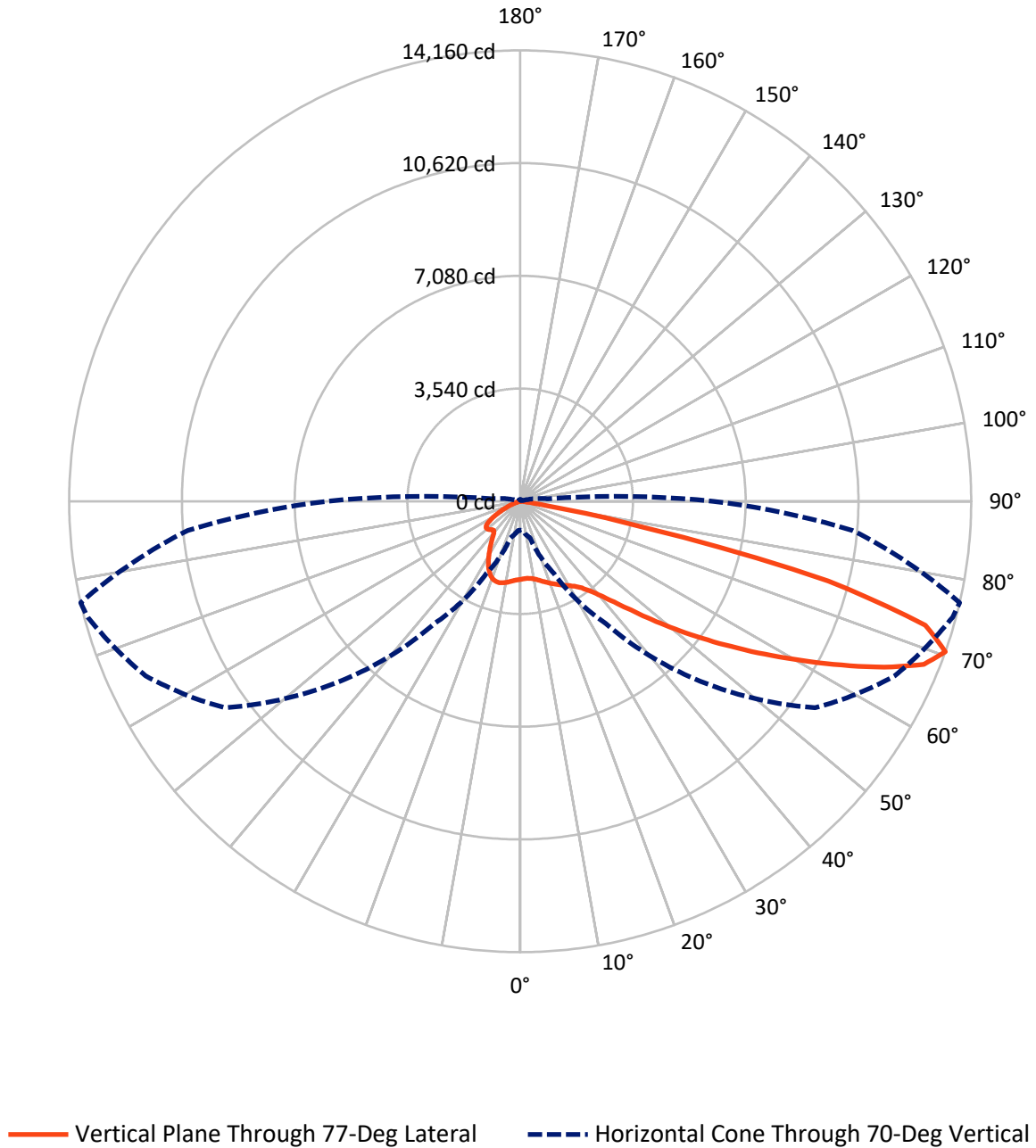
× Max cd
--- 1/2 Max cd



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

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Luminous Intensity Polar Plot



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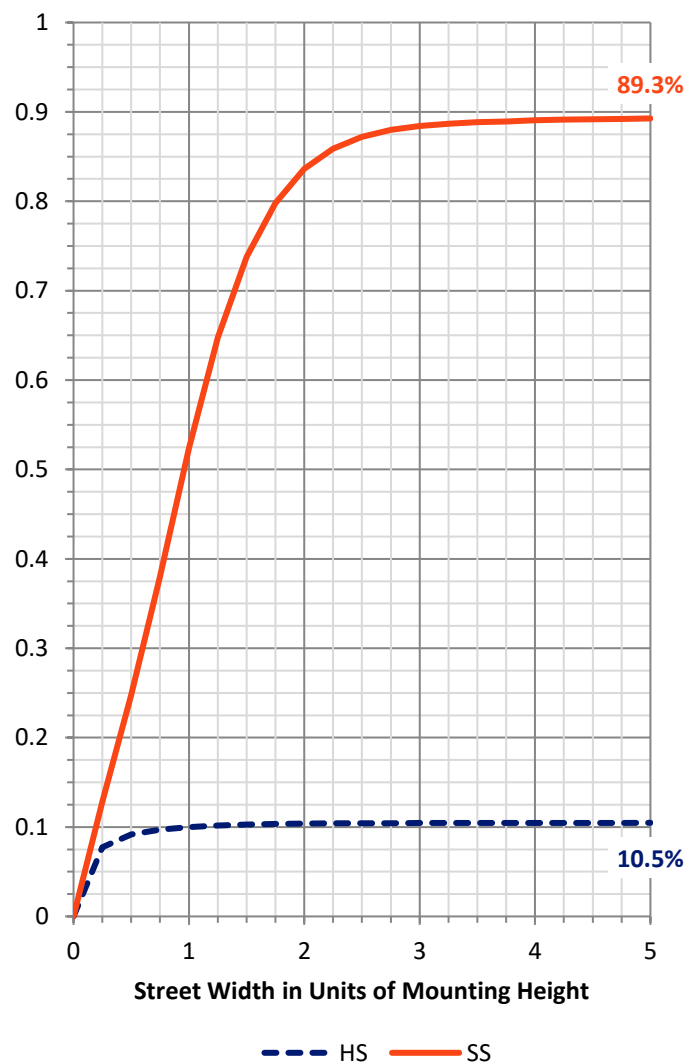
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1656.6	0.0	1656.6
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	14058.4	0.0	14058.4
	% Fixture	89.5	0.0	89.5
Total	Lumens	15715.0	0.0	15715.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	211.3	1.3
10°-20°	501.5	3.2
20°-30°	775.7	4.9
30°-40°	1407.5	9.0
40°-50°	2656.9	16.9
50°-60°	3839.0	24.4
60°-70°	4086.5	26.0
70°-80°	2165.6	13.8
80°-90°	71.1	0.5
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°	15715.0	100.0
0°-180°	15715.0	100.0

Coefficient of Utilization



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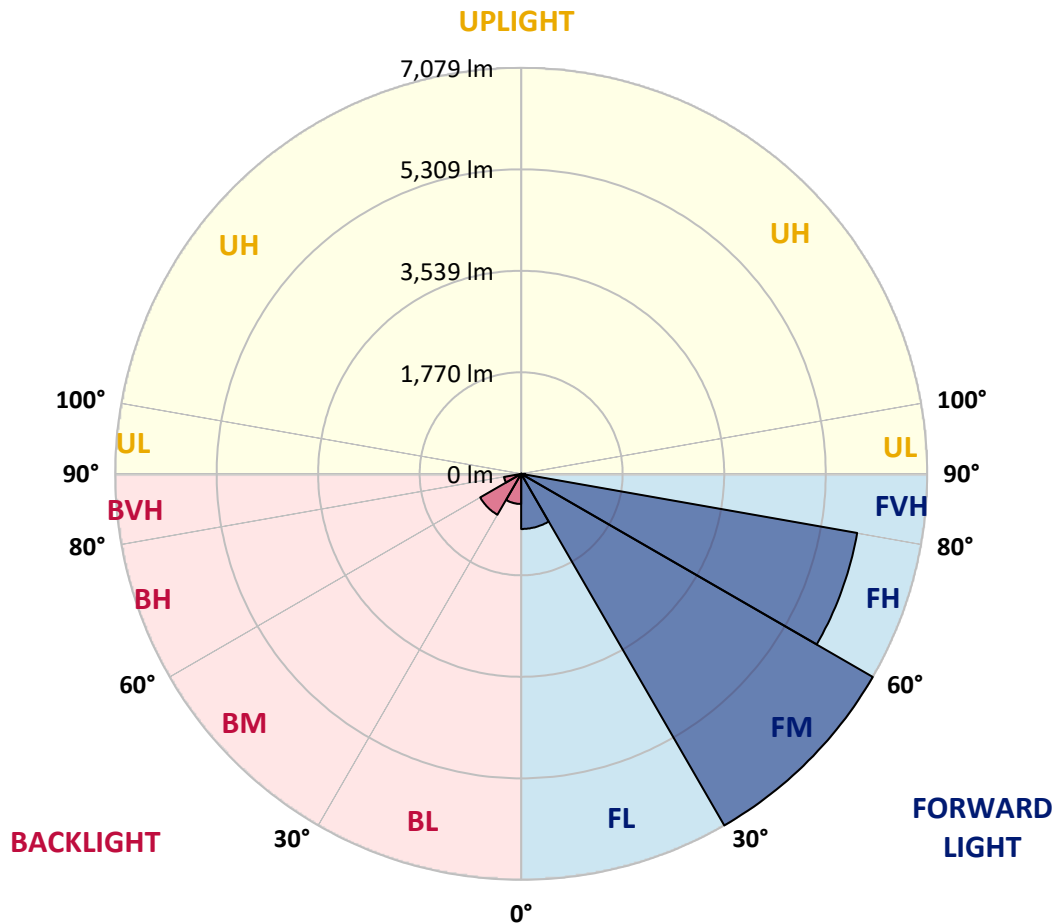
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	962.1	6.1			
FM	(30°-60°)	7078.7	45.0			
FH	(60°-80°)	5948.4	37.9			G3/7500
FVH	(80°-90°)	69.2	0.4			G1/100
BL	(0°-30°)	526.3	3.3	B2/1000		
BM	(30°-60°)	824.7	5.2	B1/1000		
BH	(60°-80°)	303.7	1.9	B1/500		G1/500
BVH	(80°-90°)	1.9	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	2451.3	2451.3	2451.3	2451.3	2451.3	2451.3	2451.3	2451.3	2451.3	2451.3	2451.3
