

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: P528945

Luminaire Tested: **GALN-SA4A-740-U-T3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528945
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-15)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4A-740-U-T3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10803 lumens
Efficiency: N/A
Efficacy: 89.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

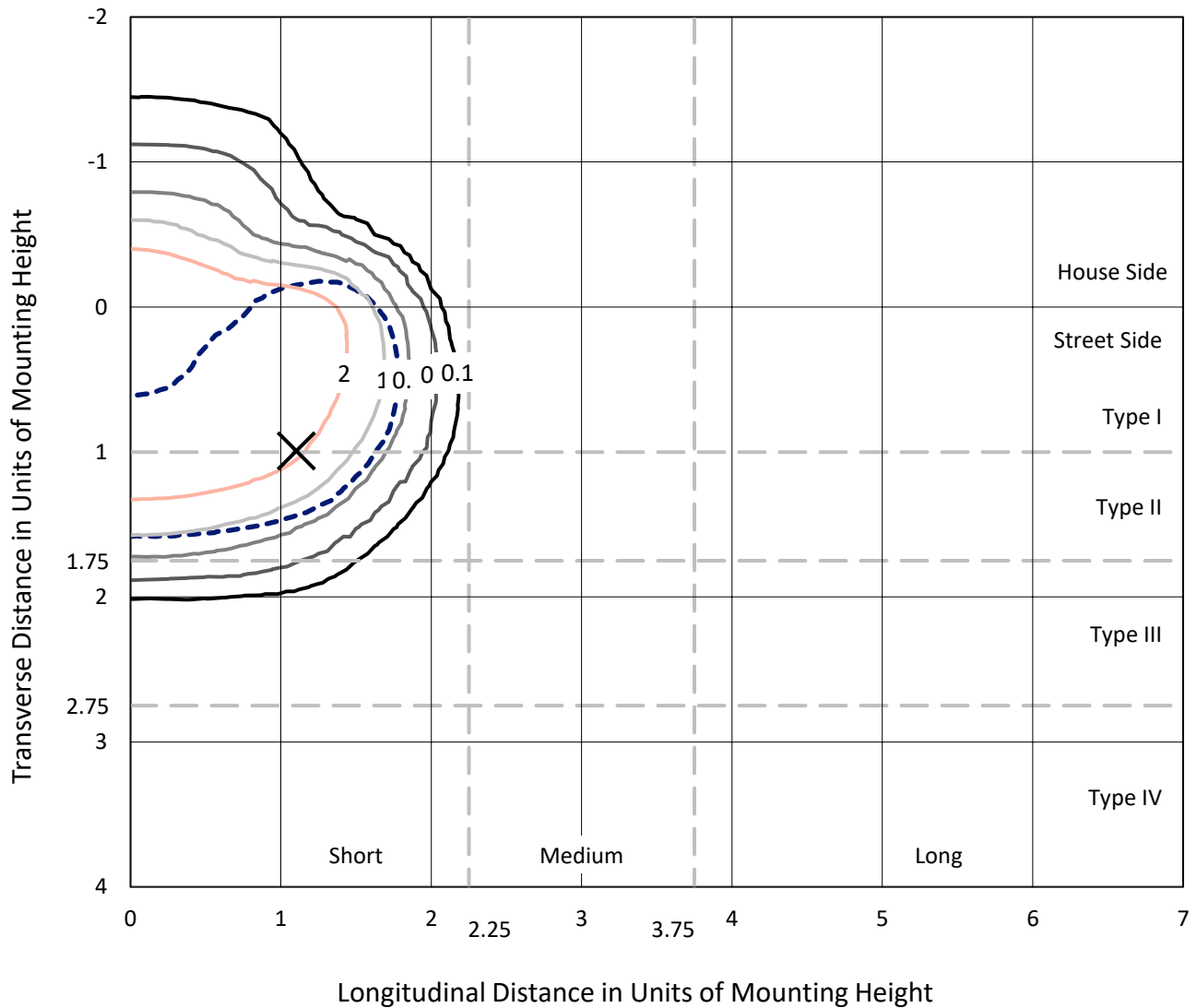
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

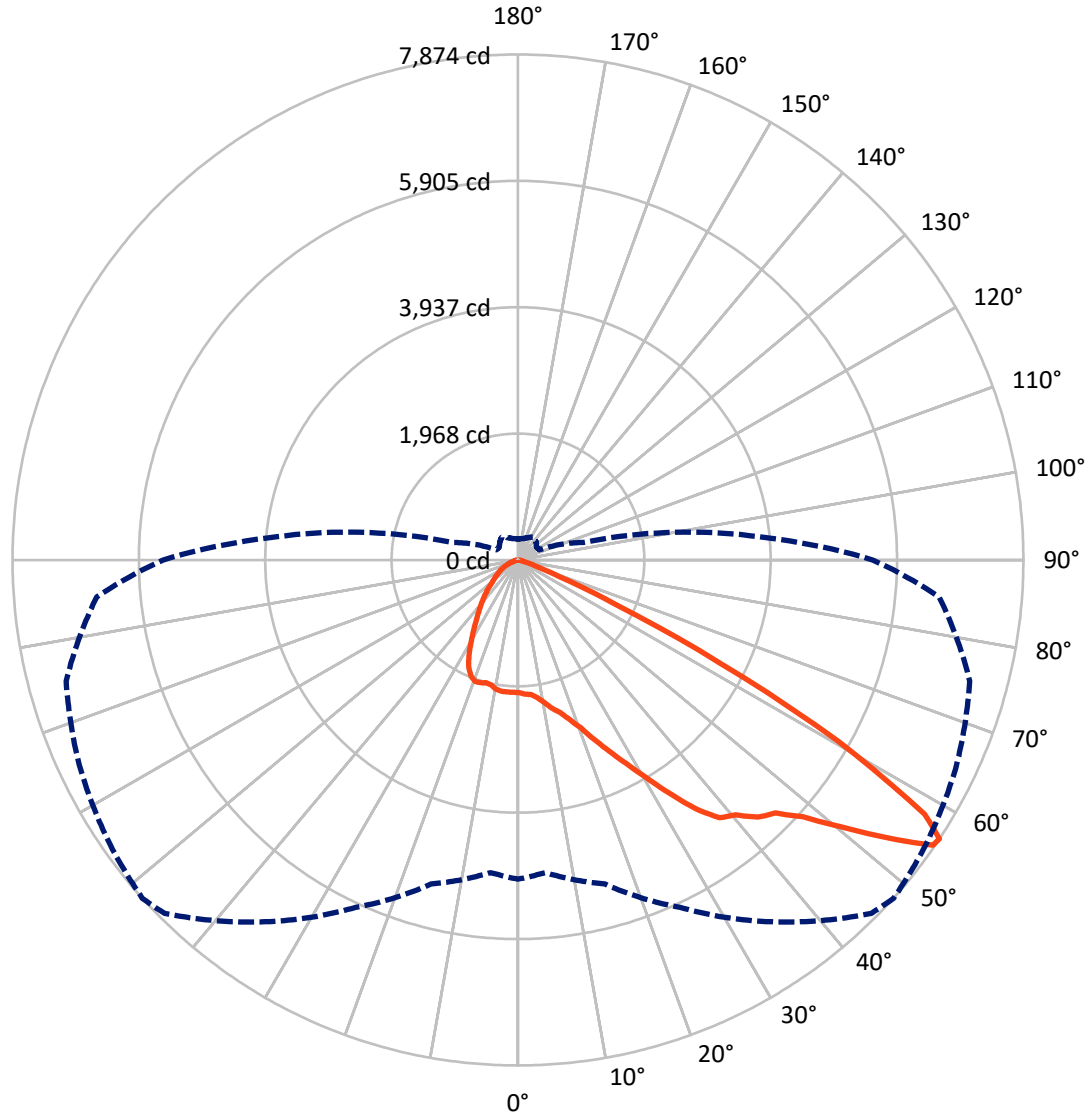
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 48-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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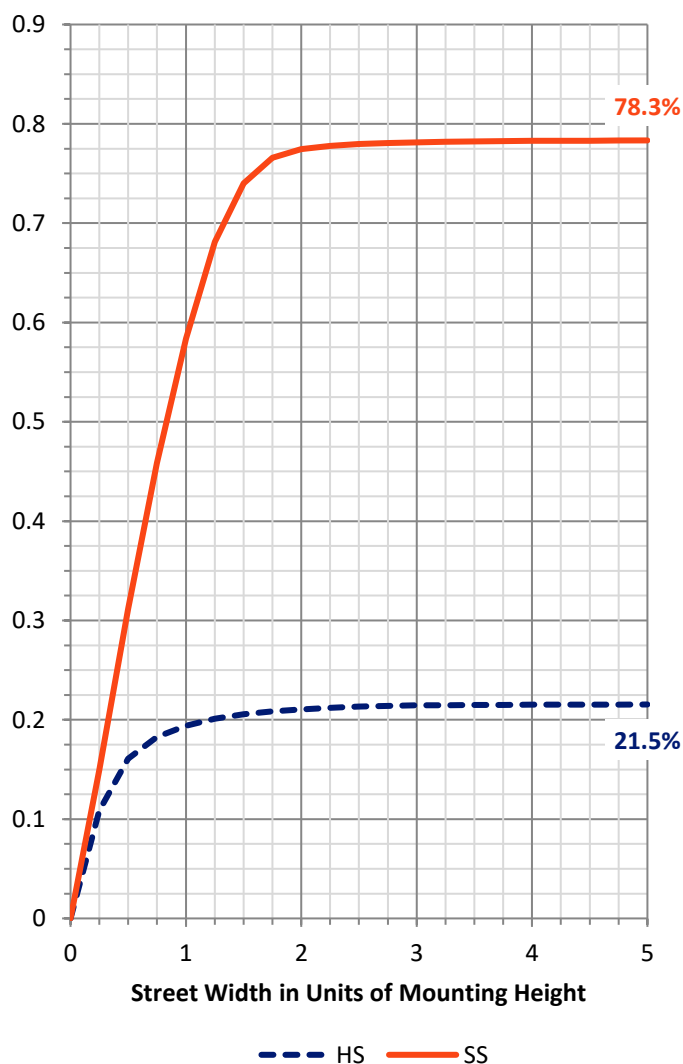
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2349.5	0.0	2349.5
	% Fixture	21.7	0.0	21.7
Street Side	Lumens	8453.5	0.0	8453.5
	% Fixture	78.3	0.0	78.3
Total	Lumens	10803.0	0.0	10803.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	201.0	1.9
10°-20°	642.3	5.9
20°-30°	1165.1	10.8
30°-40°	1830.1	16.9
40°-50°	2669.8	24.7
50°-60°	3216.6	29.8
60°-70°	941.8	8.7
70°-80°	119.5	1.1
80°-90°	16.8	0.2
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°	10803.0	100.0
