

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: P652298

Luminaire Tested: **GALN-SA3B-840-U-T2R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P652298
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-7)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3B-840-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11437.6 lumens
Efficiency: N/A
Efficacy: 94.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

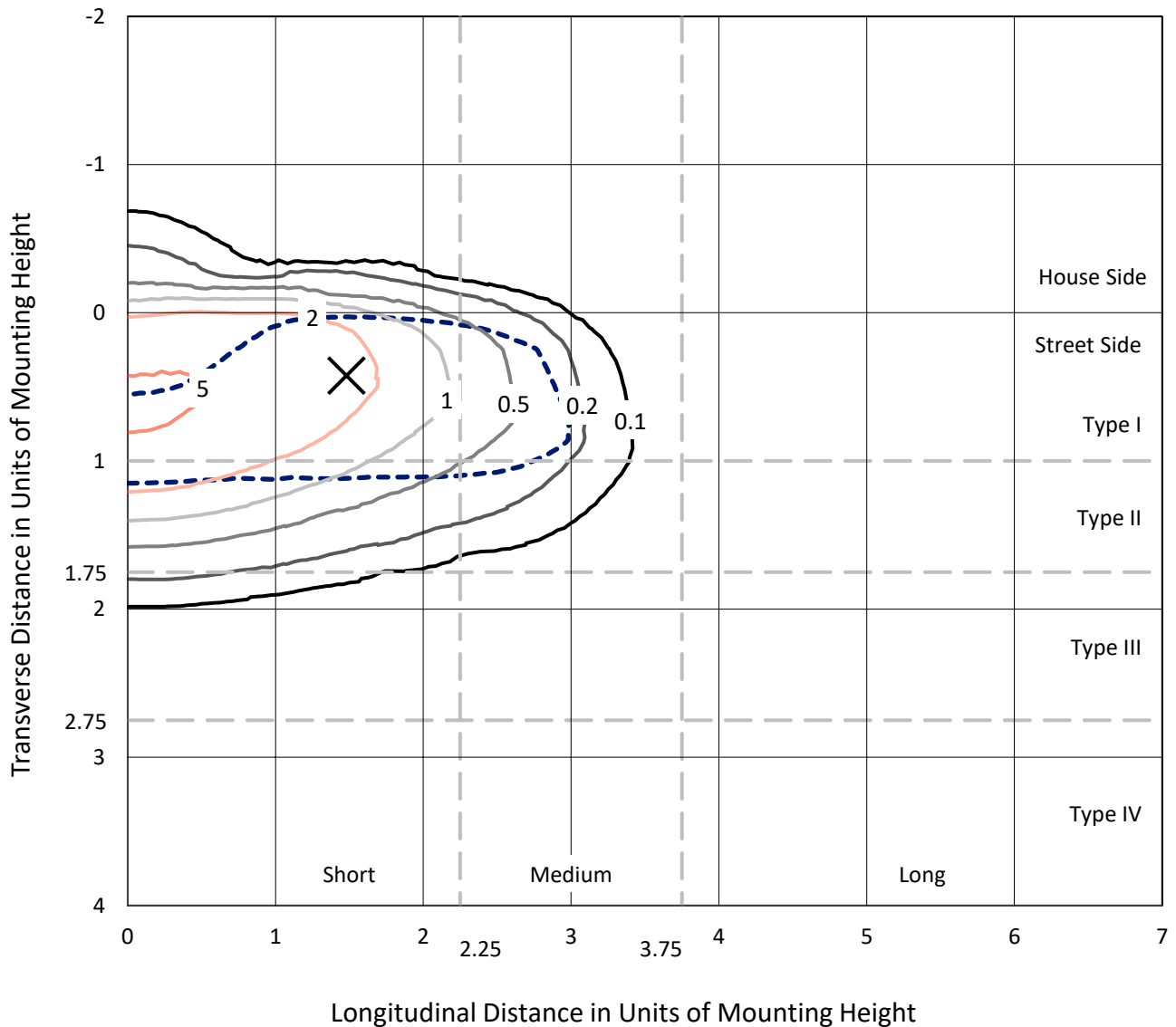
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

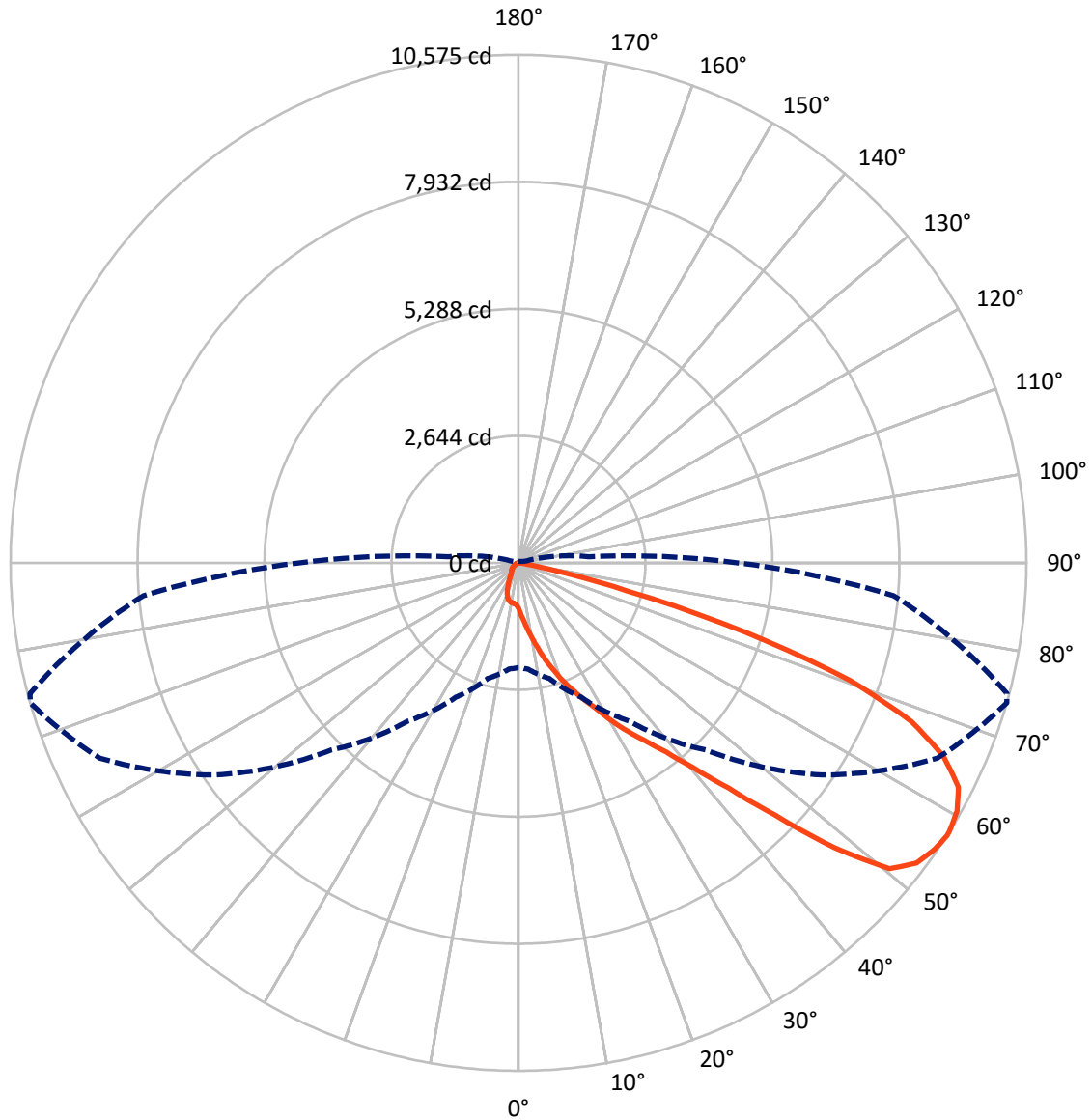
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 74-Deg Lateral - - - Horizontal Cone Through 57-Deg Vertical

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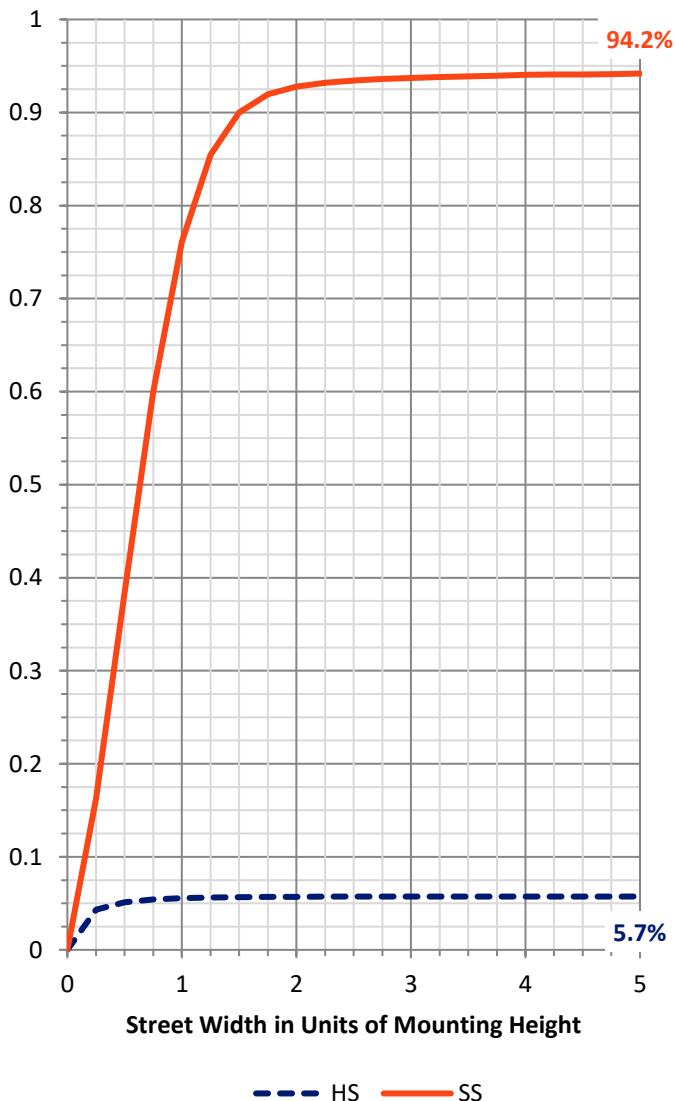
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	659.7	0.0	659.7
	% Fixture	5.8	0.0	5.8
Street Side	Lumens	10777.9	0.0	10777.9
	% Fixture	94.2	0.0	94.2
Total	Lumens	11437.6	0.0	11437.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	115.6	1.0
10°-20°	455.7	4.0
20°-30°	975.1	8.5
30°-40°	1792.3	15.7
40°-50°	2747.6	24.0
50°-60°	2906.6	25.4
60°-70°	1898.1	16.6
70°-80°	518.6	4.5