2.5°	2301.4	2322.2	2319.3	2333.2	2338.1	2358.0	2377.8	2404.6	2434.4	2433.4	2453.2
5°	2171.4	2192.2	2197.2	2216.1	2239.9	2270.6	2311.3	2364.9	2420.5	2429.4	2469.1
7.5°	2017.6	2039.4	2052.3	2090.0	2133.7	2197.2	2263.7	2342.1	2434.4	2447.3	2523.7
10°	1863.7	1883.6	1900.5	1954.1	2023.5	2117.8	2226.0	2339.1	2463.2	2482.0	2590.2
12.5°	1768.5	1787.3	1806.2	1852.8	1939.2	2054.3	2201.2	2353.0	2510.8	2537.6	2680.5
15°	1734.7	1751.6	1766.5	1808.2	1888.6	2019.6	2196.2	2381.8	2571.3	2607.1	2789.7
17.5°	1739.7	1748.6	1758.6	1790.3	1868.7	2003.7	2205.1	2431.4	2642.8	2674.5	2898.8
20°	1768.5	1773.4	1774.4	1796.3	1865.7	2001.7	2223.0	2479.0	2710.3	2752.9	3007.0
22.5°	1805.2	1807.2	1805.2	1820.1	1884.6	2016.6	2246.8	2536.6	2785.7	2825.4	3116.2
25°	1976.9	1939.2	1891.5	1862.8	1916.3	2045.4	2282.5	2614.0	2868.1	2906.8	3222.4
27.5°	2509.8	2401.6	2230.9	2039.4	1981.8	2087.0	2332.2	2692.4	2951.4	2986.2	3336.5
30°	3375.2	3233.3	2943.5	2511.8	2192.2	2174.4	2396.7	2770.8	3039.8	3077.5	3458.6
32.5°	4242.6	4207.8	3873.4	3276.0	2665.6	2368.9	2503.9	2877.0	3156.9	3186.6	3623.3
35°	5119.9	5049.4	4775.5	4185.0	3395.0	2764.9	2682.5	3015.9	3310.7	3344.4	3863.5
37.5°	5791.7	5749.0	5579.3	5093.1	4260.4	3376.2	2988.2	3231.3	3534.0	3571.7	4171.1
40°	6385.2	6365.3	6307.8	5987.2	5228.0	4176.1	3463.5	3564.7	3843.6	3888.3	4548.2
42.5°	6851.6	6898.3	6931.0	6841.7	6225.4	5089.1	4102.6	4033.2	4275.3	4321.0	5028.5