0°-180°	10803.0	100.0

Coefficient of Utilization

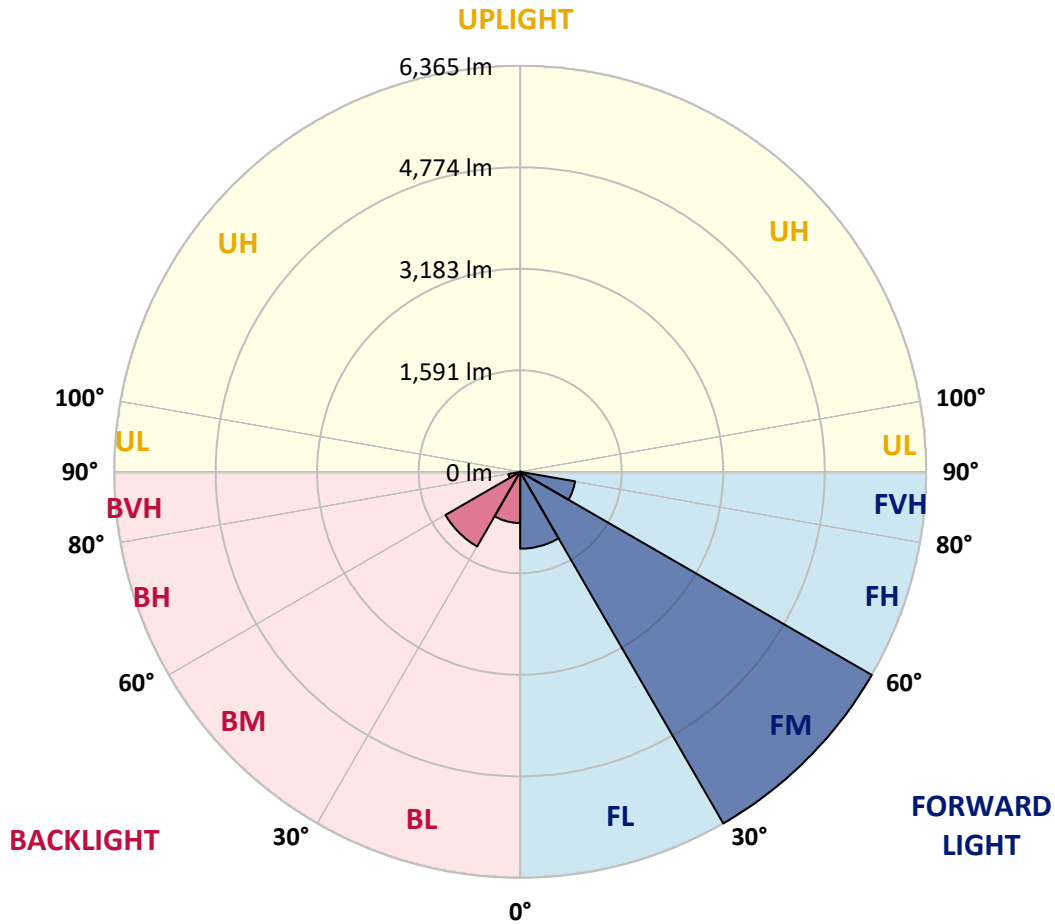


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1205.4	11.2			
FM (30°-60°)	6365.2	58.9			
FH (60°-80°)	874.6	8.1			G1/1800
FVH (80°-90°)	8.4	0.1			G0/10
BL (0°-30°)	803.0	7.4	B2/1000		
BM (30°-60°)	1351.4	12.5	B2/2500		
BH (60°-80°)	186.7	1.7	B1/500		G1/500
BVH (80°-90°)	8.3	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	48°	55°	65°	75°	85°
0°	2063.4	2063.4	2063.4	2063.4	2063.4	2063.4	2063.4	2063.4	2063.4	2063.4	2063.4
2.5°	2100.8	2090.9	2090.9	2075.2	2092.9	2085.0	2090.9	2071.2	2090.9	2061.4	2085.0
5°	2110.6	2112.6	2104.7	2114.5	2114.5	2126.3	2106.7	2124.4	2134.2	2112.6	2102.7
7.5°	2161.7	2165.7	2163.7	2155.8	2171.6	2169.6	2167.6	2153.9	2157.8	2149.9	2138.1
10°	2262.0	2260.1	2269.9	2250.2	2238.4	2252.2	2256.1	2234.5	2218.8	2212.9	2175.5
12.5°	2407.6	2384.0	2370.2	2350.6	2356.5	2336.8	2372.2	2334.8	2327.0	2291.5	2254.2
15°	2525.6	2521.7	2523.7	2492.2	2456.8	2464.6	2464.6	2445.0	2433.2	2389.9	2336.8
17.5°	2767.6	2684.9	2702.7	2663.3	2633.8	2631.8	2614.1	2618.1	2586.6	2496.1	2415.5
20°	2956.4	2921.0	2893.4	2826.6	2781.3	2795.1	2787.2	2767.6	2757.7	2639.7	2525.6
