

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: P652214

Luminaire Tested: **GALN-SA2B-840-U-AFL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P652214
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-25)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2B-840-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7884.4 lumens
Efficiency: N/A
Efficacy: 96.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

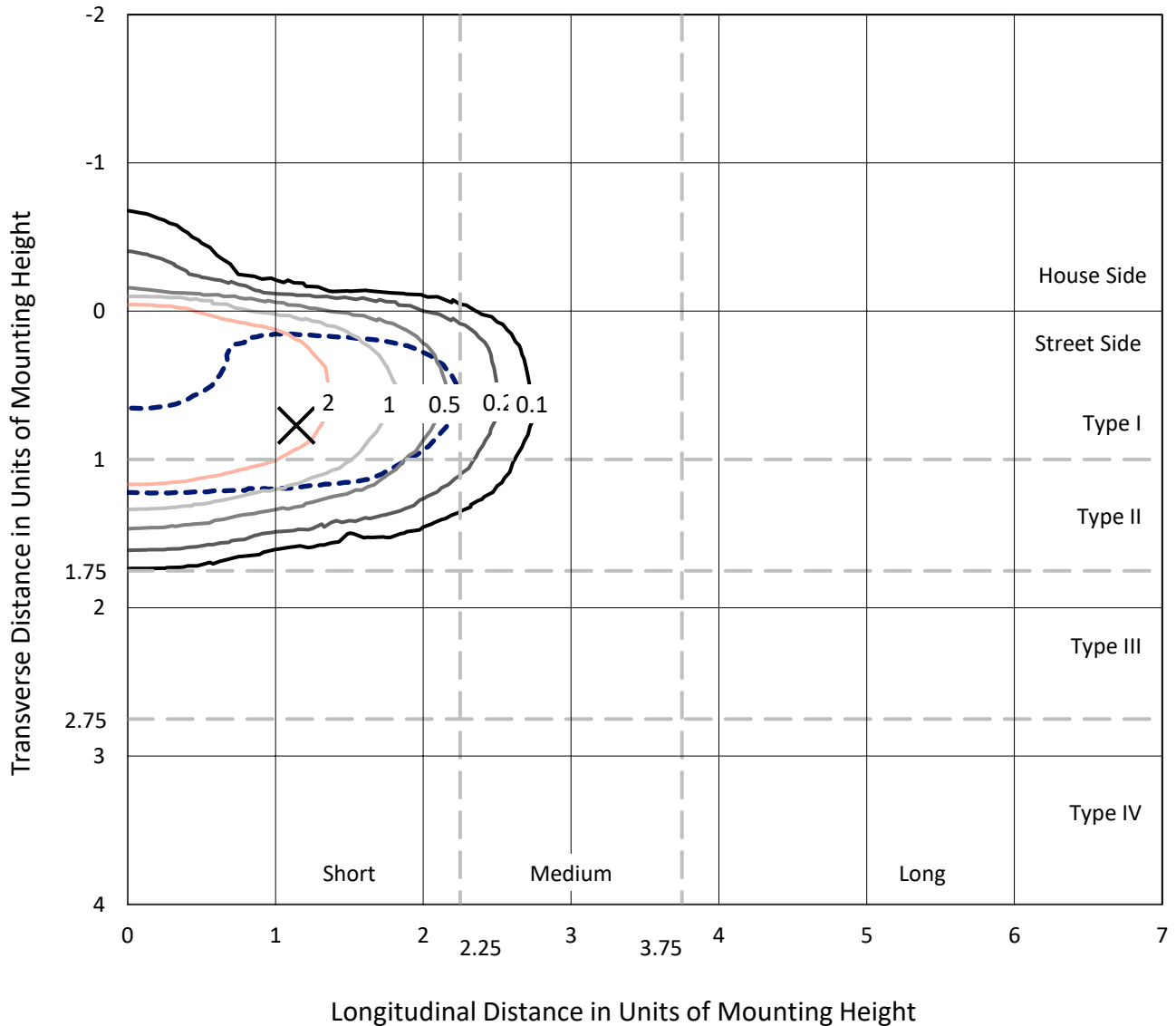
Input Watts (W): 82
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

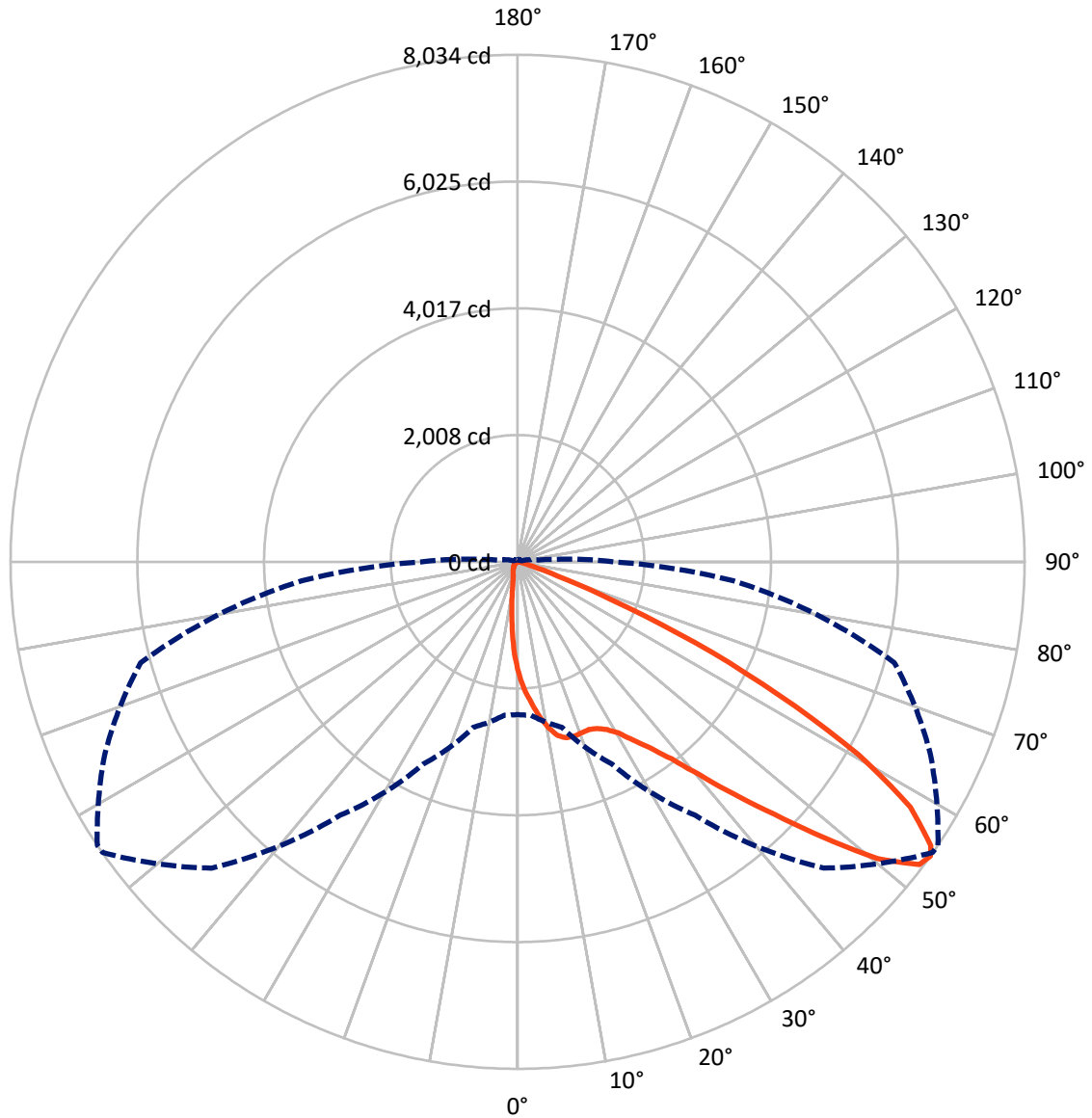
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 54-Deg Vertical

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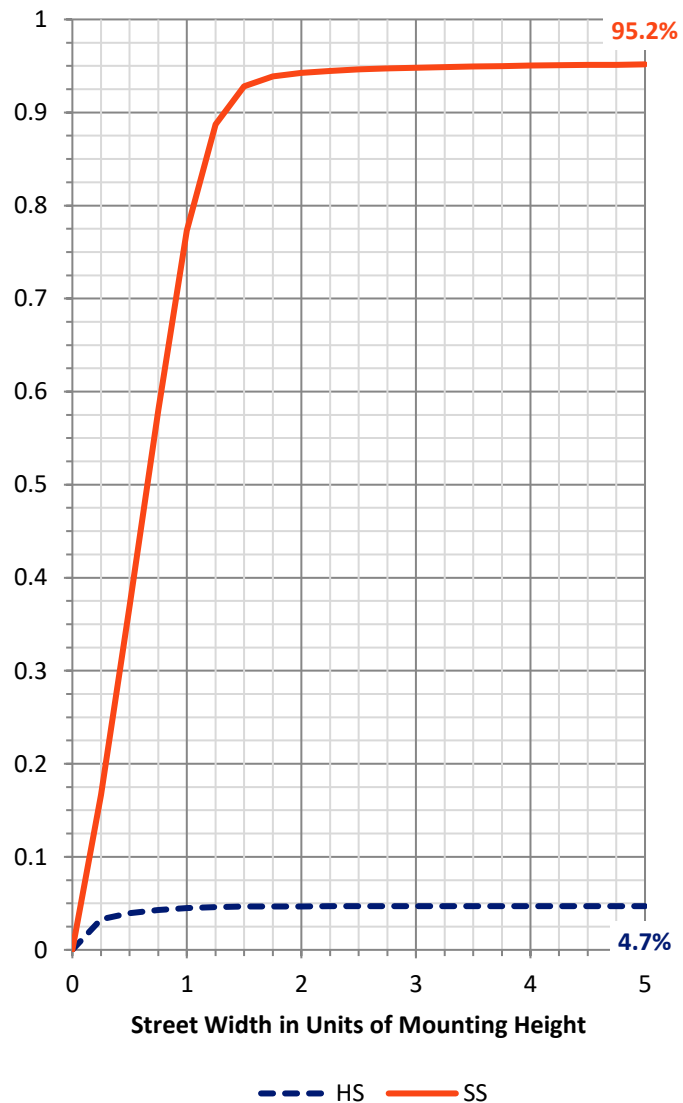
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	372.9	0.0	372.9
	% Fixture	4.7	0.0	4.7
Street Side	Lumens	7511.6	0.0	7511.6
	% Fixture	95.3	0.0	95.3
Total	Lumens	7884.4	0.0	7884.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	154.8	2.0
10°-20°	418.5	5.3
20°-30°	724.7	9.2
30°-40°	1251.0	15.9
40°-50°	2129.2	27.0
50°-60°	2107.1	26.7
60°-70°	961.7	12.2
70°-80°	123.5	1.6
