

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: P652304

Luminaire Tested: **GALN-SA3B-840-U-T3R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P652304
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-11)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3B-840-U-T3R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8688.3 lumens
Efficiency: N/A
Efficacy: 71.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

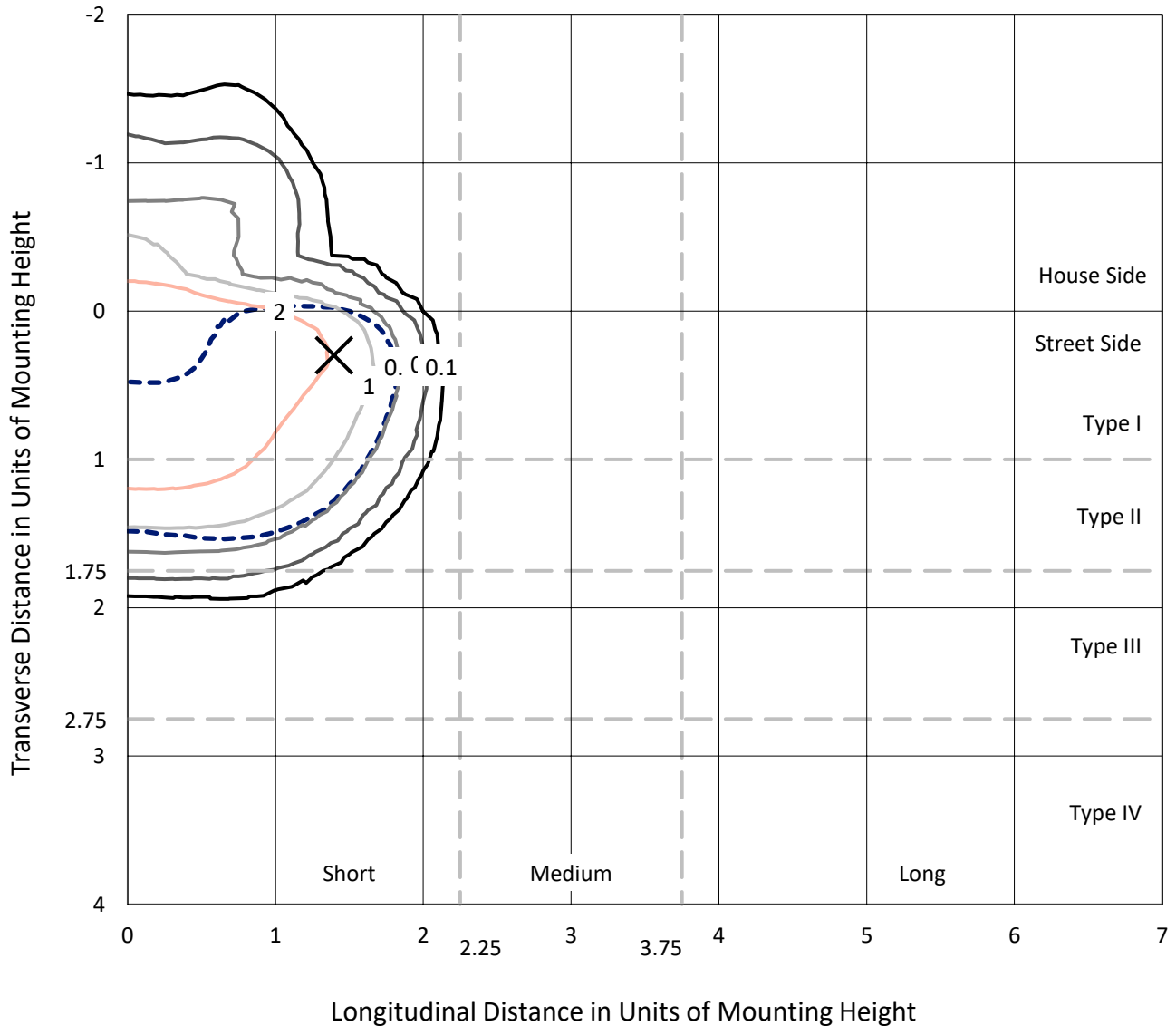
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

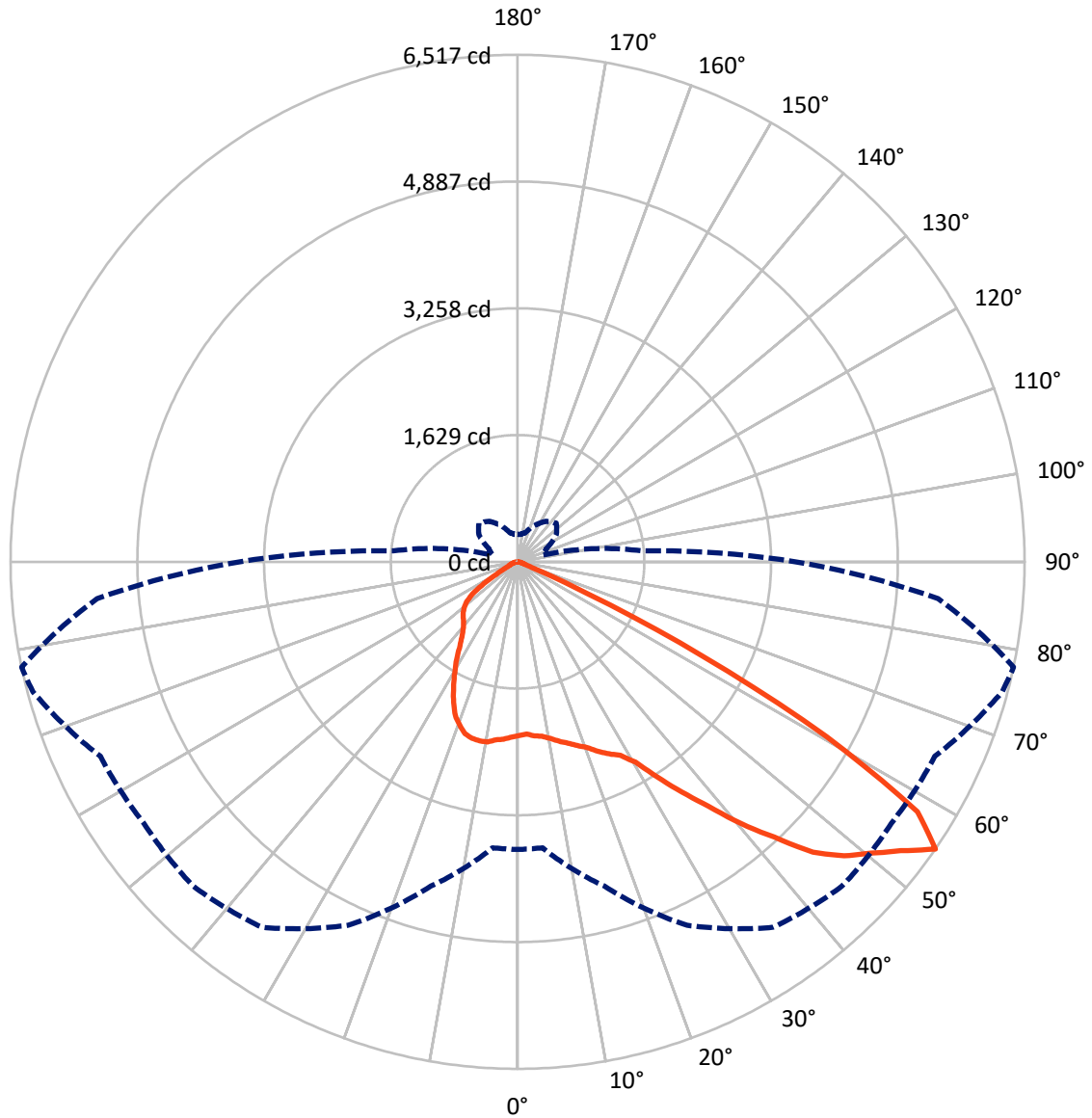
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 78-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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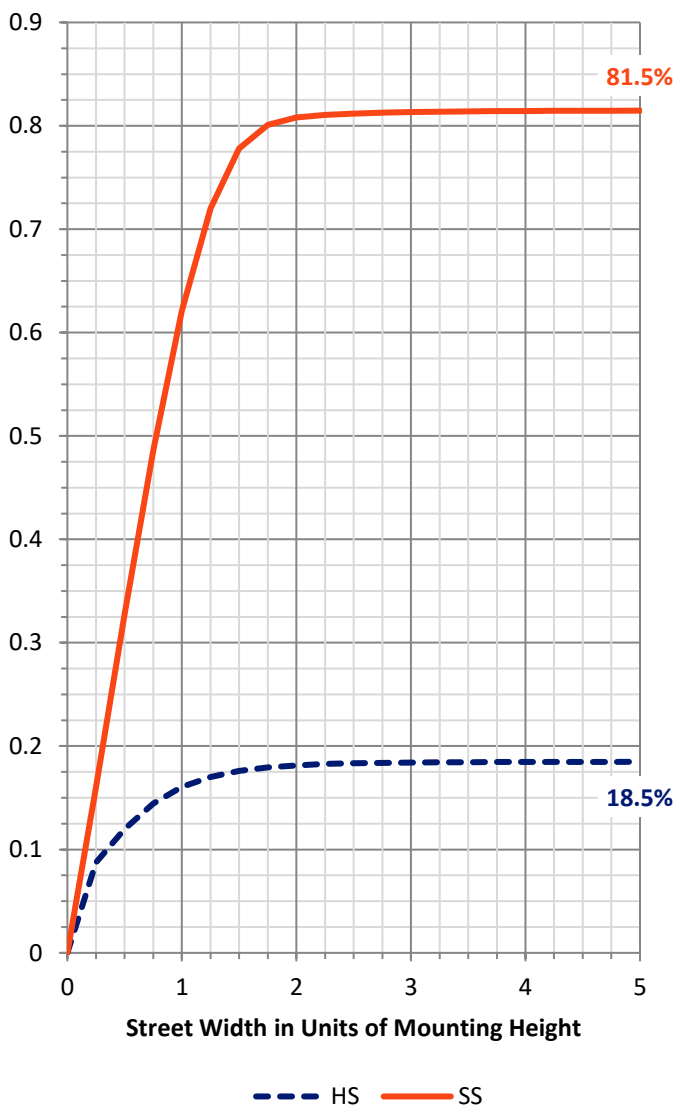
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1613.8	0.0	1613.8
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	7074.6	0.0	7074.6
	% Fixture	81.4	0.0	81.4
Total	Lumens	8688.3	0.0	8688.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	199.2	2.3
10°-20°	527.1	6.1
20°-30°	924.0	10.6
30°-40°	1523.5	17.5
40°-50°	2216.9	25.5
50°-60°	2512.0	28.9
60°-70°	718.2	8.3
70°-80°	55.8	0.6
80°-90°	11.6	0.1