80°-90°	27.9	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°	11437.6	100.0
0°-180°	11437.6	100.0

Coefficient of Utilization



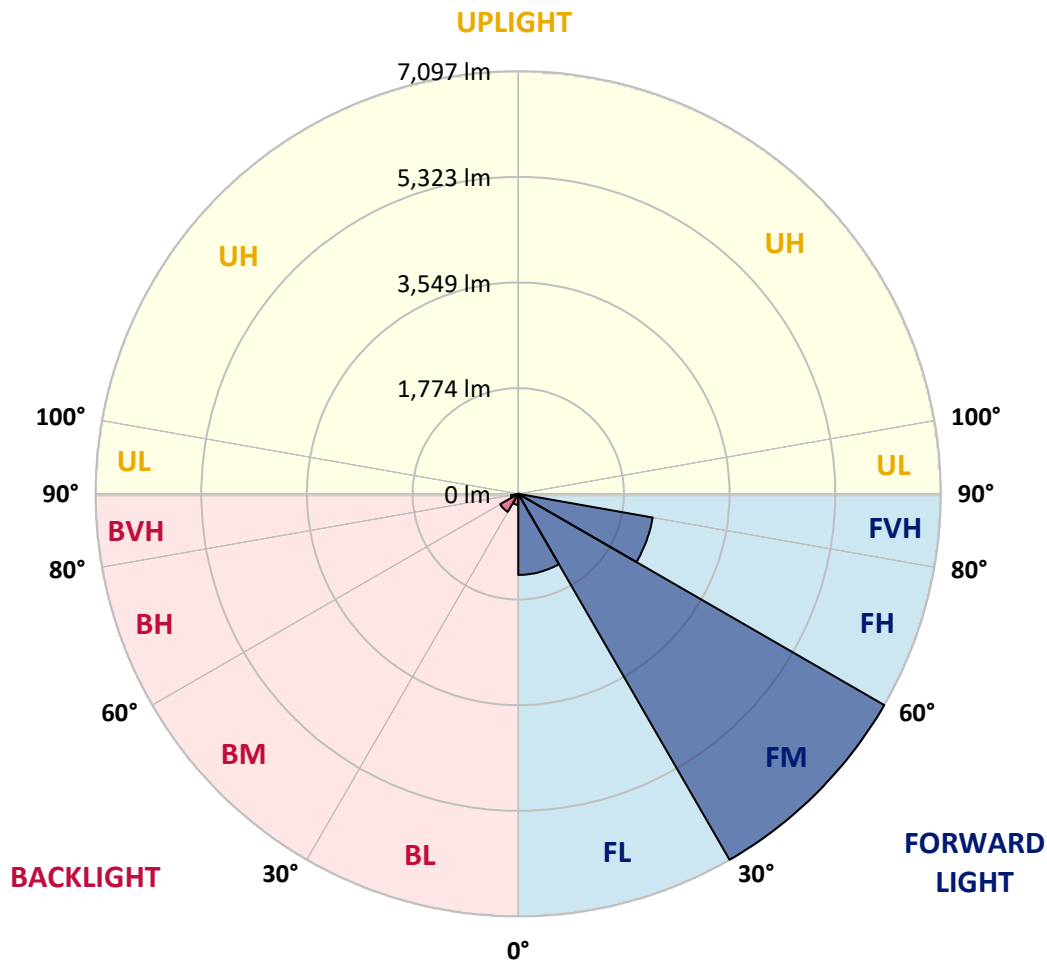
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1362.2	11.9			
FM (30°-60°)	7097.2	62.1			
FH (60°-80°)	2292.9	20.0			G2/5000
FVH (80°-90°)	25.6	0.2			G1/100
BL (0°-30°)	184.3	1.6	B1/500		
BM (30°-60°)	349.3	3.1	B1/1000		
BH (60°-80°)	123.9	1.1	B1/500		G1/500
BVH (80°-90°)	2.3	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-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	957.9	957.9	957.9	957.9	957.9	957.9	957.9	957.9	957.9	957.9	957.9
2.5°	1401.7	1389.1	1363.8	1355.1	1318.0	1260.3	1209.8	1141.9	1088.2	1082.6	1017.9
5°	1877.1	1848.7	1836.8	1780.0	1690.7	1607.0	1463.3	1354.3	1228.8	1219.3	1089.0
7.5°	2335.1	2295.6	2283.7	2230.1	2125.8	1993.9	1807.6	1609.3	1410.4	1392.2	1184.5
10°	2666.7	2672.3	2651.0	2615.4	2530.9	2396.7	2166.9	1896.0	1612.5	1589.7	1291.9
12.5°	2904.5	2903.6	2907.6	2906.8	2861.8	2759.9	2518.3	2206.4	1835.2	1790.2	1415.2
15°	3059.2	3061.6	3073.4	3114.5	3119.3	3056.1	2854.7	2503.3	2093.4	2037.4	1548.5
17.5°	3215.6	3232.1	3251.1	3289.8	3324.6	3299.3	3157.1	2812.8	2327.2	2285.3	1691.5
