

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: P527109

Luminaire Tested: **GALN-SA2A-760-U-AFL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527109
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-27)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2A-760-U-AFL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 5700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6860 lumens
Efficiency: N/A
Efficacy: 108.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G0

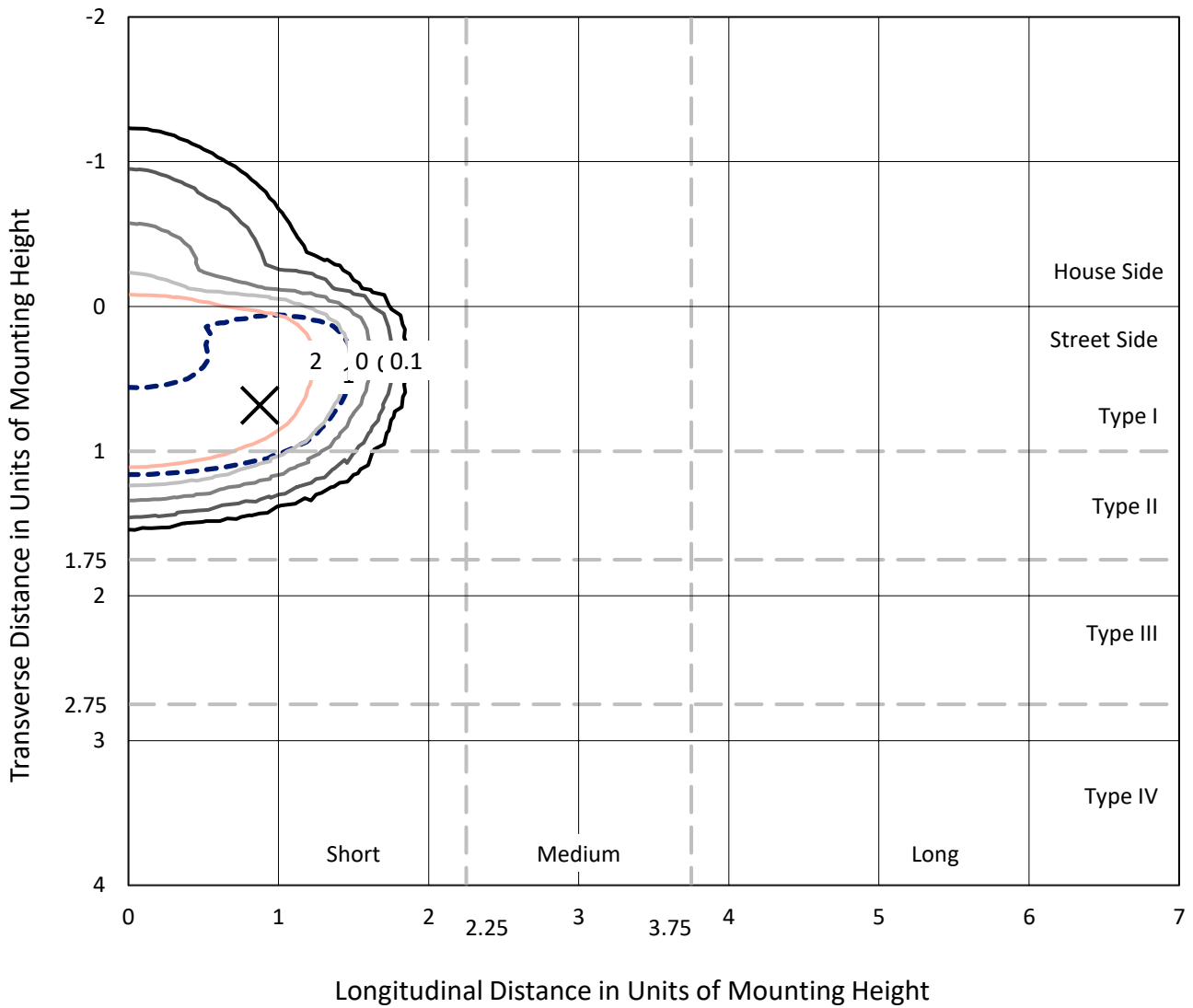
Input Watts (W): 63
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

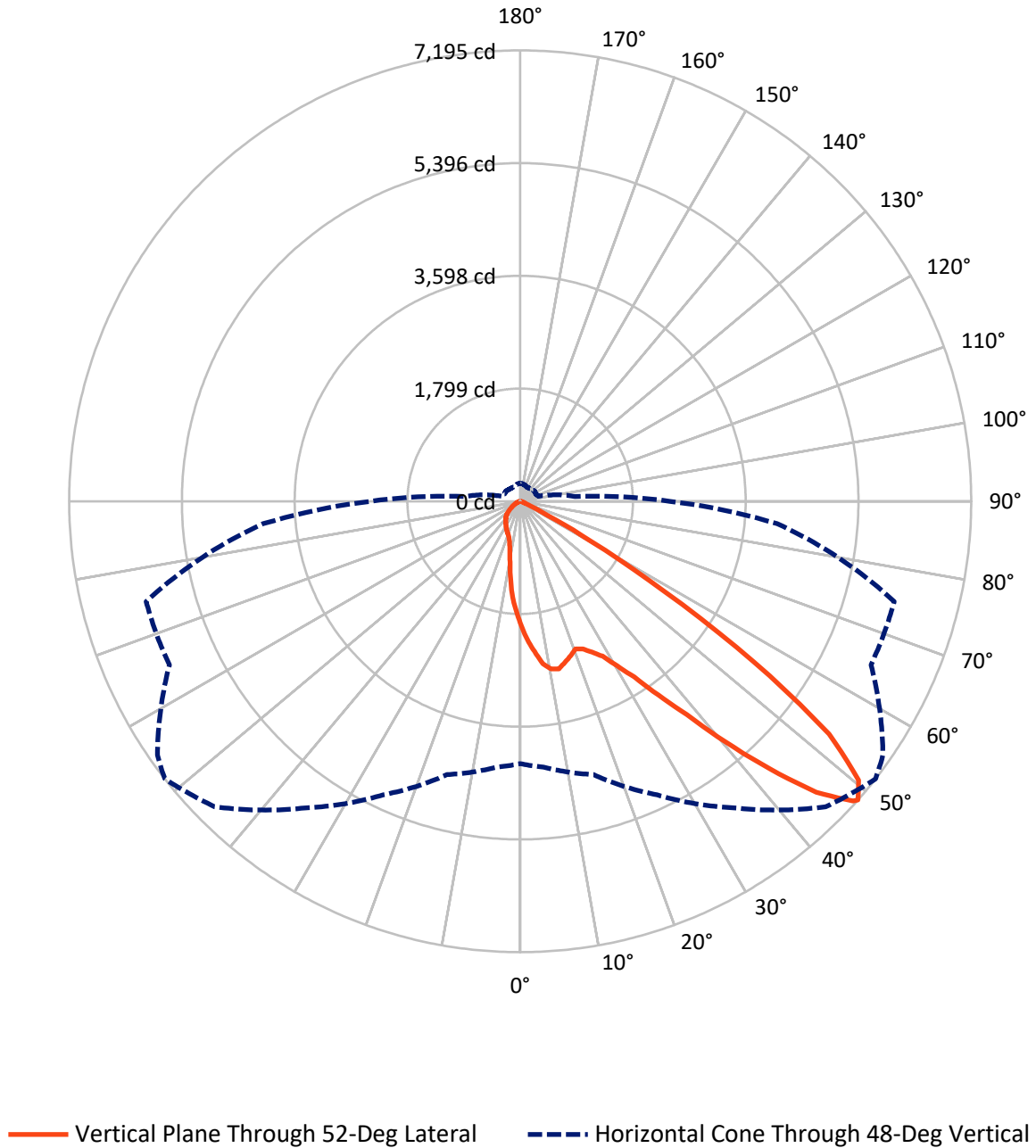
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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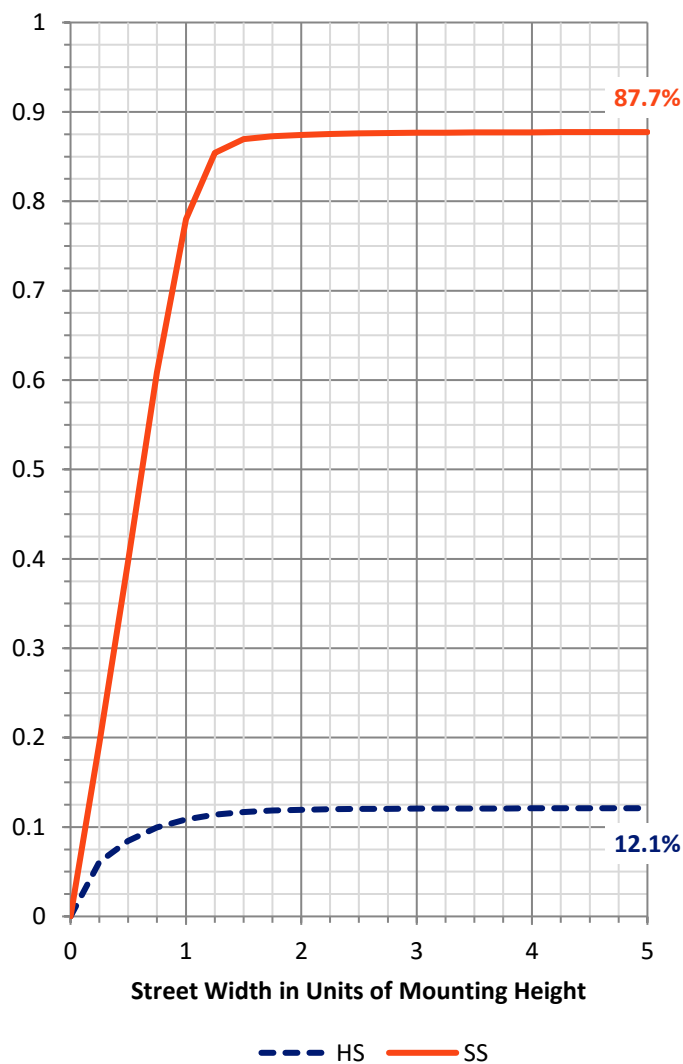
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	835.2	0.0	835.2
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	6024.8	0.0	6024.8
	% Fixture	87.8	0.0	87.8
Total	Lumens	6860.0	0.0	6860.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	181.3	2.6
10°-20°	473.9	6.9
20°-30°	809.1	11.8
30°-40°	1489.9	21.7
40°-50°	2313.8	33.7
50°-60°	1392.5	20.3
60°-70°	161.1	2.3
70°-80°	31.2	0.5