45°	7329.0	7344.8	7476.8	7605.8	7215.8	6043.8	4823.1	4582.0	4812.2	4868.8	5604.1
47.5°	7635.6	7699.1	7931.4	8158.6	8048.5	6990.5	5597.2	5230.0	5434.4	5540.6	6249.2
50°	7658.4	7778.5	8098.1	8494.0	8654.8	7891.7	6438.8	5968.4	6185.7	6302.8	6937.9
52.5°	7278.3	7464.9	7960.1	8539.7	8982.3	8654.8	7309.1	6706.7	6985.6	7138.4	7652.5
55°	5580.3	5824.5	7441.1	8291.6	8995.2	9233.4	8156.6	7475.8	7876.8	8049.4	8424.6
57.5°	4861.8	4984.9	5850.3	7860.9	8756.0	9466.6	8922.8	8208.2	8846.4	9060.7	9154.0
60°	4045.1	4206.8	4906.5	7156.3	8431.5	9489.4	9599.6	9153.0	9897.3	10138.5	9822.9
62.5°	2749.0	2924.6	3620.3	5945.5	7987.9	9478.5	10154.4	10125.6	11065.4	11324.4	10389.6
65°	1703.0	1813.1	2271.6	4854.9	7367.7	9490.4	10734.9	11306.5	12298.0	12561.0	10828.2
67.5°	1345.7	1396.3	1635.5	3727.5	6298.8	9222.5	11314.5	12417.1	13458.1	13666.5	10962.2
70°	904.1	934.9	1189.9	2498.9	4686.2	7985.9	11303.6	12974.8	14055.5	14159.7	10473.9
72.5°	476.4	500.2	695.7	1157.2	2830.4	5676.6	9528.1	12307.9	13461.1	13304.3	8952.5
75°	238.2	277.9	468.4	587.5	1208.8	3165.8	5916.8	9703.8	10595.0	9987.6	5744.1
77.5°	180.6	218.3	387.0	387.0	420.8	1065.8	2505.8	5292.5	4881.7	4064.9	1686.1
80°	115.1	148.9	338.4	292.8	175.7	270.9	653.0	1482.7	1037.1	789.0	306.7
82.5°	67.5	97.3	281.8	193.5	98.2	100.2	184.6	315.6	268.9	209.4	94.3