22.5°	3125.6	3137.4	3092.1	3074.4	3011.5	3017.4	3033.1	3015.4	2940.7	2818.7	2649.5
25°	3363.6	3349.8	3288.8	3267.2	3208.2	3229.8	3290.8	3277.0	3229.8	3009.5	2745.9
27.5°	3644.8	3597.6	3609.4	3511.1	3454.0	3515.0	3587.8	3656.6	3522.9	3233.7	2860.0
30°	3843.5	3794.3	3790.4	3786.5	3772.7	3843.5	3928.1	3991.0	3882.8	3458.0	3048.8
32.5°	3941.9	3953.7	3987.1	3975.3	4095.3	4240.8	4329.4	4419.8	4284.1	3823.8	3298.7
35°	4203.5	4128.7	4203.5	4211.3	4335.3	4644.1	4756.2	4972.6	4939.1	4341.2	3603.5
37.5°	4356.9	4351.0	4360.8	4435.6	4555.6	4937.2	5096.5	5263.7	5200.7	4651.9	3983.2
40°	4610.6	4626.4	4624.4	4681.4	4813.2	5157.5	5222.4	5358.1	5364.0	5082.7	4541.8
42.5°	5017.8	4954.9	4913.6	4972.6	5157.5	5348.3	5478.1	5450.5	5645.3	5605.9	5259.7
45°	5383.7	5421.0	5360.1	5458.4	5525.3	5627.6	5623.6	5682.6	5930.5	6117.4	5800.7
47.5°	5725.9	5749.5	5779.0	5845.9	5991.5	6007.2	5973.8	5948.2	6290.4	6483.2	6219.6
50°	5930.5	5952.1	6089.8	6209.8	6481.2	6516.7	6536.3	6471.4	6703.5	6725.2	6615.0
52.5°	5875.4	5899.0	6091.8	6487.1	6919.9	7244.4	7185.4	7075.3	7061.5	7146.1	6980.9
55°	5387.6	5366.0	5631.5	6247.2	7057.6	7836.5	7844.4	7728.3	7506.1	7449.0	6925.8
56°	4972.6	4888.0	5226.3	5969.8	6880.5	7785.4	7873.9	7750.0	7541.5	7285.7	6585.5
