

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: P453523

Luminaire Tested: **GALN-SA4C-740-U-T4W-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453523
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-27)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4C-740-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20119 lumens
Efficiency: N/A
Efficacy: 94.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G4

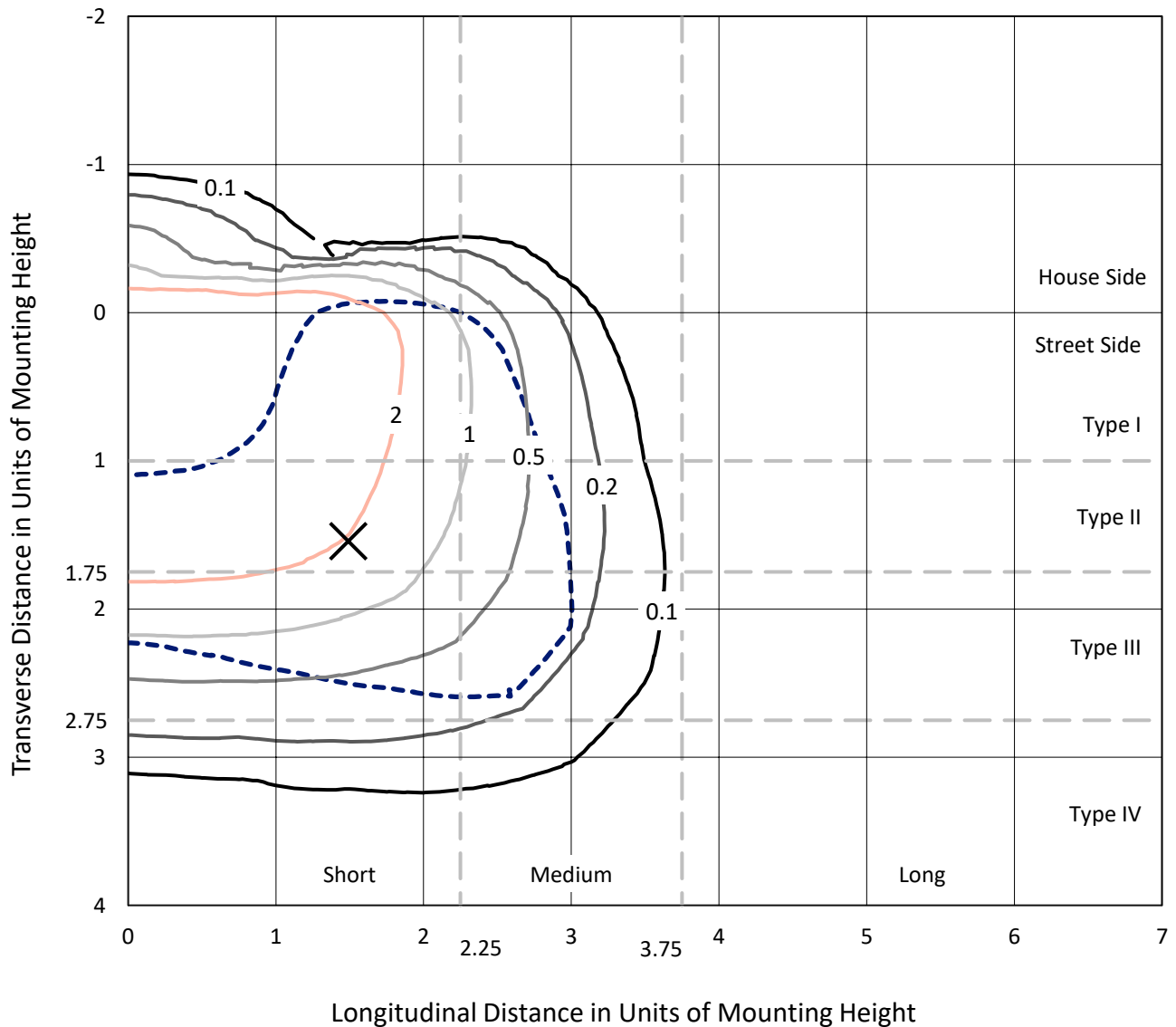
Input Watts (W): 213
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

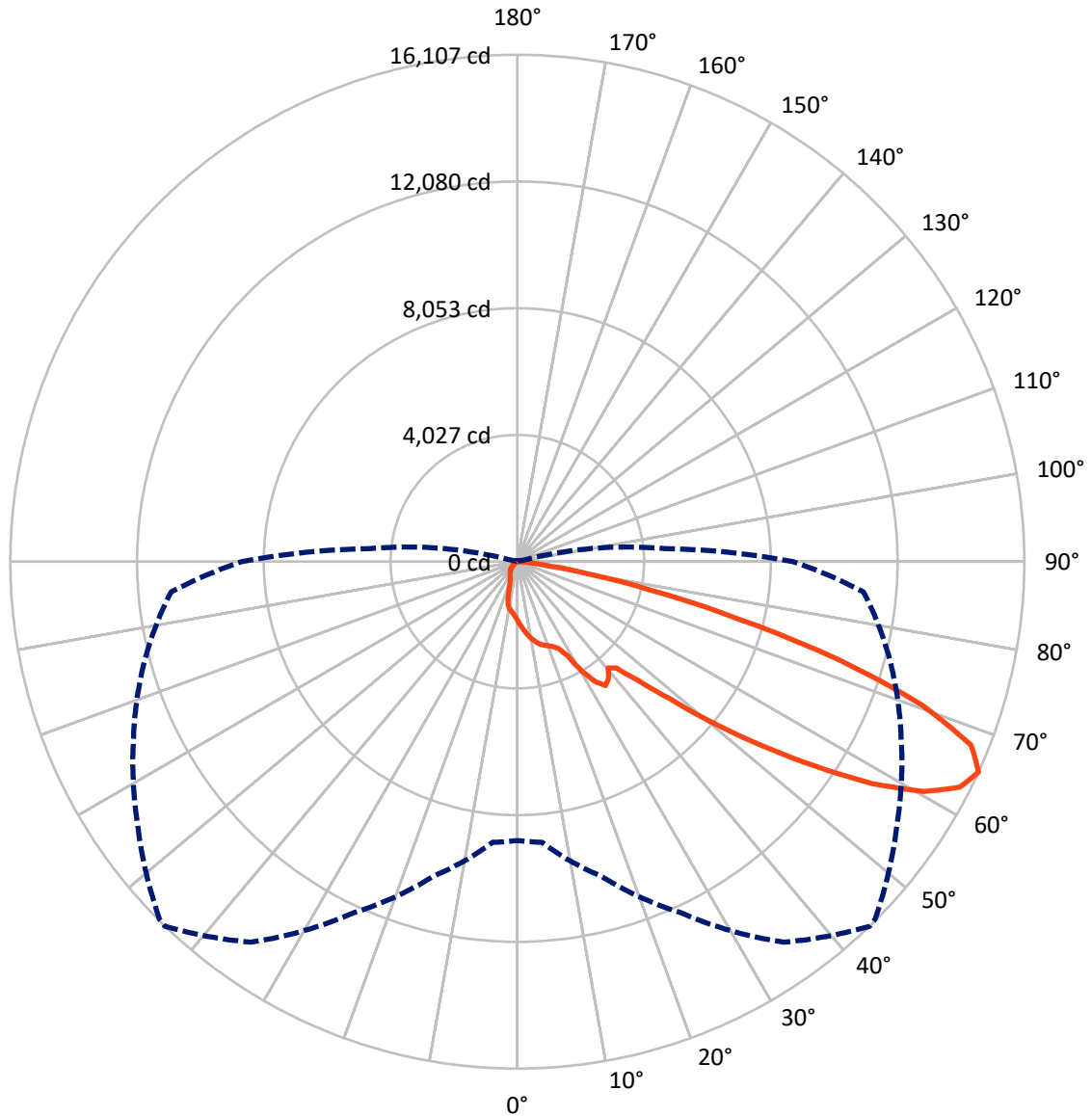
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 44-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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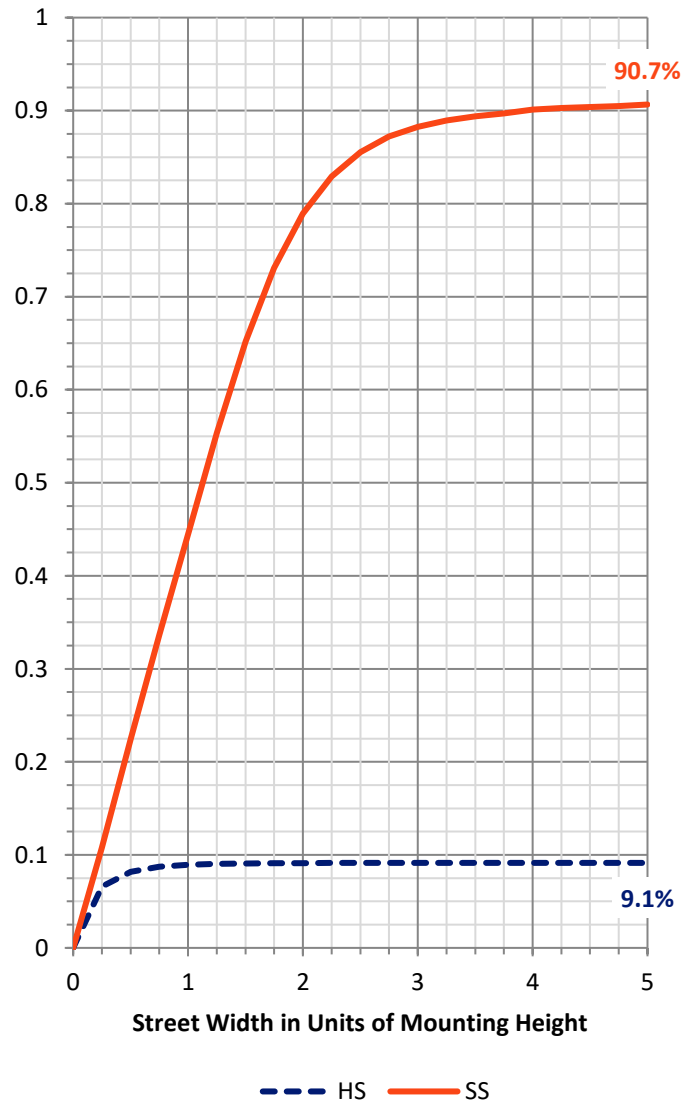
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1853.7	0.0	1853.7
	% Fixture	9.2	0.0	9.2
Street Side	Lumens	18265.3	0.0	18265.3
	% Fixture	90.8	0.0	90.8
Total	Lumens	20119.0	0.0	20119.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	186.2	0.9
10°-20°	560.5	2.8
20°-30°	950.4	4.7
30°-40°	1580.3	7.9
40°-50°	2759.2	13.7
50°-60°	5390.4	26.8
60°-70°	6254.1	31.1
70°-80°	2277.4	11.3
80°-90°	160.5	0.8