80°-90°	13.9	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°	7884.4	100.0
0°-180°	7884.4	100.0

Coefficient of Utilization

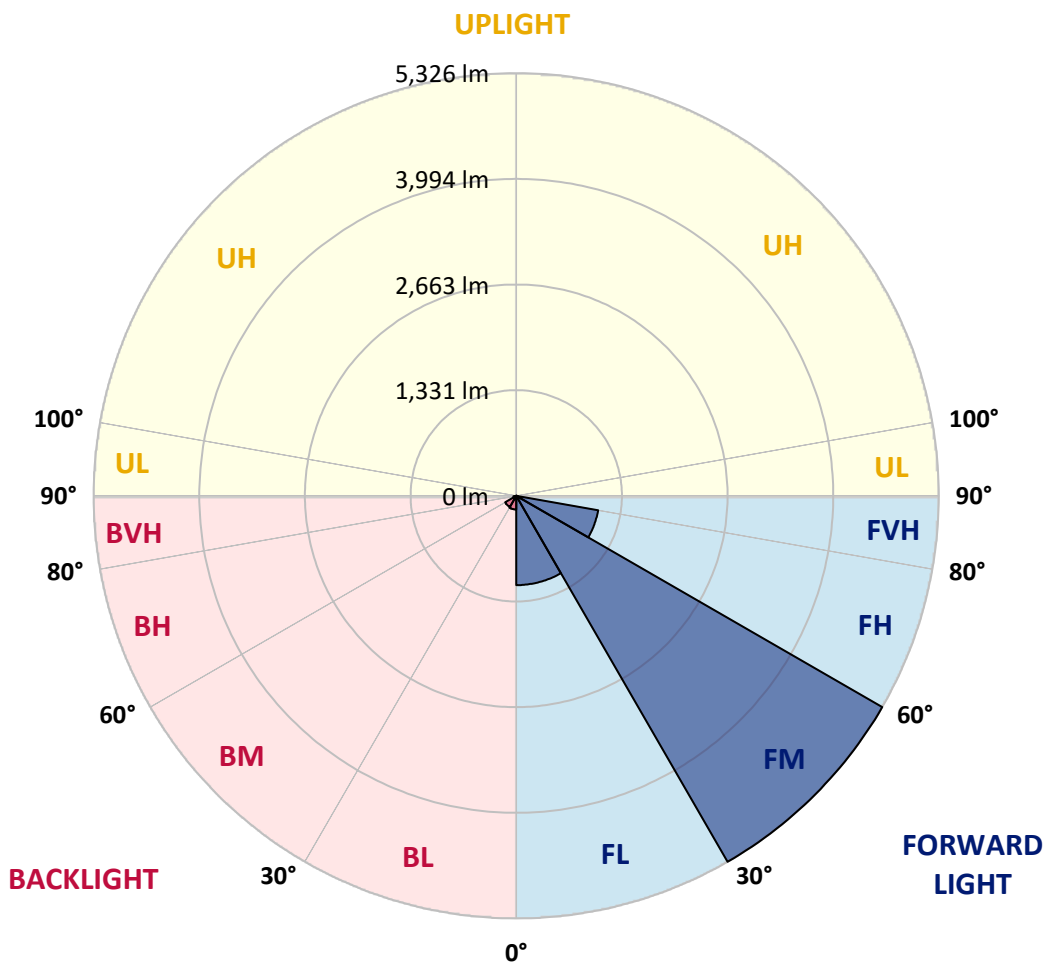


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1125.5	14.3			
FM (30°-60°)	5325.7	67.5			
FH (60°-80°)	1047.9	13.3			G1/1800
FVH (80°-90°)	12.4	0.2			G1/100
BL (0°-30°)	172.4	2.2	B1/500		
BM (30°-60°)	161.6	2.0	B0/220		
BH (60°-80°)	37.3	0.5	B0/110		G0/110
BVH (80°-90°)	1.5	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-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	1751.7	1751.7	1751.7	1751.7	1751.7	1751.7	1751.7	1751.7	1751.7	1751.7	1751.7
2.5°	2226.2	2210.7	2189.5	2173.0	2134.1	2078.3	2019.2	2019.2	1962.3	1883.1	1802.2
5°	2567.7	2557.6	2536.8	2494.2	2450.7	2372.5	2253.8	2233.1	2131.5	1987.9	1836.8
7.5°	2706.5	2711.3	2712.4	2701.2	2680.4	2603.3	2485.7	2471.4	2309.1	2116.6	1882.0
10°	2573.5	2596.9	2619.8	2666.1	2731.5	2750.2	2683.6	2668.7	2509.1	2246.9	1930.9
12.5°	2375.7	2388.4	2401.2	2474.1	2605.4	2756.0	2825.7	2825.2	2690.0	2376.8	1993.2
15°	2283.7	2294.8	2295.8	2328.3	2442.2	2661.3	2886.3	2894.3	2866.6	2536.8	2060.2
17.5°	2302.7	2311.8	2304.3	2312.3	2372.0	2557.1	2879.4	2906.0	3009.7	2690.5	2120.8