80°-90°	7.2	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°	6860.0	100.0
0°-180°	6860.0	100.0

Coefficient of Utilization



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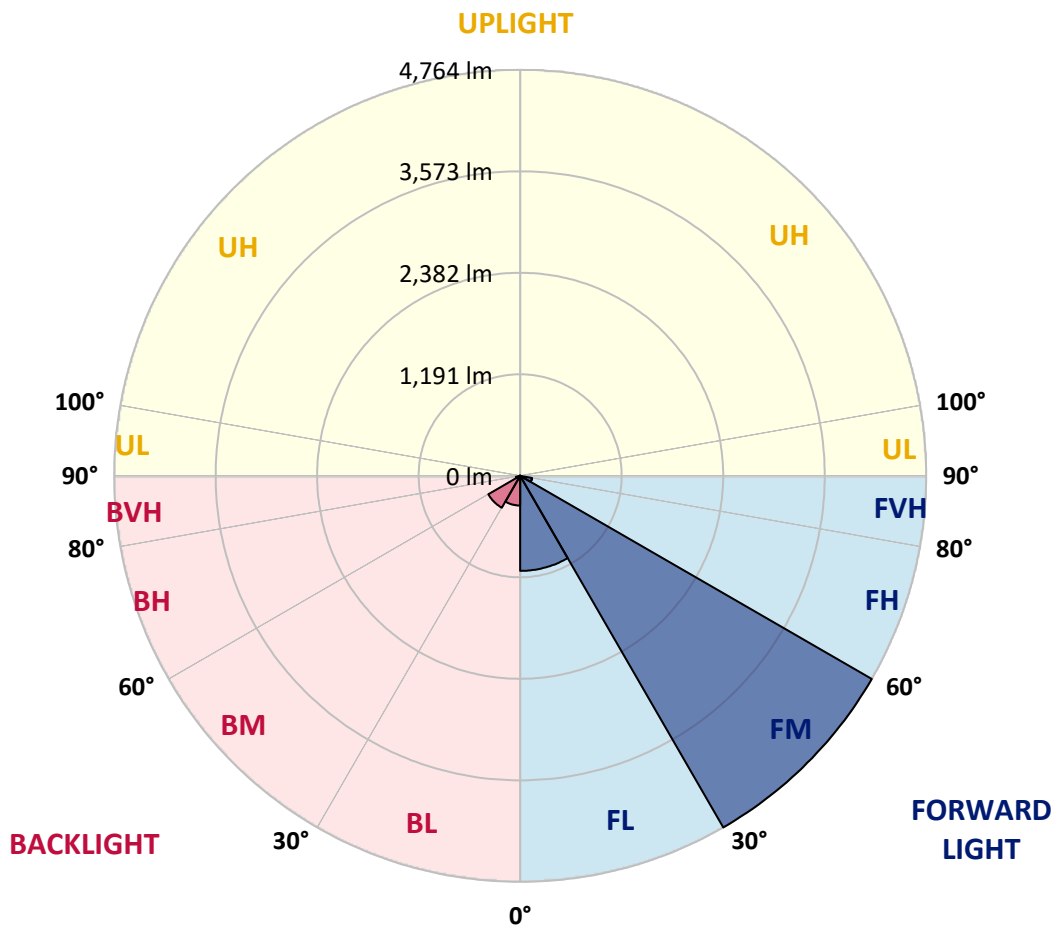
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1115.4	16.3			
FM (30°-60°)	4764.1	69.4			
FH (60°-80°)	141.8	2.1			G0/660
FVH (80°-90°)	3.4	0.1			G0/10
BL (0°-30°)	348.9	5.1	B1/500		
BM (30°-60°)	432.1	6.3	B1/1000		
BH (60°-80°)	50.4	0.7	B0/110		G0/110
BVH (80°-90°)	3.8	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G0

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	1981.1	1981.1	1981.1	1981.1	1981.1	1981.1	1981.1	1981.1	1981.1	1981.1	1981.1
2.5°	2401.1	2346.1	2351.1	2315.1	2294.1	2260.1	2214.1	2205.1	2155.1	2087.1	2018.1
5°	2617.1	2604.1	2621.1	2569.1	2571.1	2515.1	2407.1	2409.1	2294.1	2183.1	2076.1
7.5°	2631.1	2601.1	2618.1	2664.1	2691.1	2681.1	2620.1	2567.1	2458.1	2295.1	2139.1
10°	2356.1	2413.1	2431.1	2507.1	2615.1	2729.1	2722.1	2725.1	2634.1	2421.1	2193.1
12.5°	2191.1	2153.1	2214.1	2260.1	2423.1	2644.1	2745.1	2767.1	2774.1	2543.1	2247.1
15°	2116.1	2116.1	2126.1	2139.1	2257.1	2461.1	2667.1	2731.1	2882.1	2703.1	2332.1