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°	8688.3	100.0
0°-180°	8688.3	100.0

Coefficient of Utilization



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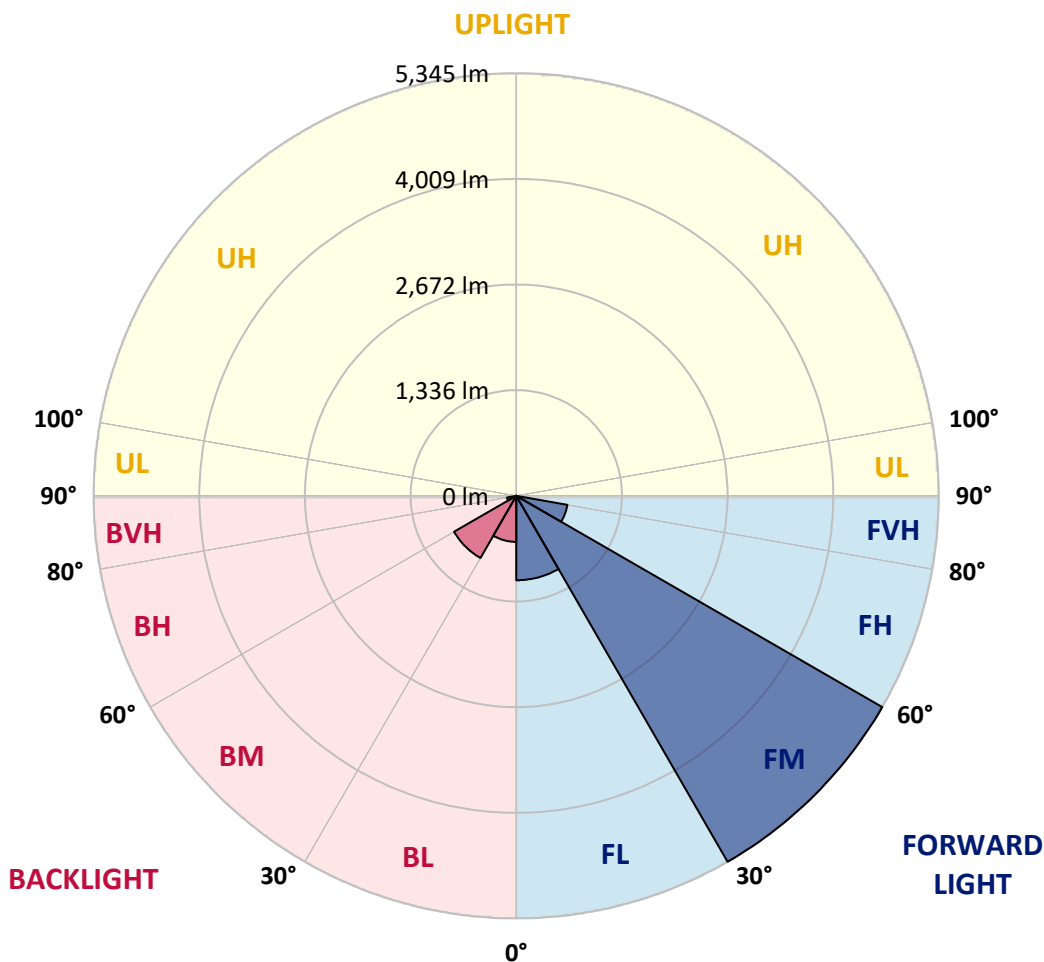
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1068.0	12.3			
FM (30°-60°)	5344.7	61.5			
FH (60°-80°)	656.2	7.6			G0/660
FVH (80°-90°)	5.6	0.1			G0/10
BL (0°-30°)	582.3	6.7	B2/1000		
BM (30°-60°)	907.8	10.4	B1/1000		
BH (60°-80°)	117.8	1.4	B1/500		G1/500
BVH (80°-90°)	5.9	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°	55°	65°	75°	78°	85°
0°	2233.8	2233.8	2233.8	2233.8	2233.8	2233.8	2233.8	2233.8	2233.8	2233.8	2233.8
2.5°	2100.2	2120.4	2123.5	2148.3	2146.8	2188.7	2201.1	2202.7	2230.7	2216.7	2252.5
5°	2041.2	2030.3	2025.6	2069.1	2081.6	2118.8	2149.9	2168.5	2226.0	2246.2	2283.5
7.5°	1988.4	1988.4	1991.5	2030.3	2025.6	2073.8	2106.4	2163.9	2247.7	2264.8	2309.9
10°	1937.1	1918.4	1941.8	1982.2	2016.3	2038.1	2106.4	2160.8	2258.7	2308.4	2370.4
12.5°	1910.7	1920.0	1923.1	1952.6	1989.9	2055.2	2092.4	2182.6	2336.3	2365.8	2432.6
15°	2076.9	2058.3	2013.2	1986.8	2017.9	2048.9	2142.1	2233.8	2376.7	2418.6	2493.2
17.5°	2269.5	2254.0	2216.7	2145.2	2075.3	2132.8	2205.9	2289.7	2420.2	2482.3	2592.6