57.5°	4073.6	4154.3	4490.6	5106.3	6268.8	7417.5	7468.7	7439.2	7281.8	6853.0	5794.8
60°	2246.3	2387.9	2684.9	3438.3	4463.1	5692.5	5733.8	5973.8	6003.3	5247.9	3987.1
62.5°	954.0	938.3	1247.1	1801.8	2541.4	3436.3	3513.1	3758.9	3804.2	3025.2	2000.4
65°	387.5	409.1	564.5	906.8	1343.5	1565.7	1673.9	1754.6	1904.1	1249.0	737.6
67.5°	255.7	253.7	332.4	517.3	723.9	698.3	698.3	737.6	682.5	509.5	318.7
70°	182.9	188.8	238.0	358.0	450.4	334.4	320.6	306.9	348.2	336.4	257.7
72.5°	120.0	127.9	159.3	214.4	234.1	182.9	182.9	220.3	287.2	271.4	210.5
75°	78.7	80.6	98.3	123.9	116.1	94.4	104.3	147.5	208.5	200.6	149.5
77.5°	53.1	55.1	66.9	80.6	64.9	53.1	57.0	74.7	102.3	102.3	78.7
80°	19.7	21.6	27.5	25.6	29.5	37.4	41.3	51.1	61.0	61.0	53.1
82.5°	0.0	2.0	5.9	13.8	21.6	29.5	33.4	39.3	45.2	51.1	49.2
85°	0.0	2.0	5.9	9.8	15.7	17.7	19.7	13.8	11.8	11.8	9.8
87.5°	0.0	0.0	2.0	2.0	2.0	2.0	2.0	2.0	3.9	2.0	2.0
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°	2063.4	2063.4	2063.4	2063.4	2063.4	2063.4	2063.4	2063.4	2063.4	2063.4	2063.4
2.5°	2063.4	2061.4	2061.4	2055.5	2067.3	2061.4	2065.3	2063.4	2037.8	2057.5	2043.7
5°	2085.0	2098.8	2077.1	2073.2	2057.5	2063.4	2063.4	2043.7	2061.4	2059.4	2055.5
7.5°	2140.1	2116.5	2092.9	2069.3	2065.3	2059.4	2037.8	2029.9	2043.7	2028.0	2051.6