17.5°	2163.1	2161.1	2175.1	2148.1	2192.1	2349.1	2595.1	2668.1	3003.1	2860.1	2399.1
20°	2306.1	2313.1	2304.1	2226.1	2229.1	2347.1	2515.1	2630.1	3085.1	2996.1	2488.1
22.5°	2505.1	2509.1	2458.1	2373.1	2348.1	2406.1	2561.1	2649.1	3151.1	3159.1	2515.1
25°	2735.1	2719.1	2709.1	2589.1	2513.1	2563.1	2665.1	2716.1	3192.1	3299.1	2592.1
27.5°	3054.1	3022.1	2961.1	2854.1	2798.1	2727.1	2800.1	2884.1	3309.1	3495.1	2676.1
30°	3525.1	3497.1	3378.1	3240.1	3093.1	3023.1	3046.1	3092.1	3520.1	3722.1	2787.1
32.5°	4234.1	4175.1	4003.1	3740.1	3540.1	3347.1	3341.1	3390.1	3709.1	4036.1	2919.1
35°	5015.1	4997.1	4744.1	4473.1	4086.1	3788.1	3793.1	3819.1	4071.1	4448.1	3092.1
37.5°	5534.2	5633.2	5472.1	5181.1	4856.1	4430.1	4322.1	4331.1	4568.1	4936.1	3404.1
40°	5935.2	5851.2	5870.2	5802.2	5580.2	5290.1	5051.1	5004.1	5143.1	5476.1	3714.1
42.5°	5760.2	5764.2	5881.2	6042.2	6097.2	6076.2	5832.2	5743.2	5635.2	5918.2	4009.1
45°	5266.1	5369.1	5521.2	5947.2	6321.2	6672.2	6624.2	6476.2	5975.2	6268.2	4179.1
47.5°	4478.1	4474.1	4723.1	5277.1	6108.2	6930.2	7148.2	7044.2	6216.2	6229.2	4144.1
48°	4187.1	4259.1	4516.1	5168.1	5973.2	6892.2	7195.2	7064.2	6175.2	6177.2	4114.1
50°	3095.1	3082.1	3402.1	4202.1	5335.1	6476.2	6997.2	7099.2	6174.2	5914.2	3904.1