20°	2521.1	2496.3	2459.0	2319.2	2258.7	2196.5	2274.1	2373.6	2491.6	2547.6	2661.0
22.5°	2821.0	2821.0	2737.1	2567.7	2441.9	2382.9	2415.5	2473.0	2570.9	2647.0	2758.8
25°	3133.2	3123.9	3047.8	2872.3	2659.4	2589.5	2626.8	2667.1	2693.6	2735.5	2810.1
27.5°	3490.5	3436.1	3339.8	3145.6	2957.6	2822.6	2862.9	2827.2	2794.6	2816.3	2923.5
30°	3732.8	3767.0	3644.3	3457.9	3280.7	3130.1	3137.9	3106.8	2957.6	2988.7	3052.4
32.5°	3984.5	4006.2	3937.9	3835.3	3658.3	3482.7	3419.0	3392.6	3280.7	3294.8	3232.6
35°	4194.2	4236.1	4175.6	4130.5	4079.2	3937.9	3762.3	3847.7	3667.6	3633.4	3471.8
37.5°	4386.8	4374.4	4445.9	4399.2	4388.3	4288.9	4096.3	4113.4	3992.2	3984.5	3798.0
40°	4559.2	4562.3	4660.2	4681.9	4638.5	4461.3	4181.7	4316.9	4414.7	4424.1	4184.8
42.5°	4702.1	4744.1	4827.9	5003.5	4938.3	4643.1	4270.3	4417.9	4781.3	4838.9	4551.5
45°	4826.4	4911.9	5015.9	5172.8	5135.6	4900.9	4490.9	4626.0	5172.8	5323.5	4896.3
47.5°	4834.2	4946.0	5059.5	5292.4	5339.0	5039.2	4719.2	4955.3	5483.5	5646.6	5147.9
50°	4803.1	4862.2	5088.9	5342.1	5447.7	5264.5	5039.2	5231.9	5784.8	5887.3	5275.3
52.5°	4434.9	4480.0	4935.2	5388.7	5643.5	5519.2	5463.3	5617.1	6092.5	6168.6	5394.9