20°	2427.8	2445.3	2416.6	2394.2	2412.3	2529.4	2856.0	2893.2	3110.8	2840.6	2176.2
22.5°	2652.3	2661.8	2625.7	2564.5	2532.6	2587.3	2849.6	2886.3	3197.0	2963.4	2208.0
25°	2901.7	2898.5	2858.6	2790.0	2723.0	2704.4	2891.6	2924.6	3268.2	3074.1	2217.6
27.5°	3151.2	3160.8	3093.8	3008.7	2928.4	2879.9	2985.8	3010.3	3348.6	3200.2	2229.3
30°	3441.1	3425.7	3359.7	3262.4	3170.4	3102.8	3137.4	3144.3	3459.2	3367.2	2260.2
32.5°	3818.3	3775.8	3701.7	3531.5	3465.6	3351.2	3359.7	3368.3	3593.8	3532.6	2297.4
35°	4330.0	4327.9	4183.2	3953.9	3793.2	3651.2	3614.0	3620.9	3797.5	3778.4	2379.9
37.5°	4946.0	4954.5	4789.6	4558.7	4262.9	4037.5	3960.9	3961.9	4107.1	4117.8	2505.4
40°	5447.6	5469.9	5371.6	5215.7	4923.6	4571.0	4442.2	4430.6	4542.2	4529.0	2684.7
42.5°	5663.5	5684.3	5721.0	5775.3	5614.6	5323.7	5019.9	5035.9	5070.0	4976.9	2885.8
45°	5557.7	5590.7	5734.9	6070.0	6221.0	6123.2	5760.9	5705.1	5560.9	5463.6	3087.9
47.5°	5116.7	5197.0	5438.0	5996.1	6524.8	6855.7	6597.1	6523.2	6052.4	5818.9	3216.7
50°	4391.7	4396.5	4732.1	5445.5	6367.3	7317.9	7450.9	7395.6	6510.4	6018.4	3281.6
52.5°	3183.7	3288.5	3595.9	4422.1	5685.4	7247.7	7995.1	7972.2	6982.8	6120.5	3375.2
