

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: P647953

Luminaire Tested: **GALN-SA5A-835-U-T2R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P647953
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-SA5A-835-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3500K, 615mA 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: 14357.1 lumens
Efficiency: N/A
Efficacy: 93.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

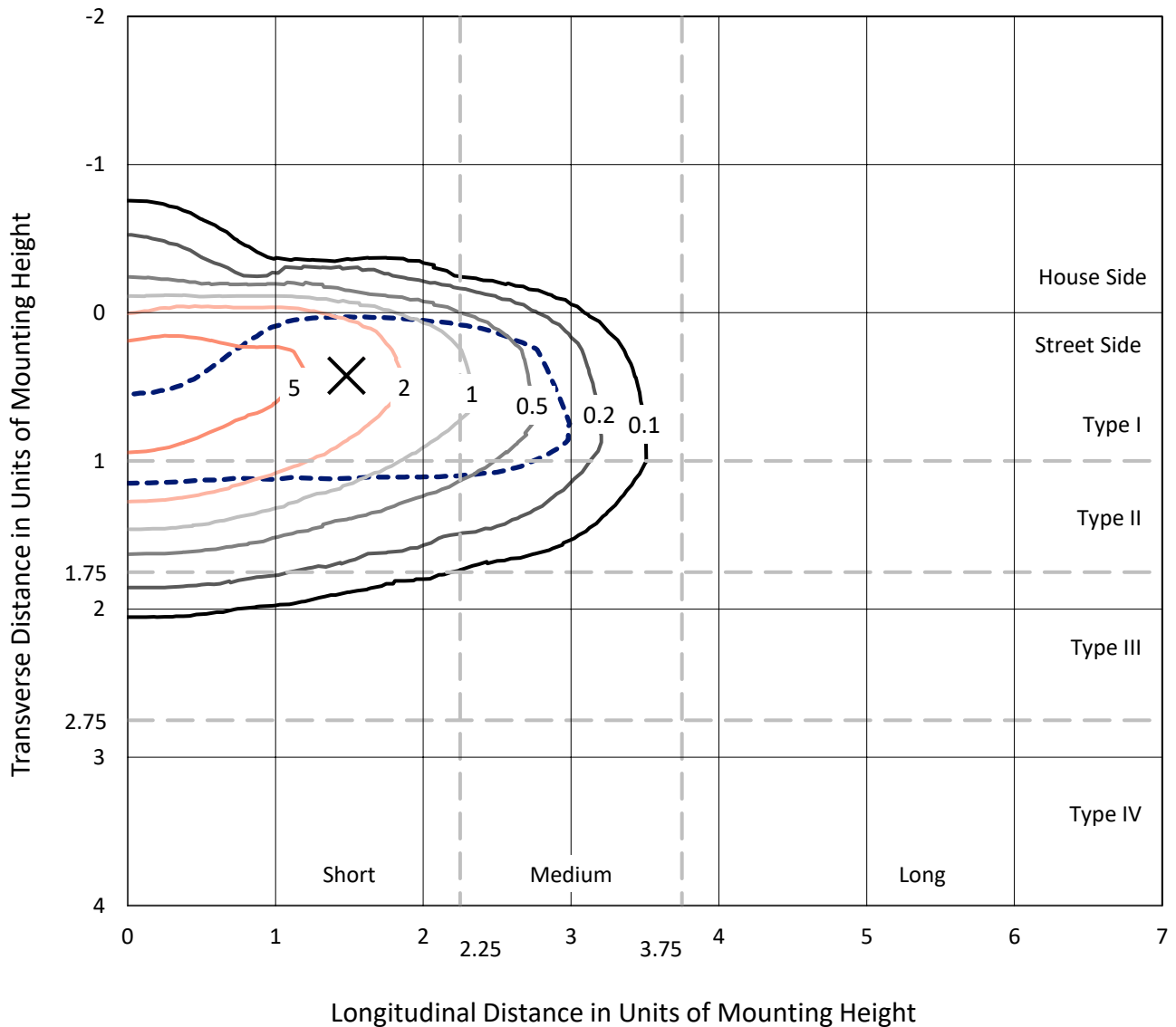
Input Watts (W): 154
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