55°	3697.1	3689.3	4315.3	5154.2	5733.6	5896.7	5862.5	5916.9	6448.1	6516.5	5424.4
57.5°	2529.0	2670.3	3210.9	4292.0	5182.2	5808.1	5843.9	5753.8	6033.4	6059.8	4728.5
60°	1363.8	1422.9	1857.9	2864.4	3945.6	4733.2	4826.4	4663.3	4641.6	4567.0	3375.5
62.5°	542.1	571.6	818.6	1418.3	2149.9	2876.9	3077.3	3010.4	2867.6	2671.9	1747.6
65°	257.9	276.5	407.0	663.3	953.8	1199.2	1399.6	1461.7	1078.1	970.9	576.3
67.5°	175.5	189.5	296.7	379.0	340.2	355.7	462.9	430.3	253.2	215.9	160.0
70°	133.6	142.9	237.7	257.9	152.2	107.1	119.6	111.9	104.1	105.6	104.1
72.5°	94.8	102.5	174.0	152.2	66.8	49.7	63.7	76.1	76.1	76.1	74.6
75°	57.4	65.3	101.0	59.0	26.4	26.4	40.4	51.3	54.3	55.9	52.8
77.5°	29.5	37.3	34.1	17.1	17.1	20.2	29.5	35.7	38.9	38.9	37.3
80°	6.2	6.2	6.2	9.3	17.1	21.8	29.5	32.6	37.3	37.3	34.1
82.5°	0.0	1.5	4.6	9.3	15.6	20.2	27.9	32.6	37.3	38.9	35.7
85°	0.0	1.5	3.1	6.2	10.8	12.4	10.8	9.3	9.3	9.3	9.3
87.5°	0.0	0.0	1.5	1.5	1.5	3.1	3.1	3.1	3.1	3.1	3.1
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°	2233.8	2233.8	2233.8	2233.8	2233.8	2233.8	2233.8	2233.8	2233.8	2233.8	2233.8
2.5°	2255.6	2260.2	2252.5	2250.9	2244.6	2263.3	2218.2	2207.4	2235.4	2209.0	2215.1
5°	2285.1	2295.9	2282.0	2258.7	2224.4	2171.6	2126.6	2067.6	2039.6	2019.4	2016.3