54°	2420.3	2440.6	2714.0	3533.7	4901.9	6862.1	8028.6	8033.9	7217.4	6182.2	3430.5
55°	1984.2	1935.7	2223.0	3010.3	4367.2	6521.0	7919.0	7944.5	7322.7	6214.1	3471.5
57.5°	940.5	941.0	1160.7	1587.8	2735.3	5063.6	7249.3	7339.7	7334.4	6268.9	3597.5
60°	476.1	479.3	527.6	733.0	1351.2	3366.1	5993.9	6209.4	6770.0	6276.9	3639.0
62.5°	333.0	329.3	321.3	352.7	568.7	1710.8	4462.4	4649.7	5751.9	5973.2	3507.1
65°	285.1	277.1	254.8	250.0	287.3	681.4	2779.4	3084.7	4391.7	5172.1	3131.5
67.5°	243.6	240.4	220.3	208.0	203.2	296.8	1434.1	1594.8	3001.8	3717.7	2372.0
70°	206.9	205.3	193.1	177.7	164.3	177.7	531.9	659.1	1672.9	2001.7	1119.2
72.5°	168.1	169.7	171.8	152.1	138.3	126.1	227.2	264.4	700.0	715.4	391.5
75°	147.3	145.7	145.7	132.5	115.5	93.6	125.0	134.6	214.4	199.0	91.0
77.5°	103.7	100.0	117.1	109.1	96.3	66.5	71.3	75.5	88.8	76.0	42.6
80°	71.8	71.8	75.0	97.9	86.7	48.4	43.6	46.8	52.6	45.2	24.5
82.5°	40.5	41.5	48.9	52.1	50.5	32.5	28.8	29.3	35.1	30.9	15.4
85°	4.8	8.0	28.2	27.7	20.8	14.4	16.0	16.5	21.8	19.2	9.1
87.5°	0.5	1.1	5.9	7.5	5.3	5.9	5.9	5.9	7.5	8.5	6.4
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°	1751.7	1751.7	1751.7	1751.7	1751.7	1751.7	1751.7	1751.7	1751.7	1751.7	1751.7