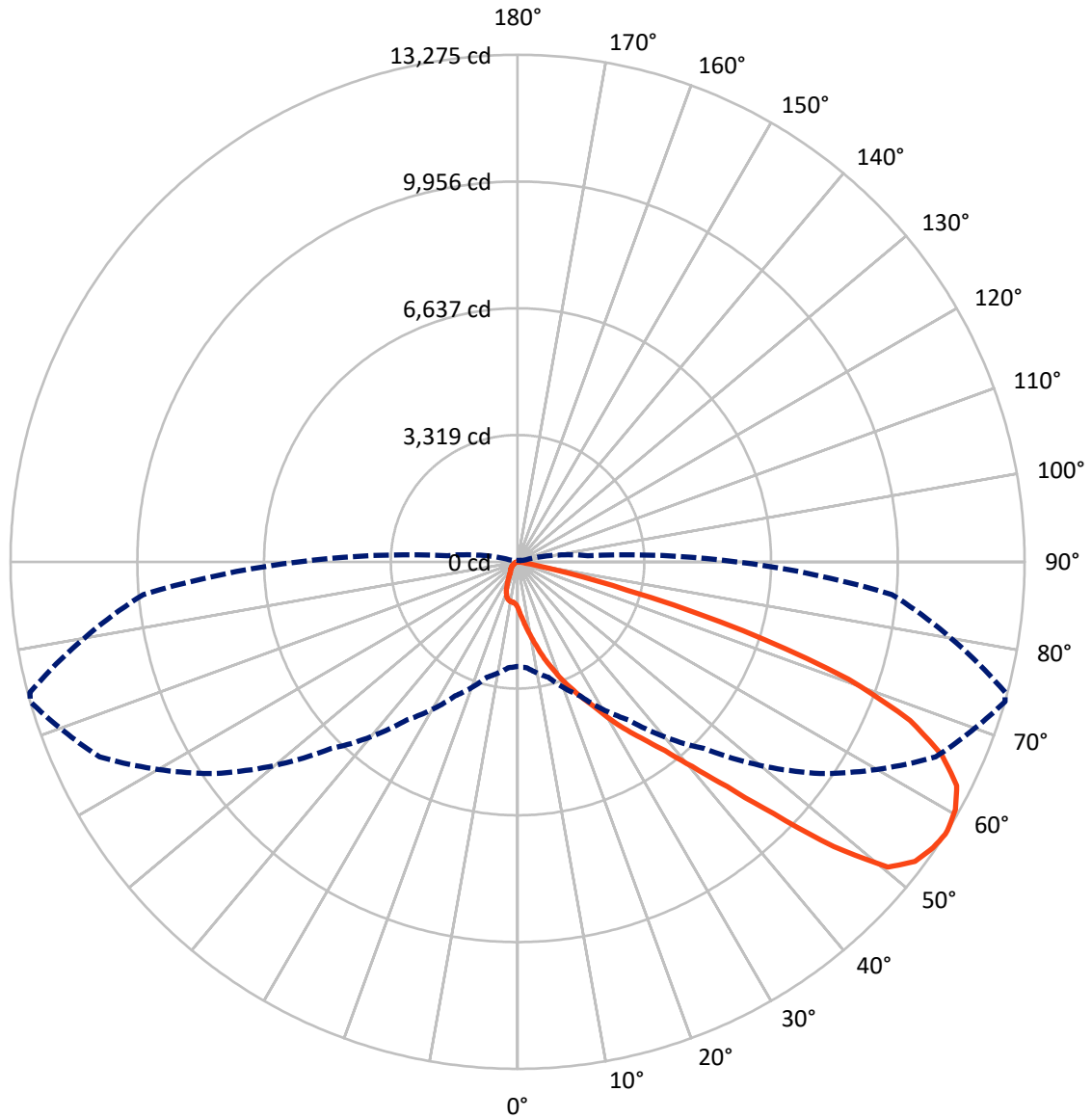
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.3 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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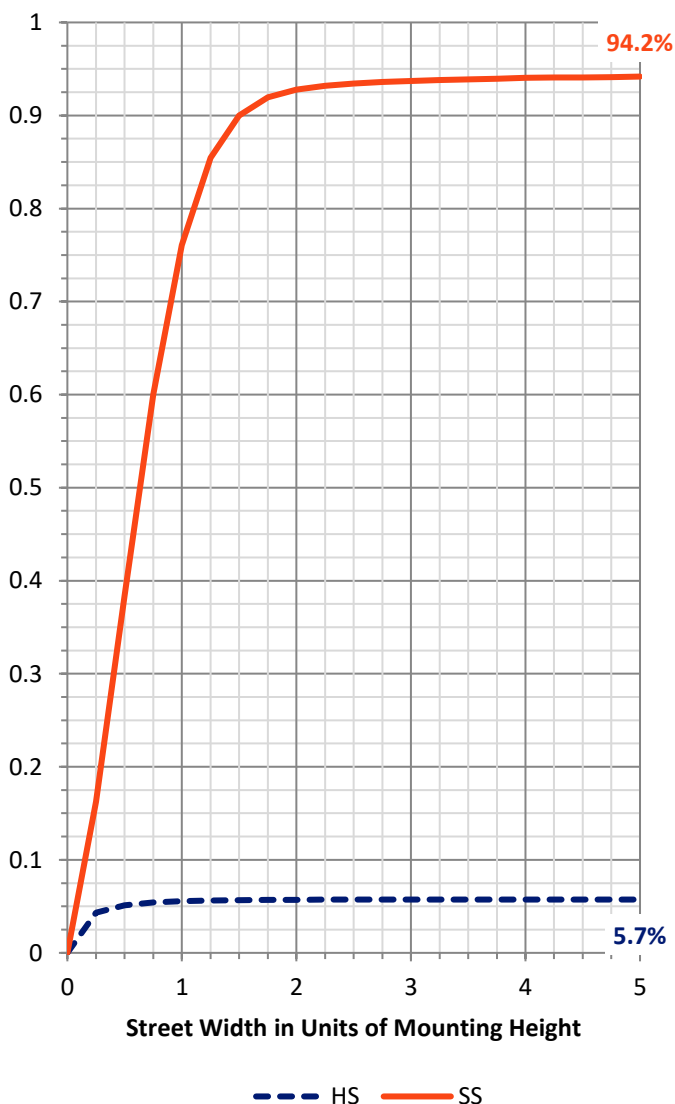
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	828.1	0.0	828.1
	% Fixture	5.8	0.0	5.8
Street Side	Lumens	13529.0	0.0	13529.0
	% Fixture	94.2	0.0	94.2
Total	Lumens	14357.1	0.0	14357.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	145.1	1.0
10°-20°	572.0	4.0
20°-30°	1224.0	8.5
30°-40°	2249.8	15.7
40°-50°	3448.9	24.0
50°-60°	3648.5	25.4
60°-70°	2382.6	16.6
70°-80°	651.0	4.5
80°-90°	35.1	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°	14357.1	100.0
0°-180°	14357.1	100.0