52.5°	1635.0	1691.0	1924.1	2642.1	3772.1	5300.1	6172.2	6331.2	5956.2	5484.1	3602.1
55°	695.0	628.0	807.0	1193.0	2122.1	3541.1	4528.1	4882.1	5036.1	4853.1	3151.1
57.5°	248.0	271.0	312.0	449.0	892.0	1938.1	2700.1	2975.1	3489.1	3561.1	2147.1
60°	159.0	162.0	175.0	206.0	335.0	747.0	1281.0	1500.0	1733.0	1789.0	1002.0
62.5°	123.0	124.0	130.0	135.0	159.0	290.0	481.0	570.0	592.0	509.0	263.0
65°	103.0	104.0	106.0	106.0	113.0	136.0	168.0	185.0	180.0	178.0	149.0
67.5°	79.0	81.0	85.0	85.0	89.0	83.0	93.0	99.0	112.0	136.0	127.0
70°	62.0	63.0	66.0	68.0	68.0	60.0	67.0	73.0	82.0	101.0	100.0
72.5°	48.0	50.0	52.0	52.0	49.0	41.0	48.0	53.0	59.0	70.0	68.0
75°	37.0	37.0	38.0	31.0	24.0	21.0	29.0	35.0	44.0	46.0	38.0
77.5°	10.0	11.0	10.0	9.0	10.0	15.0	19.0	22.0	28.0	28.0	25.0
80°	0.0	1.0	3.0	6.0	10.0	14.0	17.0	19.0	22.0	24.0	23.0
82.5°	0.0	1.0	3.0	6.0	9.0	11.0	15.0	16.0	18.0	21.0	21.0
85°	0.0	1.0	2.0	4.0	6.0	7.0	7.0	6.0	6.0	5.0	4.0
87.5°	0.0	0.0	1.0	2.0	2.0	3.0	3.0	3.0	3.0	3.0	3.0
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°	1981.1	1981.1	1981.1	1981.1	1981.1	1981.1	1981.1	1981.1	1981.1	1981.1	1981.1
2.5°	1991.1	1960.1	1913.1	1839.1	1768.0	1722.0	1678.0	1629.0	1602.0	1600.0	1585.0