10°	2163.7	2167.6	2132.2	2100.8	2071.2	2029.9	2000.4	1982.7	1961.1	1984.7	1998.5
12.5°	2271.9	2232.5	2171.6	2122.4	2022.1	1980.8	1951.3	1943.4	1980.8	1988.6	1974.9
15°	2309.3	2303.4	2224.7	2114.5	2010.3	1961.1	1967.0	1951.3	1955.2	1935.5	1939.5
17.5°	2386.0	2319.1	2226.6	2088.9	2008.3	1996.5	1961.1	1898.2	1862.7	1847.0	1860.8
20°	2470.5	2405.6	2271.9	2098.8	2026.0	1994.5	1878.5	1801.8	1729.0	1689.6	1691.6
22.5°	2545.3	2464.6	2252.2	2102.7	2041.7	1911.9	1772.3	1620.8	1530.3	1469.3	1471.3
25°	2635.8	2521.7	2260.1	2110.6	2000.4	1780.1	1579.5	1432.0	1323.8	1282.5	1296.2
27.5°	2686.9	2557.1	2303.4	2128.3	1892.2	1593.3	1376.9	1239.2	1176.3	1156.6	1154.6
30°	2840.3	2635.8	2356.5	2092.9	1711.3	1392.6	1192.0	1107.4	1046.4	1028.7	1032.7
32.5°	3068.5	2779.4	2425.3	2000.4	1526.4	1213.6	1072.0	1009.1	952.0	918.6	914.7
35°	3259.3	3025.2	2498.1	1856.8	1312.0	1075.9	987.4	908.8	822.2	784.8	775.0
37.5°	3623.2	3302.6	2482.3	1640.5	1107.4	973.7	896.9	800.6	725.8	674.7	668.8
40°	4107.1	3627.1	2405.6	1376.9	956.0	883.2	800.6	708.1	615.7	572.4	568.5
42.5°	4695.2	4024.5	2266.0	1109.4	804.5	792.7	718.0	611.7	529.1	497.6	499.6
45°	5173.2	4364.8	2124.4	891.0	692.4	704.2	639.3	539.0	481.9	456.3	456.3
47.5°	5598.1	4594.9	1970.9	735.7	588.1	615.7	558.6	499.6	450.4	430.8	426.8
