

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: P648252

Luminaire Tested: **GALN-SA2B-835-U-AFL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P648252
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-SA2B-835-U-AFL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3500K, 800mA 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: 6683.7 lumens
Efficiency: N/A
Efficacy: 81.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G0

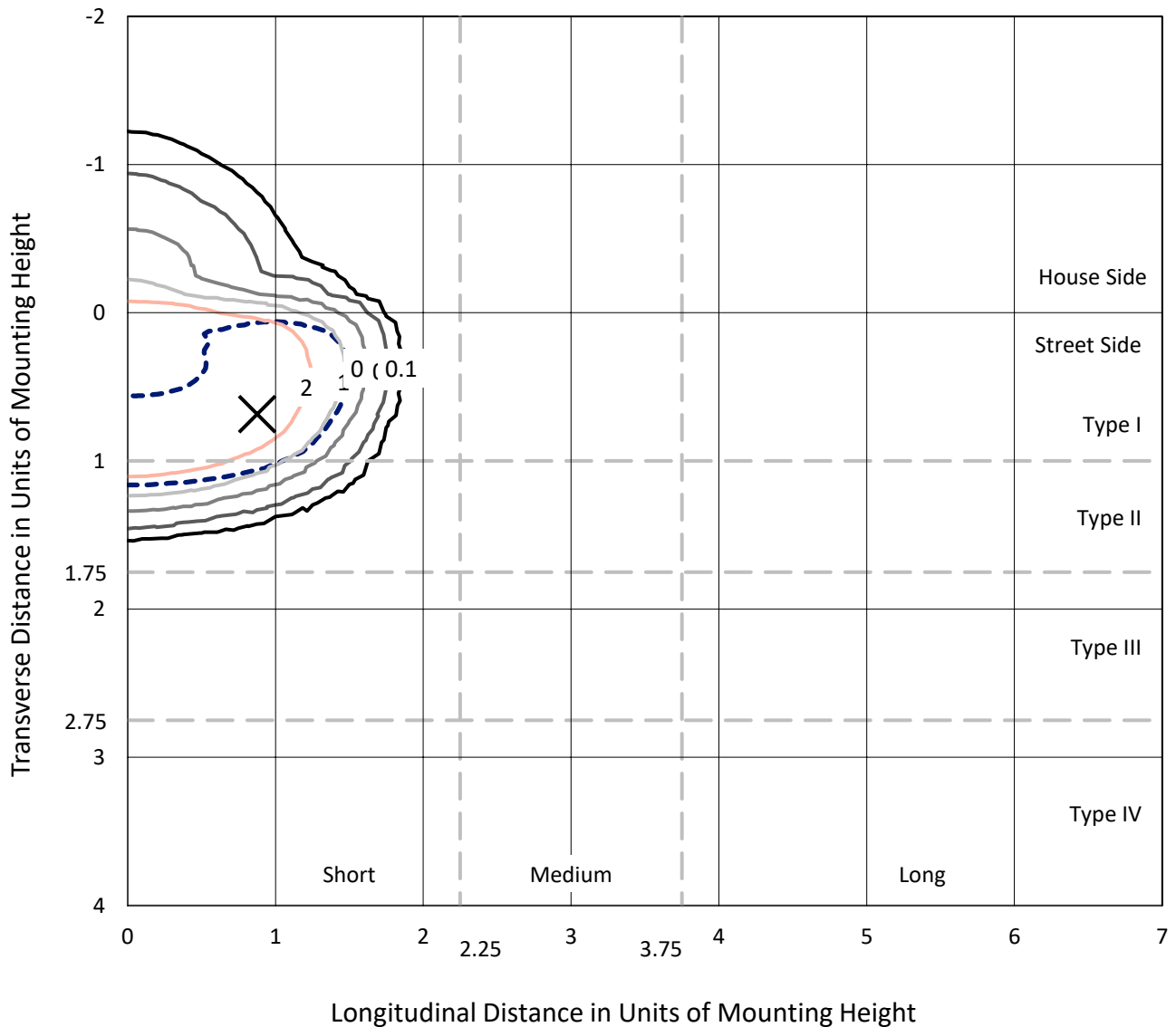
Input Watts (W): 82
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

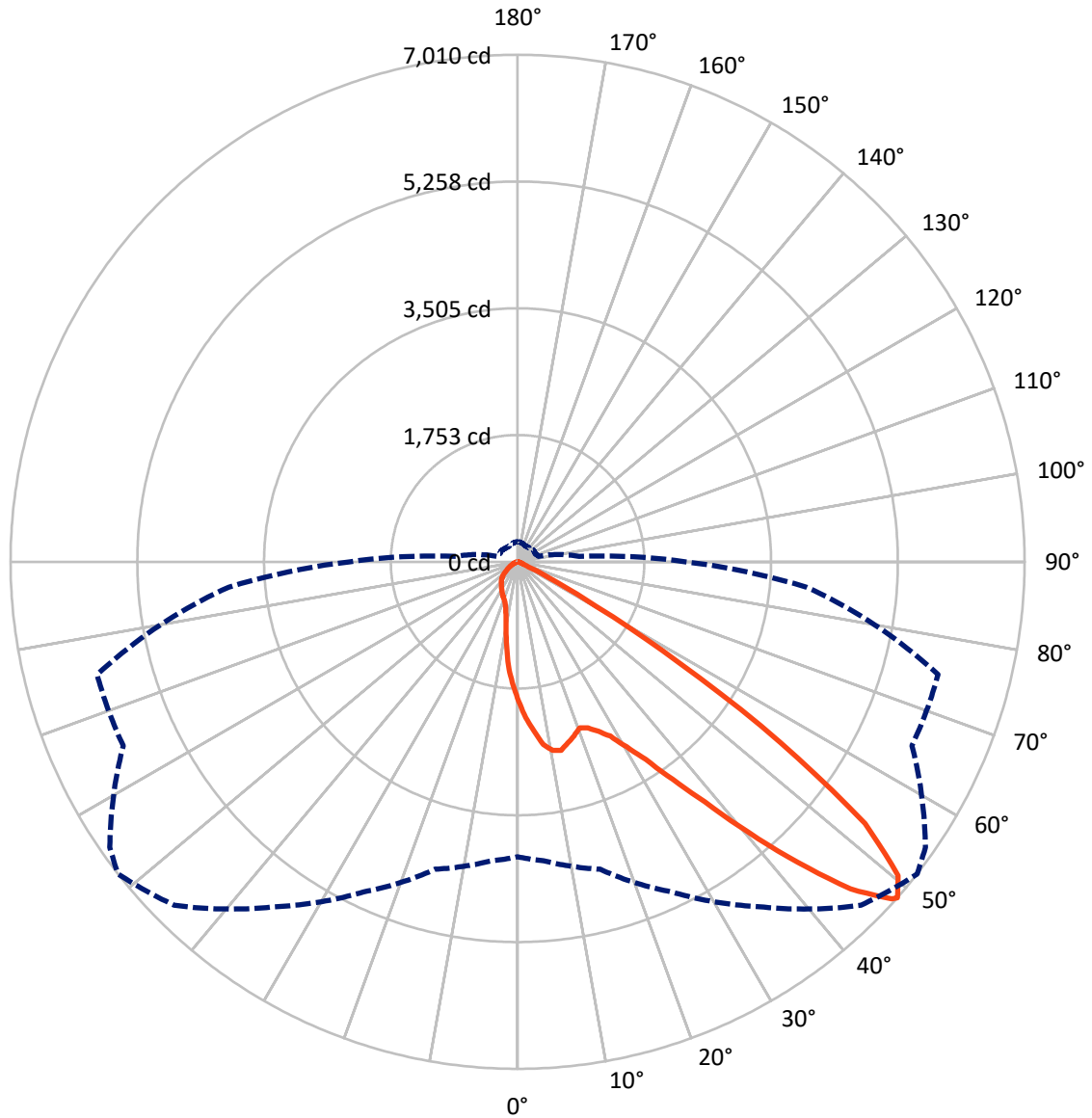
✕ Max cd
 - - - 1/2 Max cd



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 52-Deg Lateral - - - Horizontal Cone Through 48-Deg Vertical

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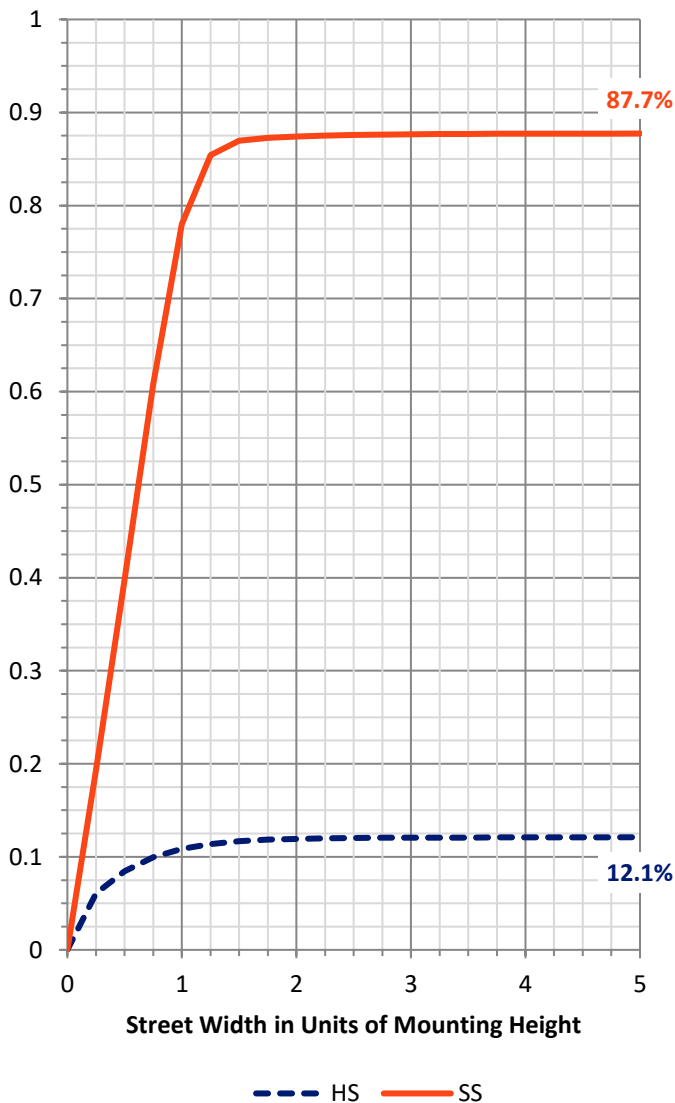
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	813.8	0.0	813.8
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	5869.9	0.0	5869.9
	% Fixture	87.8	0.0	87.8
Total	Lumens	6683.7	0.0	6683.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	176.7	2.6
10°-20°	461.7	6.9
20°-30°	788.3	11.8
30°-40°	1451.6	21.7
40°-50°	2254.4	33.7