2.5°	1758.6	1718.2	1621.9	1510.2	1438.9	1323.0	1225.1	1154.3	1136.8	1102.7	1112.8
5°	1756.4	1672.4	1476.1	1268.6	1047.4	882.5	759.6	662.8	620.2	592.1	572.4
7.5°	1757.5	1626.2	1311.2	980.9	716.5	554.8	441.0	381.9	342.5	326.1	328.2
10°	1760.7	1574.0	1119.7	726.6	483.6	358.5	288.9	260.6	247.3	245.2	244.7
12.5°	1768.2	1517.1	936.8	539.4	338.3	260.6	234.1	224.5	220.3	220.3	218.7
15°	1776.2	1454.3	784.7	401.1	260.6	224.0	211.7	206.9	204.3	204.3	203.8
17.5°	1776.2	1382.0	642.6	311.2	224.5	205.9	196.3	189.9	187.8	187.8	187.2
20°	1765.0	1297.9	516.5	250.5	203.8	188.8	179.3	172.3	169.7	168.6	168.1
22.5°	1726.2	1185.7	411.2	215.5	186.7	173.9	161.7	153.7	151.6	150.5	151.0
25°	1657.0	1059.1	325.6	189.4	171.3	155.8	145.2	139.4	137.3	137.3	137.8
27.5°	1585.7	926.6	258.0	169.7	152.6	138.8	130.4	126.6	126.1	127.7	128.2
30°	1519.8	793.7	209.1	153.7	136.2	124.5	118.6	117.6	117.6	118.1	118.6
32.5°	1446.4	677.2	175.0	139.9	122.9	112.8	109.6	109.6	110.7	110.7	111.7
35°	1400.1	577.2	153.7	126.6	112.8	104.3	102.1	102.7	104.3	106.4	107.5
37.5°	1375.0	497.4	139.9	116.0	103.2	97.3	95.2	96.3	100.0	103.7	104.3
40°	1377.2	437.2	128.8	106.9	95.8	89.4	87.8	91.0	94.7	98.4	98.9