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°	20119.0	100.0
0°-180°	20119.0	100.0



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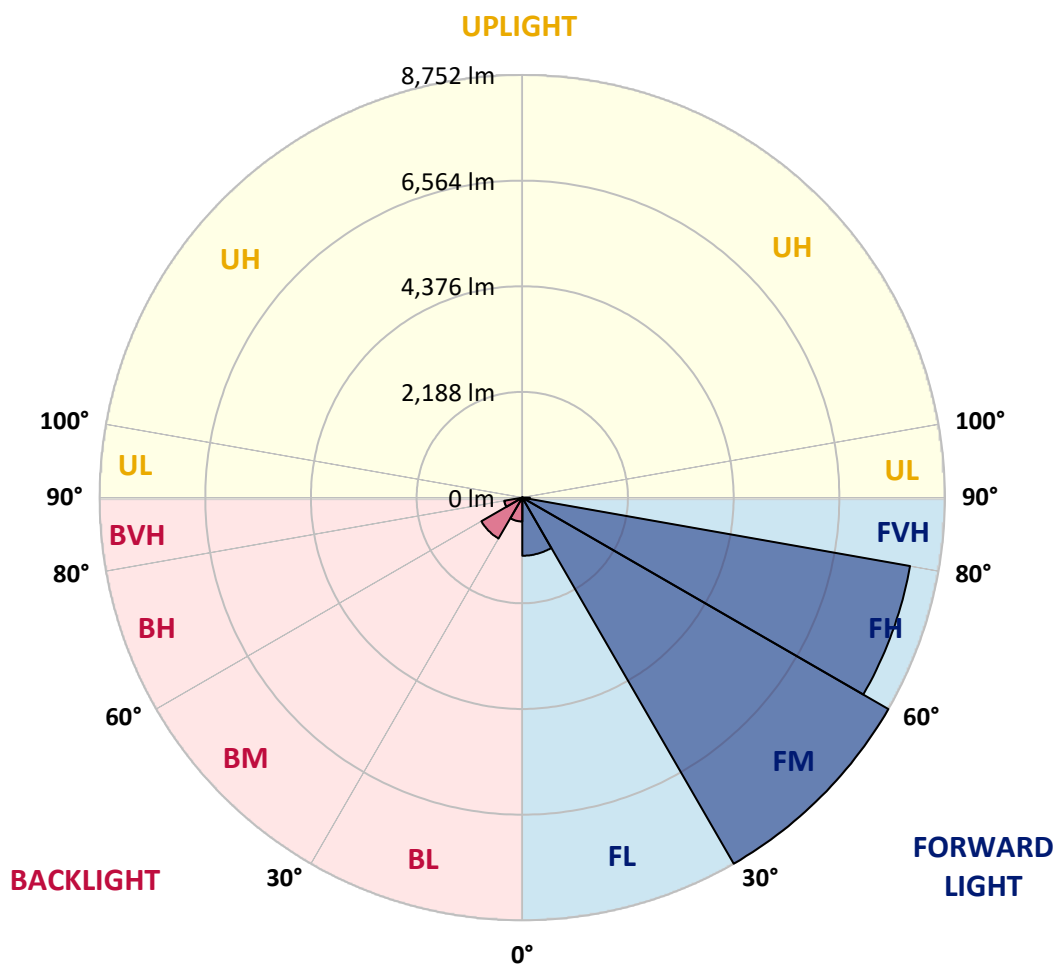
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1203.3	6.0			
FM	(30°-60°)	8751.8	43.5			
FH	(60°-80°)	8152.0	40.5			G4/12000
FVH	(80°-90°)	158.3	0.8			G2/225
BL	(0°-30°)	493.9	2.5	B1/500		
BM	(30°-60°)	978.0	4.9	B1/1000		
BH	(60°-80°)	379.6	1.9	B1/500		G1/500
BVH	(80°-90°)	2.2	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-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	1872.5	1872.5	1872.5	1872.5	1872.5	1872.5	1872.5	1872.5	1872.5	1872.5	1872.5
2.5°	2107.7	2098.5	2093.9	2069.3	2050.8	2027.8	2027.8	1998.5	1964.7	1927.8	1894.0
5°	2342.9	2327.5	2307.5	2286.0	2243.0	2181.5	2181.5	2120.0	2049.3	1986.2	1917.1
7.5°	2568.9	2555.1	2521.2	2479.7	2409.0	2344.4	2339.8	2250.7	2166.1	2070.8	1972.4
10°	2767.2	2756.4	2727.2	2647.3	2573.5	2489.0	2487.4	2387.5	2289.1	2172.3	2050.8
12.5°	2905.6	2907.1	2868.7	2791.8	2696.5	2616.6	2610.4	2512.0	2409.0	2282.9	2133.8
15°	3004.0	3004.0	2964.0	2877.9	2791.8	2721.1	2714.9	2628.8	2522.8	2386.0	2224.5
17.5°	3031.6	3040.9	2997.8	2920.9	2851.8	2790.3	2788.7	2716.5	2631.9	2499.7	2316.8