7.5°	2306.8	2314.6	2300.6	2226.0	2123.5	1989.9	1890.5	1817.5	1760.0	1742.9	1715.0
10°	2395.3	2396.8	2327.0	2162.3	1962.0	1786.4	1634.1	1522.3	1464.9	1429.1	1413.6
12.5°	2454.4	2451.3	2309.9	2036.5	1769.3	1536.3	1362.3	1227.2	1174.4	1157.3	1146.4
15°	2529.0	2511.8	2269.5	1907.6	1520.8	1269.2	1112.2	1019.0	1014.3	1003.5	1014.3
17.5°	2587.9	2539.8	2210.5	1673.0	1283.1	1045.4	942.9	949.2	961.5	972.4	974.0
20°	2684.3	2584.8	2075.3	1468.0	1062.5	896.3	894.7	922.7	953.8	966.2	978.7
22.5°	2757.3	2603.5	1930.9	1249.0	882.3	835.7	862.1	904.1	927.4	939.8	958.5
25°	2783.7	2552.3	1738.3	1029.9	795.3	807.8	848.1	876.2	905.6	919.6	911.8
27.5°	2810.1	2525.9	1508.3	848.1	748.7	789.1	823.3	851.3	860.6	879.2	891.6
30°	2873.8	2434.2	1301.8	733.2	725.4	776.7	801.6	810.9	835.7	846.6	846.6
32.5°	2925.1	2398.4	1082.7	678.9	722.3	782.9	786.0	786.0	789.1	781.4	778.3
35°	3030.7	2275.7	887.0	646.2	720.7	784.5	792.2	765.8	694.3	666.4	658.7
37.5°	3161.2	2196.5	742.5	638.5	731.7	803.1	815.5	716.1	622.9	577.9	570.1
40°	3319.6	2140.6	647.7	635.4	756.5	846.6	809.3	677.3	556.2	490.9	487.8
42.5°	3504.4	2089.3	584.1	633.8	787.6	891.6	803.1	644.6	487.8	444.3	450.5