42.5°	1400.6	392.6	118.1	96.3	89.4	80.3	79.8	83.0	84.6	88.3	88.8
45°	1428.3	360.1	106.9	85.1	77.6	69.7	70.2	72.9	75.0	80.8	81.9
47.5°	1436.8	337.7	94.2	72.3	63.8	61.1	61.7	63.3	67.5	72.9	73.4
50°	1446.4	324.0	81.9	61.1	54.2	53.7	54.2	55.3	57.9	60.1	59.5
52.5°	1487.3	323.4	71.8	53.2	46.3	47.3	47.9	47.3	45.2	42.0	41.0
54°	1525.6	325.0	67.0	49.5	42.6	44.2	43.6	41.0	35.7	32.5	30.9
55°	1556.4	326.6	64.3	46.8	40.5	41.0	41.5	36.2	29.3	26.1	25.0
57.5°	1617.1	322.9	57.9	41.0	35.7	33.5	33.0	24.0	16.0	13.8	12.8
60°	1586.8	291.5	52.6	35.1	30.4	27.2	22.4	13.3	8.0	5.9	5.9
62.5°	1467.6	247.3	46.8	28.8	25.0	20.8	11.7	7.5	3.7	2.1	1.6
65°	1312.8	208.0	42.0	22.9	19.7	13.3	6.4	4.8	1.6	0.0	0.0
67.5°	976.1	154.2	35.7	18.1	14.9	8.5	4.3	2.7	0.5	0.0	0.0
70°	452.1	94.2	30.4	13.8	10.7	6.4	3.2	1.6	0.0	0.0	0.0
72.5°	129.8	59.0	25.0	10.1	7.5	5.3	2.7	1.1	0.5	0.0	0.0
75°	45.2	47.3	18.6	7.5	5.9	3.7	2.1	1.1	0.5	0.0	0.0
77.5°	27.2	38.3	11.7	6.4	4.8	3.2	2.1	1.1	0.5	0.5	0.0
80°	15.4	25.6	7.5	5.3	4.3	2.7	1.6	1.1	0.5	0.5	0.0
82.5°	8.5	12.2	5.9	4.8	3.7	2.7	1.6	1.1	0.5	0.5	0.5
85°	6.9	6.4	4.8	4.3	3.2	2.1	1.6	0.5	0.0	0.0	0.0
87.5°	5.3	4.3	4.3	4.3	3.2	2.1	1.6	0.5	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)