5°	2015.1	1945.1	1833.1	1706.0	1570.0	1453.0	1335.0	1258.0	1189.0	1151.0	1144.0
7.5°	2028.1	1937.1	1756.0	1543.0	1311.0	1120.0	988.0	891.0	853.0	825.0	824.0
10°	2055.1	1923.1	1641.0	1327.0	1040.0	847.0	756.0	712.0	691.0	683.0	671.0
12.5°	2075.1	1897.1	1523.0	1105.0	822.0	702.0	662.0	652.0	653.0	657.0	652.0
15°	2103.1	1874.1	1364.0	907.0	690.0	632.0	632.0	634.0	648.0	650.0	649.0
17.5°	2101.1	1829.0	1200.0	747.0	610.0	602.0	605.0	624.0	633.0	636.0	629.0
20°	2125.1	1787.0	1031.0	638.0	565.0	577.0	597.0	602.0	613.0	615.0	607.0
22.5°	2118.1	1682.0	874.0	552.0	531.0	554.0	574.0	580.0	577.0	571.0	570.0
25°	2105.1	1592.0	730.0	495.0	506.0	531.0	550.0	539.0	533.0	534.0	535.0
27.5°	2082.1	1478.0	611.0	455.0	472.0	509.0	508.0	504.0	510.0	505.0	510.0
30°	2078.1	1364.0	513.0	419.0	447.0	474.0	476.0	483.0	490.0	481.0	490.0
32.5°	2084.1	1239.0	443.0	397.0	432.0	433.0	455.0	462.0	457.0	437.0	439.0
35°	2130.1	1143.0	392.0	385.0	408.0	409.0	430.0	421.0	399.0	387.0	394.0
37.5°	2227.1	1063.0	368.0	374.0	376.0	389.0	390.0	372.0	374.0	373.0	377.0
40°	2351.1	1002.0	351.0	364.0	362.0	371.0	335.0	345.0	354.0	357.0	359.0
42.5°	2436.1	958.0	340.0	348.0	344.0	328.0	308.0	318.0	325.0	336.0	338.0
45°	2474.1	923.0	327.0	320.0	320.0	291.0	283.0	285.0	301.0	313.0	311.0