50°	6007.2	4829.0	1817.5	596.0	501.6	529.1	523.2	476.0	436.7	413.1	415.0
52.5°	6262.9	4866.3	1622.8	487.8	438.6	470.1	489.8	446.5	403.2	389.5	385.5
55°	5950.2	4384.4	1258.9	401.3	371.8	413.1	450.4	401.3	367.8	344.2	342.3
56°	5529.2	3920.2	1052.3	369.8	352.1	397.3	436.7	383.6	346.2	332.4	322.6
57.5°	4681.4	3208.2	777.0	328.5	326.5	369.8	415.0	365.9	322.6	310.8	310.8
60°	2919.0	1805.7	470.1	275.4	283.2	328.5	373.7	326.5	287.2	287.2	293.1
62.5°	1329.7	751.4	285.2	234.1	243.9	283.2	332.4	295.0	273.4	295.0	299.0
65°	452.4	324.6	206.5	186.9	192.8	234.1	285.2	299.0	297.0	310.8	318.7
67.5°	253.7	208.5	173.1	155.4	151.5	173.1	234.1	299.0	287.2	281.3	285.2
70°	214.4	177.0	153.4	137.7	131.8	139.7	181.0	226.2	202.6	196.7	192.8
72.5°	173.1	147.5	133.8	123.9	106.2	90.5	82.6	86.5	96.4	102.3	112.1
75°	122.0	112.1	112.1	100.3	76.7	57.0	45.2	37.4	25.6	17.7	19.7
77.5°	68.8	68.8	70.8	61.0	49.2	37.4	27.5	19.7	9.8	3.9	2.0
80°	47.2	51.1	55.1	49.2	41.3	33.4	23.6	13.8	5.9	0.0	0.0
82.5°	47.2	53.1	57.0	49.2	41.3	31.5	23.6	13.8	5.9	2.0	0.0
85°	9.8	11.8	13.8	15.7	23.6	23.6	17.7	11.8	5.9	2.0	0.0
87.5°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	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)