20°	3473.8	3496.7	3485.7	3509.3	3527.5	3529.8	3420.1	3098.7	2610.7	2540.4	1855.0
22.5°	3886.8	3886.0	3857.6	3814.9	3779.5	3777.9	3678.4	3392.5	2868.1	2800.2	2019.2
25°	4408.8	4411.1	4355.9	4234.3	4145.8	4037.6	3923.2	3649.9	3143.7	3060.0	2192.2
27.5°	5007.4	4992.3	4908.7	4741.2	4566.0	4381.2	4216.1	3949.2	3435.9	3366.4	2390.4
30°	5545.1	5539.6	5441.7	5237.2	5006.6	4821.0	4581.8	4324.3	3814.2	3728.9	2612.2
32.5°	6045.8	6053.7	5917.9	5706.3	5483.6	5269.5	5016.8	4682.8	4185.3	4064.5	2853.9
35°	6436.7	6444.6	6304.1	6127.9	5898.9	5721.2	5480.4	5065.0	4551.7	4449.9	3131.9
37.5°	6645.2	6655.4	6574.1	6441.5	6298.5	6209.3	5985.0	5557.0	4997.1	4935.5	3460.4
40°	6684.7	6696.5	6661.0	6625.4	6617.5	6681.5	6616.0	6136.6	5614.6	5518.3	3950.0
42.5°	6566.2	6582.0	6597.8	6676.8	6837.8	7072.4	7300.6	6923.1	6409.8	6280.3	4548.5
45°	6255.1	6253.5	6315.9	6520.4	6881.3	7382.0	8016.1	7907.8	7493.3	7339.3	5394.3
47.5°	5722.8	5714.9	5850.0	6141.3	6703.6	7438.8	8599.6	9103.5	8876.0	8733.9	6303.2
50°	4911.9	4950.5	5162.9	5569.6	6262.2	7266.7	8779.7	9887.6	10010.8	9860.0	7037.7
52.5°	3961.9	3960.3	4293.5	4845.5	5608.3	6887.6	8654.1	10029.8	10379.5	10264.3	7399.3
55°	2932.1	2952.6	3299.3	3856.0	4759.4	6195.8	8244.2	9883.7	10520.2	10438.8	7637.8