45°	3652.0	2061.4	540.6	622.9	798.4	918.0	807.8	587.2	459.8	431.9	435.0
47.5°	3767.0	2002.3	504.9	604.3	796.9	927.4	765.8	563.9	445.8	453.6	461.4
50°	3770.1	1923.1	459.8	563.9	773.6	910.3	717.7	542.1	442.7	475.3	490.9
52.5°	3728.2	1811.3	411.7	506.4	719.2	851.3	674.1	532.8	428.7	425.6	444.3
55°	3579.0	1601.5	330.8	410.1	607.4	702.2	635.4	515.7	386.8	351.0	354.1
57.5°	2892.5	1148.0	243.9	293.6	430.3	514.2	573.2	508.0	347.9	298.2	299.8
60°	1791.1	650.8	178.6	200.4	265.7	312.3	464.5	472.2	310.7	251.6	248.5
62.5°	919.6	321.5	138.3	141.4	163.1	183.3	318.5	396.1	281.1	239.3	239.3
65°	307.6	158.4	121.2	108.7	108.7	113.4	192.6	274.9	237.7	200.4	200.4
67.5°	132.0	118.1	105.6	94.8	87.0	82.3	108.7	160.0	177.1	152.2	146.0
70°	102.5	99.4	91.7	79.2	68.4	62.1	63.7	82.3	101.0	97.9	94.8
72.5°	76.1	76.1	73.0	62.1	52.8	45.1	42.0	43.5	48.2	49.7	51.3
75°	52.8	54.3	54.3	48.2	38.9	32.6	27.9	23.3	18.7	15.6	14.0
77.5°	35.7	37.3	40.4	35.7	29.5	21.8	17.1	12.4	7.7	3.1	3.1
80°	31.0	35.7	38.9	35.7	31.0	23.3	17.1	9.3	4.6	0.0	0.0
82.5°	32.6	35.7	40.4	34.1	29.5	21.8	17.1	10.8	4.6	1.5	0.0
85°	7.7	7.7	9.3	10.8	14.0	15.6	12.4	7.7	4.6	1.5	0.0
87.5°	3.1	3.1	3.1	3.1	3.1	1.5	1.5	1.5	1.5	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)