20°	3020.9	3030.1	2996.3	2936.3	2888.7	2853.3	2848.7	2819.5	2741.1	2616.6	2415.2
22.5°	2997.8	3007.0	2982.4	2947.1	2924.0	2934.8	2927.1	2951.7	2910.2	2759.5	2532.0
25°	3002.4	3011.6	2993.2	2973.2	2993.2	3059.3	3079.3	3185.4	3148.5	2940.9	2658.1
27.5°	3146.9	3165.4	3139.2	3148.5	3219.2	3372.9	3411.4	3594.3	3431.3	3171.5	2854.8
30°	3468.2	3455.9	3406.7	3451.3	3697.3	4023.2	4012.5	3983.2	3728.0	3437.5	3088.5
32.5°	3760.3	3749.6	3746.5	3938.7	4384.5	4542.8	4535.2	4252.3	3994.0	3741.9	3319.1
35°	3878.7	3837.2	3828.0	4293.8	5039.4	4830.3	4782.7	4363.0	4316.8	4073.9	3554.3
37.5°	4235.4	4206.2	4063.2	4352.2	4778.0	4708.9	4672.0	4553.6	4661.2	4367.6	3820.3
40°	4970.2	4888.7	4759.6	4476.7	4407.6	4436.8	4473.7	4798.0	5068.6	4768.8	4175.4
42.5°	5883.4	5864.9	5625.1	5097.8	4579.7	4619.7	4667.4	5308.4	5654.3	5373.0	4755.0
45°	6979.5	7005.7	6659.8	6037.1	5357.6	5391.4	5460.6	6061.7	6447.6	6312.3	5666.6
47.5°	7975.7	7955.7	7838.9	7191.7	6564.4	6489.1	6601.3	7028.7	7545.3	7566.8	6798.1
50°	8978.1	9084.1	8910.4	8656.8	8190.9	8032.6	7991.1	8200.2	8987.3	8884.3	8157.1
52.5°	10418.5	10473.9	10148.0	10083.4	10189.5	9676.0	9634.5	9685.2	10389.3	10035.7	9174.8
55°	11324.0	11291.8	11170.3	11674.6	12094.2	11453.2	11400.9	11196.4	11553.1	10849.0	10154.1