50°-60°	1356.7	20.3
60°-70°	156.9	2.3
70°-80°	30.4	0.5
80°-90°	7.0	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°	6683.7	100.0
0°-180°	6683.7	100.0

Coefficient of Utilization

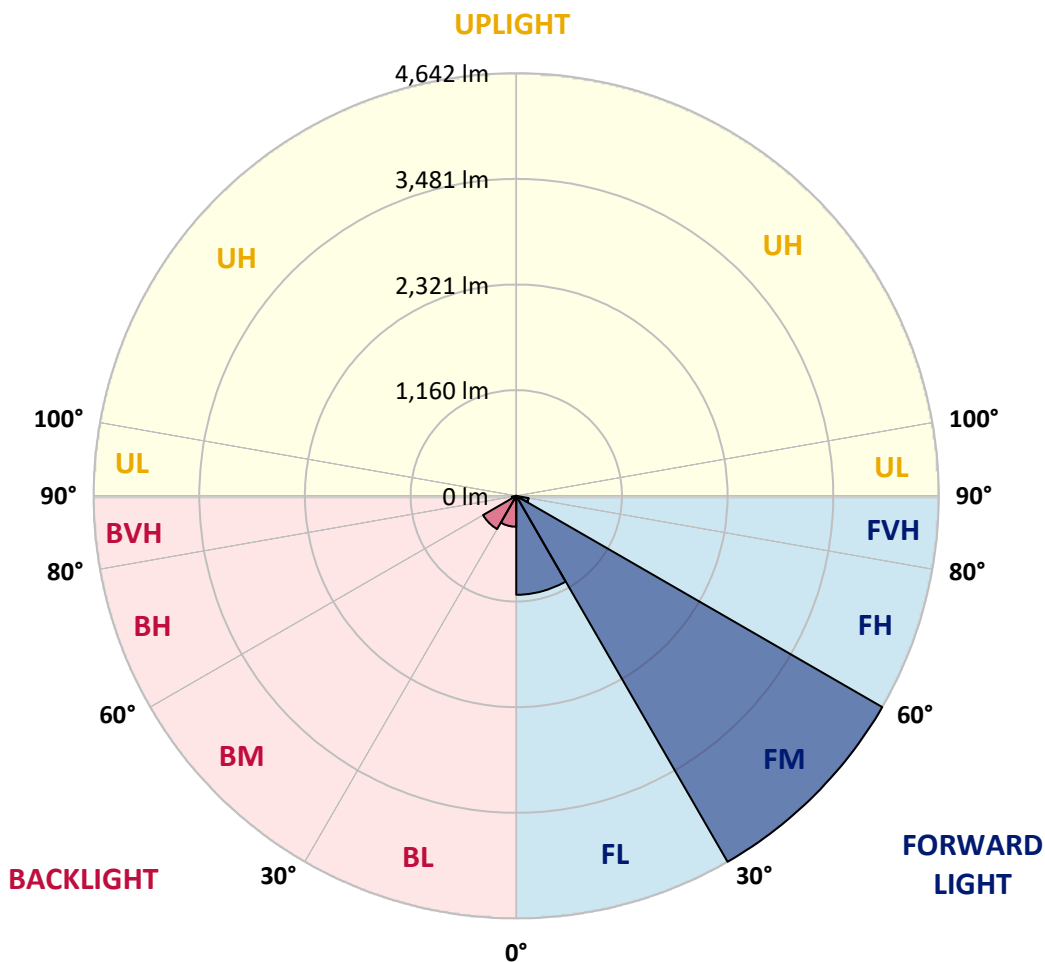


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1086.7	16.3			
FM (30°-60°)	4641.7	69.4			
FH (60°-80°)	138.2	2.1			G0/660
FVH (80°-90°)	3.3	0.0			G0/10
BL (0°-30°)	339.9	5.1	B1/500		
BM (30°-60°)	421.0	6.3	B1/1000		
BH (60°-80°)	49.1	0.7	B0/110		G0/110
BVH (80°-90°)	3.7	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°	1930.2	1930.2	1930.2	1930.2	1930.2	1930.2	1930.2	1930.2	1930.2	1930.2	1930.2
2.5°	2339.4	2285.7	2290.7	2255.6	2235.1	2202.0	2157.2	2148.4	2099.7	2033.5	1966.2
5°	2549.8	2537.2	2553.7	2503.0	2505.0	2450.4	2345.2	2347.1	2235.1	2126.9	2022.7
7.5°	2563.5	2534.3	2550.8	2595.6	2621.9	2612.2	2552.7	2501.1	2394.9	2236.1	2084.1
10°	2295.5	2351.0	2368.6	2442.6	2547.9	2658.9	2652.1	2655.1	2566.4	2358.9	2136.7
12.5°	2134.8	2097.7	2157.2	2202.0	2360.8	2576.1	2674.5	2695.9	2702.8	2477.7	2189.3
15°	2061.6	2061.6	2071.4	2084.1	2199.1	2397.8	2598.5	2660.9	2808.0	2633.6	2272.1
17.5°	2107.4	2105.5	2119.2	2092.9	2135.7	2288.7	2528.4	2599.5	2925.9	2786.5	2337.4