57°	2181.1	2217.5	2495.4	3084.5	4020.2	5511.2	7698.6	9622.3	10575.4	10531.2	7836.0
57.5°	2035.8	2037.4	2308.2	2843.7	3803.9	5248.3	7542.3	9513.3	10573.8	10549.3	7868.4
60°	1253.3	1292.7	1479.8	1922.1	2784.4	4096.1	6494.4	8887.1	10491.7	10527.2	8006.6
62.5°	750.2	766.7	888.4	1158.5	1794.9	2989.8	5314.5	8085.5	10277.7	10385.9	7997.1
65°	482.5	486.4	541.7	701.2	1122.1	2020.8	4095.2	7026.6	9724.1	9923.1	7684.4
67.5°	372.7	379.0	401.2	460.4	650.7	1258.7	2896.6	5896.6	8828.6	9085.3	6926.3
70°	330.8	334.0	342.0	360.9	430.3	710.7	1802.1	4606.2	7321.2	7393.8	5420.4
72.5°	270.0	278.8	303.3	309.6	341.1	443.8	1002.9	3091.6	4918.9	4937.1	3032.4
75°	209.2	210.8	247.2	265.3	287.5	305.6	447.7	1558.8	2362.7	2236.4	1168.7
77.5°	156.3	163.5	180.1	202.9	234.6	218.7	200.6	587.5	733.6	720.1	339.6
80°	100.3	104.2	125.6	152.4	182.4	143.0	112.9	172.2	161.1	165.8	81.3
82.5°	50.5	51.3	80.6	124.0	116.1	71.8	71.1	70.3	60.0	59.2	37.9
85°	5.6	11.9	52.1	71.1	52.1	23.7	33.1	32.4	31.6	32.4	22.1
87.5°	0.8	0.8	8.7	10.3	7.1	7.9	9.5	10.3	12.6	11.9	9.5
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°	957.9	957.9	957.9	957.9	957.9	957.9	957.9	957.9	957.9	957.9	957.9