85°	26.8	63.5	193.5	76.4	38.7	24.8	55.6	67.5	55.6	41.7	23.8
87.5°	0.0	14.9	33.7	0.0	3.0	2.0	4.0	5.0	5.0	4.0	7.9
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°	2451.3	2451.3	2451.3	2451.3	2451.3	2451.3	2451.3	2451.3	2451.3	2451.3	2451.3
2.5°	2462.2	2464.2	2470.1	2471.1	2457.2	2439.3	2432.4	2429.4	2417.5	2416.5	2418.5
5°	2491.9	2500.9	2491.9	2466.1	2404.6	2318.3	2252.8	2199.2	2150.6	2135.7	2126.7
7.5°	2551.5	2560.4	2533.6	2432.4	2277.6	2105.9	1951.1	1841.9	1743.7	1706.9	1692.1
10°	2636.8	2648.7	2564.4	2360.0	2086.0	1810.2	1548.2	1363.6	1219.7	1161.1	1136.3
12.5°	2744.0	2749.0	2581.3	2249.8	1837.0	1443.0	1071.8	874.3	746.3	698.7	683.8
15°	2862.1	2855.2	2583.2	2099.9	1497.5	1020.2	699.7	574.6	523.0	507.1	507.1
17.5°	2986.2	2957.4	2543.6	1883.6	1125.4	697.7	519.0	489.3	480.3	476.4	475.4
20°	3108.2	3043.7	2471.1	1600.8	807.8	521.0	471.4	462.5	457.5	455.5	453.5
22.5°	3219.4	3109.2	2347.1	1272.3	586.5	460.5	445.6	437.7	428.7	424.8	423.8
25°	3327.6	3146.9	2172.4	965.6	469.4	430.7	418.8	403.9	392.0	387.0	385.1
27.5°	3432.8	3170.8	1954.1	714.5	418.8	402.9	381.1	360.2	351.3	349.3	347.3
30°	3544.9	3178.7	1706.0	532.9	388.0	368.2	336.4	312.6	307.6	308.6	308.6
32.5°	3681.8	3190.6	1455.9	436.7	362.2	326.5	288.8	264.0	260.0	264.0	263.0
35°	3845.6	3214.4	1214.7	401.9	339.4	283.8	243.1	222.3	218.3	221.3	220.3
37.5°	4067.9	3253.1	989.4	395.0	320.5	248.1	204.4	187.6	187.6	188.6	187.6