20°	2246.8	2253.6	2244.9	2168.8	2171.8	2286.8	2450.4	2562.4	3005.8	2919.1	2424.1
22.5°	2440.7	2444.6	2394.9	2312.0	2287.7	2344.2	2495.3	2581.0	3070.1	3077.9	2450.4
25°	2664.8	2649.2	2639.4	2522.5	2448.4	2497.2	2596.6	2646.3	3110.1	3214.3	2525.5
27.5°	2975.6	2944.4	2885.0	2780.7	2726.2	2657.0	2728.1	2810.0	3224.1	3405.3	2607.3
30°	3434.5	3407.2	3291.3	3156.8	3013.6	2945.4	2967.8	3012.6	3429.6	3626.5	2715.4
32.5°	4125.3	4067.8	3900.2	3644.0	3449.1	3261.0	3255.2	3302.9	3613.8	3932.4	2844.1
35°	4886.2	4868.7	4622.2	4358.2	3981.1	3690.7	3695.6	3721.0	3966.4	4333.8	3012.6
37.5°	5391.9	5488.4	5331.5	5048.0	4731.4	4316.3	4211.1	4219.8	4450.7	4809.3	3316.6
40°	5782.6	5700.8	5719.3	5653.0	5436.8	5154.2	4921.3	4875.5	5011.0	5335.4	3618.6
42.5°	5612.1	5616.0	5730.0	5886.9	5940.5	5920.0	5682.2	5595.6	5490.3	5766.1	3906.1
45°	5130.8	5231.1	5379.2	5794.3	6158.7	6500.7	6454.0	6309.7	5821.6	6107.1	4071.7
47.5°	4363.0	4359.1	4601.8	5141.5	5951.2	6752.0	6964.5	6863.2	6056.4	6069.0	4037.6
48°	4079.5	4149.7	4400.1	5035.3	5819.6	6715.1	7010.3	6882.6	6016.5	6018.4	4008.4
50°	3015.6	3002.9	3314.7	4094.2	5198.0	6309.7	6817.3	6916.7	6015.5	5762.2	3803.7