2.5°	986.3	954.7	896.3	840.2	798.4	771.5	736.8	724.1	705.9	703.6	694.9
5°	1029.0	968.9	867.1	786.5	721.7	672.8	630.2	594.7	566.2	559.9	563.0
7.5°	1089.8	1000.5	858.4	748.7	658.6	574.9	507.0	465.2	435.1	424.0	425.6
10°	1158.5	1042.4	856.8	708.4	571.0	468.3	394.1	356.9	339.6	333.2	326.1
12.5°	1239.8	1090.5	852.9	646.0	474.6	373.5	320.6	298.5	281.9	277.2	277.2
15°	1331.4	1141.9	833.9	568.6	385.3	308.7	273.2	255.8	250.4	245.6	245.6
17.5°	1426.9	1192.5	794.4	473.0	319.8	264.6	242.5	232.2	224.3	218.7	218.7
20°	1535.9	1242.2	731.2	388.5	270.0	236.2	218.7	206.9	200.6	195.9	194.3
22.5°	1639.4	1282.4	650.7	319.0	235.3	212.4	196.6	184.0	177.7	175.3	175.3
25°	1746.8	1306.9	553.5	263.7	214.8	192.7	175.3	165.0	159.5	157.9	157.2
27.5°	1851.0	1321.1	468.3	230.6	195.9	174.5	157.9	150.0	144.5	143.0	143.7
30°	1977.4	1323.5	385.3	206.9	179.2	157.2	142.1	135.1	131.9	130.3	129.5
32.5°	2105.3	1320.4	323.8	192.7	163.5	142.1	129.5	124.0	121.6	119.3	119.3
35°	2249.0	1303.8	275.6	178.5	148.4	129.5	118.4	113.7	110.6	108.2	107.4
37.5°	2427.5	1295.1	247.9	162.6	135.1	117.7	107.4	102.7	100.3	97.1	96.4
40°	2708.6	1333.7	239.3	148.4	121.6	106.6	97.1	91.6	88.5	85.3	84.5
42.5°	3059.2	1401.7	225.1	134.2	109.8	96.4	86.9	80.6	75.0	71.1	69.5