40°	4363.6	3356.3	788.0	390.0	310.6	221.3	172.7	165.7	168.7	170.7	170.7
42.5°	4723.9	3575.7	652.0	384.1	299.7	209.4	156.8	153.8	158.8	160.8	160.8
45°	5127.8	3853.5	604.4	374.1	289.8	217.3	149.9	145.9	151.8	152.8	153.8
47.5°	5545.6	4125.5	598.4	363.2	279.9	229.2	147.9	138.9	145.9	146.9	147.9
50°	5968.4	4303.1	604.4	346.4	264.0	229.2	148.9	132.0	137.9	140.9	141.9
52.5°	6394.1	4384.5	600.4	309.6	236.2	215.4	148.9	126.0	132.0	134.0	134.0
55°	6806.9	4368.6	539.9	255.0	200.5	190.5	144.9	121.1	125.0	126.0	126.0
57.5°	7133.5	4147.3	427.7	198.5	162.8	158.8	132.0	115.1	118.1	117.1	117.1
60°	7304.1	3661.0	305.7	152.8	128.0	125.0	116.1	107.2	109.2	104.2	103.2
62.5°	7306.1	3017.9	204.4	121.1	102.2	99.2	99.2	96.3	94.3	84.4	81.4
65°	7150.3	2304.4	136.0	96.3	82.4	77.4	83.4	82.4	75.4	61.5	59.5
67.5°	6797.0	1510.5	103.2	75.4	63.5	60.5	66.5	69.5	64.5	51.6	50.6
70°	6070.6	879.3	85.3	58.6	47.6	44.7	53.6	59.5	53.6	41.7	39.7
72.5°	5042.4	474.4	69.5	43.7	32.7	29.8	42.7	48.6	42.7	30.8	29.8
75°	3272.0	254.1	53.6	28.8	16.9	18.9	31.8	35.7	29.8	19.8	17.9
77.5°	1098.6	112.1	33.7	13.9	7.9	7.9	18.9	21.8	13.9	6.9	6.0
80°	245.1	46.6	13.9	6.0	3.0	3.0	4.0	4.0	2.0	0.0	0.0
82.5°	80.4	18.9	6.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	30.8	6.9	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	11.9	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)