52.5°	1593.0	1647.6	1874.6	2574.2	3675.2	5163.9	6013.5	6168.5	5803.0	5343.2	3509.5
55°	677.1	611.9	786.3	1162.4	2067.5	3450.1	4411.7	4756.6	4906.7	4728.4	3070.1
57.5°	241.6	264.0	304.0	437.5	869.1	1888.2	2630.6	2898.6	3399.4	3469.6	2091.9
60°	155.0	157.9	170.5	200.7	326.4	727.8	1248.1	1461.5	1688.5	1743.0	976.2
62.5°	119.9	120.8	126.7	131.5	155.0	282.6	468.6	555.4	576.8	496.0	256.3
65°	100.4	101.3	103.3	103.3	110.1	132.5	163.7	180.2	175.4	173.4	145.2
67.5°	77.0	78.9	82.8	82.8	86.7	80.9	90.6	96.5	109.2	132.5	123.7
70°	60.4	61.4	64.3	66.2	66.2	58.5	65.3	71.1	79.9	98.4	97.4
72.5°	46.7	48.7	50.7	50.7	47.8	39.9	46.7	51.7	57.5	68.2	66.2
75°	36.0	36.0	37.0	30.2	23.4	20.4	28.3	34.1	42.9	44.8	37.0
77.5°	9.7	10.7	9.7	8.8	9.7	14.6	18.5	21.5	27.2	27.2	24.4
80°	0.0	0.9	2.9	5.9	9.7	13.6	16.6	18.5	21.5	23.4	22.4
82.5°	0.0	0.9	2.9	5.9	8.8	10.7	14.6	15.6	17.5	20.4	20.4
85°	0.0	0.9	2.0	3.9	5.9	6.8	6.8	5.9	5.9	4.9	3.9
87.5°	0.0	0.0	0.9	2.0	2.0	2.9	2.9	2.9	2.9	2.9	2.9
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°	1930.2	1930.2	1930.2	1930.2	1930.2	1930.2	1930.2	1930.2	1930.2	1930.2	1930.2
2.5°	1939.9	1909.7	1863.9	1791.8	1722.6	1677.8	1634.9	1587.1	1560.8	1559.0	1544.3
5°	1963.3	1895.1	1785.9	1662.2	1529.7	1415.7	1300.7	1225.7	1158.4	1121.4	1114.6