57.5°	11610.0	11656.1	11939.0	12850.6	13843.7	13299.5	13204.2	12623.1	12392.5	11606.9	11055.0
60°	11482.4	11566.9	12177.3	13533.2	14910.7	14829.2	14747.7	13771.5	12995.1	12240.3	11686.9
62.5°	10573.8	10692.2	11668.4	13411.7	15271.9	15780.8	15679.3	14487.9	13396.4	12547.8	11797.5
65°	8861.2	8948.9	10350.9	12309.5	14758.5	16106.7	16069.8	14712.3	13459.4	12266.4	11039.6
67.5°	6316.9	6615.2	7914.2	10374.0	13239.6	15550.2	15613.2	14443.3	12867.5	11050.4	9142.6
70°	3970.9	4173.9	5105.5	7426.9	10613.8	13642.3	13849.9	13211.9	11167.2	8613.7	6120.1
72.5°	1894.0	2044.7	2708.8	4701.2	7491.5	10733.7	10898.2	10845.9	8635.2	5426.8	3157.7
75°	844.0	900.9	1292.9	2399.8	4836.5	7214.7	7640.6	7711.3	5396.1	2655.0	1228.3
77.5°	430.5	432.0	605.7	1162.2	2415.2	4304.5	4389.1	4636.6	2925.6	1169.9	427.4
80°	229.1	244.4	321.3	548.8	1252.9	2120.0	2109.2	2318.3	1297.5	573.4	143.0
82.5°	103.0	113.8	181.4	287.5	611.9	804.0	867.1	948.5	556.5	365.9	63.0
85°	30.7	36.9	89.2	144.5	221.4	232.1	259.8	335.1	315.2	259.8	32.3
87.5°	4.6	4.6	36.9	40.0	32.3	41.5	43.0	47.7	101.5	95.3	16.9
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°	1872.5	1872.5	1872.5	1872.5	1872.5	1872.5	1872.5	1872.5	1872.5	1872.5	1872.5