47.5°	2412.1	889.0	304.0	283.0	290.0	266.0	257.0	257.0	274.0	289.0	286.0
48°	2388.1	875.0	305.0	275.0	280.0	262.0	253.0	251.0	270.0	284.0	284.0
50°	2269.1	823.0	279.0	253.0	243.0	241.0	235.0	237.0	249.0	262.0	262.0
52.5°	2037.1	711.0	236.0	217.0	199.0	211.0	214.0	210.0	216.0	228.0	227.0
55°	1700.0	546.0	189.0	180.0	166.0	179.0	185.0	180.0	174.0	183.0	183.0
57.5°	1089.0	294.0	151.0	153.0	139.0	152.0	157.0	145.0	134.0	141.0	140.0
60°	491.0	176.0	124.0	121.0	112.0	127.0	135.0	121.0	106.0	111.0	116.0
62.5°	184.0	125.0	94.0	92.0	90.0	104.0	108.0	97.0	82.0	85.0	86.0
65°	135.0	110.0	75.0	68.0	72.0	82.0	80.0	69.0	59.0	59.0	61.0
67.5°	115.0	96.0	61.0	53.0	53.0	54.0	50.0	44.0	41.0	43.0	45.0
70°	90.0	76.0	48.0	41.0	37.0	33.0	29.0	28.0	25.0	28.0	27.0
72.5°	58.0	51.0	37.0	31.0	28.0	23.0	19.0	18.0	15.0	14.0	14.0
75°	31.0	31.0	29.0	25.0	22.0	18.0	15.0	12.0	8.0	6.0	6.0
77.5°	22.0	24.0	26.0	24.0	20.0	15.0	12.0	8.0	4.0	2.0	2.0
80°	21.0	24.0	26.0	23.0	20.0	15.0	11.0	6.0	3.0	1.0	1.0
82.5°	19.0	22.0	24.0	21.0	18.0	13.0	10.0	6.0	3.0	1.0	1.0
85°	4.0	5.0	6.0	6.0	7.0	9.0	7.0	5.0	2.0	1.0	1.0
87.5°	3.0	3.0	3.0	3.0	3.0	3.0	2.0	2.0	1.0	1.0	1.0
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)