7.5°	1975.9	1887.3	1710.9	1503.4	1277.3	1091.3	962.6	868.1	831.1	803.8	802.8
10°	2002.2	1873.6	1598.9	1293.0	1013.3	825.3	736.6	693.7	673.2	665.5	653.8
12.5°	2021.7	1848.3	1483.9	1076.6	800.9	684.0	645.0	635.2	636.3	640.1	635.2
15°	2049.0	1825.9	1329.0	883.7	672.3	615.8	615.8	617.7	631.3	633.3	632.4
17.5°	2047.1	1782.0	1169.2	727.8	594.4	586.5	589.4	608.0	616.8	619.7	612.9
20°	2070.4	1741.2	1004.5	621.6	550.5	562.2	581.7	586.5	597.3	599.2	591.4
22.5°	2063.6	1638.8	851.6	537.8	517.3	539.8	559.3	565.1	562.2	556.3	555.4
25°	2051.0	1551.1	711.3	482.3	493.0	517.3	535.9	525.2	519.3	520.3	521.2
27.5°	2028.5	1440.0	595.3	443.3	459.9	496.0	494.9	491.1	496.9	492.0	496.9
30°	2024.7	1329.0	499.9	408.3	435.5	461.8	463.8	470.6	477.4	468.6	477.4
32.5°	2030.5	1207.2	431.6	386.8	420.9	421.9	443.3	450.1	445.3	425.8	427.8
35°	2075.3	1113.7	381.9	375.1	397.5	398.5	419.0	410.2	388.8	377.1	383.9
37.5°	2169.8	1035.7	358.5	364.4	366.4	379.1	380.0	362.5	364.4	363.4	367.3
40°	2290.7	976.2	342.0	354.6	352.7	361.5	326.4	336.1	344.9	347.8	349.8
42.5°	2373.4	933.4	331.3	339.0	335.2	319.5	300.1	309.8	316.6	327.4	329.3
45°	2410.5	899.3	318.6	311.8	311.8	283.5	275.8	277.7	293.2	305.0	303.0