2.5°	1875.6	1864.8	1826.4	1794.1	1766.4	1749.5	1729.5	1717.2	1711.1	1706.4	1708.0
5°	1883.2	1857.1	1791.0	1738.7	1698.8	1655.7	1626.5	1609.6	1601.9	1589.6	1589.6
7.5°	1926.3	1884.8	1792.5	1712.6	1643.4	1585.0	1529.7	1509.7	1495.8	1492.8	1489.7
10°	1987.8	1935.5	1809.4	1698.8	1600.4	1520.4	1442.0	1372.8	1319.0	1286.8	1282.1
12.5°	2064.6	1989.3	1835.6	1689.5	1563.5	1422.0	1214.5	1074.6	980.8	951.6	956.2
15°	2135.4	2053.9	1861.7	1681.8	1495.8	1179.1	943.9	784.0	736.4	731.8	733.3
17.5°	2219.9	2123.1	1892.5	1671.1	1309.8	900.9	701.0	658.0	667.2	682.6	681.0
20°	2307.5	2196.9	1929.4	1606.5	1045.4	678.0	619.5	624.2	638.0	651.8	654.9
22.5°	2401.3	2281.4	1972.4	1451.2	797.9	590.3	587.3	593.4	607.2	622.6	625.7
25°	2530.5	2387.5	2004.7	1248.3	604.2	545.8	551.9	562.7	575.0	591.9	595.0
27.5°	2696.5	2530.5	2021.6	983.9	522.7	505.8	507.3	522.7	538.1	553.4	553.4
30°	2911.7	2701.1	1987.8	744.1	482.7	467.4	461.2	470.4	490.4	505.8	507.3
32.5°	3103.9	2862.5	1898.6	568.8	453.5	432.0	416.6	418.2	425.8	435.1	436.6
35°	3296.1	3019.3	1746.4	478.1	422.8	398.2	375.1	362.8	356.7	352.1	356.7
37.5°	3542.0	3214.6	1543.5	435.1	396.6	365.9	333.6	307.5	285.9	272.1	275.2
40°	3858.7	3485.1	1303.7	407.4	372.0	335.1	292.1	258.3	221.4	209.1	202.9