45°	3513.3	1490.9	202.9	119.3	99.5	85.3	76.6	68.7	61.6	58.4	57.6
47.5°	3989.5	1577.0	183.2	107.4	88.5	75.8	66.4	57.6	51.3	48.9	48.2
50°	4281.6	1594.4	170.6	93.9	77.4	65.5	56.1	48.2	44.2	41.9	41.9
52.5°	4415.1	1566.7	153.2	82.2	67.1	57.6	48.2	41.9	39.4	37.9	37.1
55°	4508.3	1524.1	130.3	71.1	57.6	48.9	42.6	37.9	34.7	33.1	32.4
57°	4562.8	1466.5	112.9	62.4	49.8	42.6	37.9	34.0	30.8	27.7	27.7
57.5°	4565.1	1444.3	108.2	61.6	47.3	41.0	37.1	33.1	29.2	26.1	25.2
60°	4494.9	1292.7	86.9	52.1	37.9	34.7	30.8	26.1	20.5	17.4	16.6
62.5°	4269.0	1100.0	71.8	44.2	30.8	26.8	22.1	19.8	14.2	10.3	10.3
65°	3927.0	892.3	61.6	35.6	25.2	19.8	15.0	14.2	8.7	4.7	4.0
67.5°	3432.7	694.9	52.1	29.2	21.4	14.2	10.3	9.5	4.7	1.6	0.0
70°	2615.4	473.8	43.4	23.7	15.8	10.3	7.1	5.6	3.2	0.8	0.0
72.5°	1507.5	260.6	36.3	18.2	11.9	7.9	5.6	3.2	3.2	0.0	0.0
75°	538.6	112.1	27.7	13.5	9.5	6.3	4.0	1.6	2.4	0.8	0.0
77.5°	171.4	60.0	18.2	10.3	7.9	4.7	3.2	1.6	1.6	0.8	0.0
80°	50.5	31.6	11.0	8.7	5.6	4.0	2.4	0.8	1.6	0.8	0.0
82.5°	27.7	15.8	8.7	6.3	5.6	3.2	2.4	0.8	0.8	0.8	0.0
85°	14.2	9.5	7.1	6.3	5.6	3.2	2.4	0.8	0.0	0.8	0.8
87.5°	7.9	7.1	7.1	6.3	5.6	4.0	2.4	0.8	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)