47.5°	2350.1	866.2	296.2	275.8	282.6	259.2	250.4	250.4	267.0	281.6	278.7
48°	2326.7	852.5	297.1	267.9	272.8	255.3	246.5	244.5	263.1	276.7	276.7
50°	2210.7	801.9	271.9	246.5	236.8	234.8	228.9	230.9	242.6	255.3	255.3
52.5°	1984.7	692.7	230.0	211.4	193.9	205.6	208.5	204.6	210.5	222.1	221.2
55°	1656.4	532.0	184.2	175.4	161.8	174.4	180.2	175.4	169.5	178.3	178.3
57.5°	1061.0	286.4	147.1	149.1	135.5	148.1	153.0	141.3	130.5	137.4	136.4
60°	478.4	171.5	120.8	117.9	109.2	123.7	131.5	117.9	103.3	108.1	113.0
62.5°	179.3	121.8	91.6	89.7	87.7	101.3	105.2	94.5	79.9	82.8	83.8
65°	131.5	107.2	73.1	66.2	70.2	79.9	77.9	67.3	57.5	57.5	59.4
67.5°	112.0	93.6	59.4	51.7	51.7	52.6	48.7	42.9	39.9	41.9	43.8
70°	87.7	74.1	46.7	39.9	36.0	32.2	28.3	27.2	24.4	27.2	26.3
72.5°	56.5	49.7	36.0	30.2	27.2	22.4	18.5	17.5	14.6	13.6	13.6
75°	30.2	30.2	28.3	24.4	21.5	17.5	14.6	11.7	7.8	5.9	5.9
77.5°	21.5	23.4	25.4	23.4	19.5	14.6	11.7	7.8	3.9	2.0	2.0
80°	20.4	23.4	25.4	22.4	19.5	14.6	10.7	5.9	2.9	0.9	0.9
82.5°	18.5	21.5	23.4	20.4	17.5	12.7	9.7	5.9	2.9	0.9	0.9
85°	3.9	4.9	5.9	5.9	6.8	8.8	6.8	4.9	2.0	0.9	0.9
87.5°	2.9	2.9	2.9	2.9	2.9	2.9	2.0	2.0	0.9	0.9	0.9
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)