42.5°	4381.4	3895.6	1051.5	384.3	347.4	302.9	249.0	202.9	169.1	156.8	159.9
45°	5207.0	4413.7	810.2	359.7	322.8	267.5	209.1	159.9	132.2	126.1	129.1
47.5°	6301.6	5084.0	624.2	332.1	292.1	229.1	164.5	126.1	109.2	107.6	106.1
50°	7331.6	5708.1	521.2	301.3	255.2	190.6	135.3	106.1	95.3	93.8	93.8
52.5°	8263.2	6155.5	424.3	266.0	215.2	156.8	113.8	93.8	84.6	79.9	79.9
55°	9091.8	6447.6	344.4	222.9	169.1	124.5	98.4	84.6	73.8	67.6	66.1
57.5°	9717.5	6483.0	258.3	178.3	126.1	96.9	84.6	73.8	61.5	53.8	50.7
60°	9985.0	6177.0	190.6	135.3	93.8	76.9	67.6	60.0	46.1	38.4	36.9
62.5°	9716.0	5582.1	141.4	103.0	72.3	56.9	47.7	44.6	32.3	23.1	21.5
65°	8752.1	4722.7	112.2	78.4	53.8	41.5	30.7	29.2	20.0	10.8	9.2
67.5°	7011.8	3698.8	89.2	58.4	38.4	27.7	20.0	18.4	10.8	3.1	3.1
70°	4559.7	2364.4	72.3	43.0	24.6	18.4	12.3	9.2	6.1	1.5	0.0
72.5°	2255.3	1105.3	58.4	33.8	16.9	9.2	4.6	3.1	4.6	0.0	0.0
75°	874.7	393.6	43.0	23.1	9.2	4.6	3.1	0.0	1.5	0.0	0.0
77.5°	290.6	130.7	26.1	12.3	6.1	3.1	0.0	0.0	0.0	0.0	0.0
80°	107.6	50.7	13.8	7.7	3.1	1.5	0.0	0.0	0.0	0.0	0.0
82.5°	43.0	20.0	9.2	6.1	3.1	0.0	0.0	0.0	0.0	0.0	0.0
85°	21.5	12.3	6.1	4.6	3.1	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	15.4	9.2	6.1	4.6	3.1	1.5	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)