Coefficient of Utilization

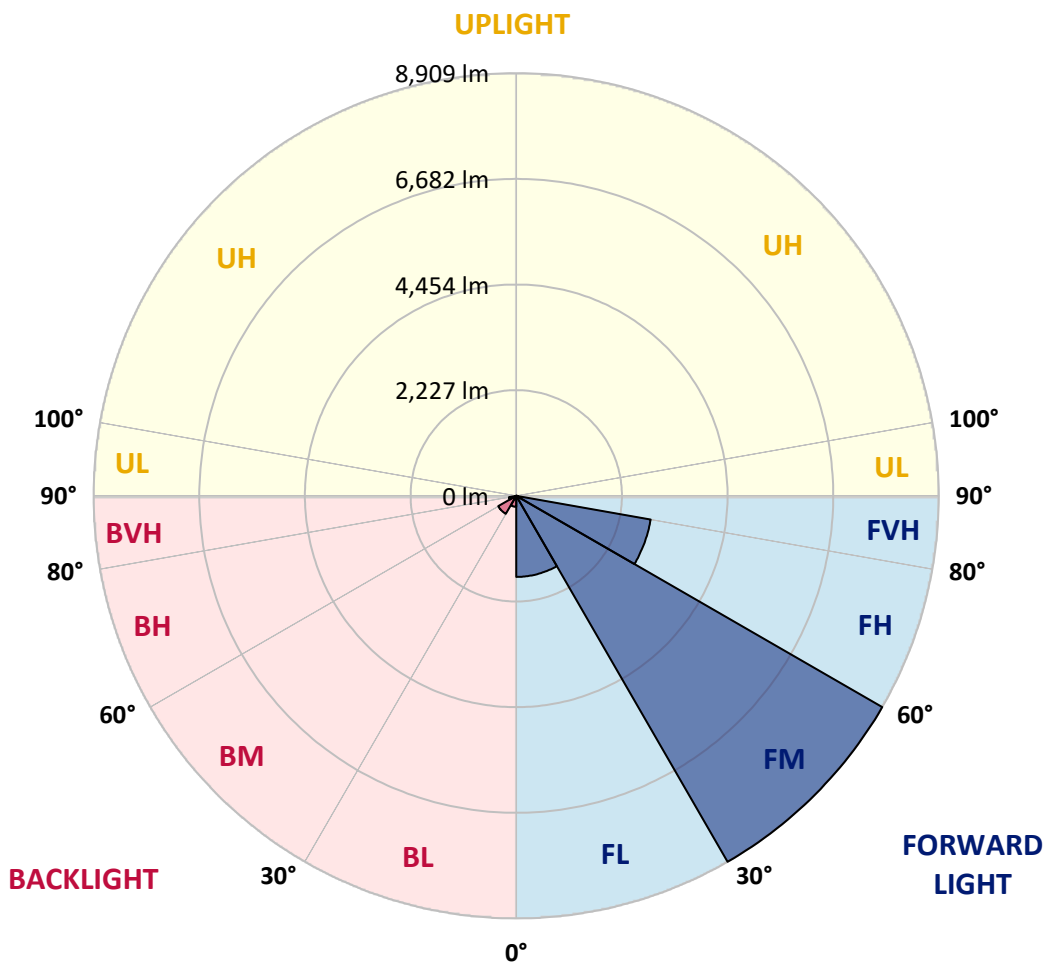


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1709.9	11.9			
FM (30°-60°)	8908.8	62.1			
FH (60°-80°)	2878.1	20.0			G2/5000
FVH (80°-90°)	32.2	0.2			G1/100
BL (0°-30°)	231.3	1.6	B1/500		
BM (30°-60°)	438.4	3.1	B1/1000		
BH (60°-80°)	155.5	1.1	B1/500		G1/500
BVH (80°-90°)	2.9	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°	1202.4	1202.4	1202.4	1202.4	1202.4	1202.4	1202.4	1202.4	1202.4	1202.4	1202.4
2.5°	1759.5	1743.6	1711.9	1701.0	1654.4	1582.1	1518.6	1433.4	1365.9	1359.0	1277.7
5°	2356.2	2320.5	2305.6	2234.3	2122.2	2017.2	1836.8	1700.0	1542.4	1530.5	1367.0
7.5°	2931.2	2881.6	2866.7	2799.3	2668.5	2502.9	2269.0	2020.1	1770.4	1747.6	1486.8
10°	3347.5	3354.4	3327.6	3283.0	3176.9	3008.4	2720.0	2380.0	2024.1	1995.4	1621.7
12.5°	3645.8	3644.9	3649.8	3648.8	3592.3	3464.4	3161.1	2769.5	2303.7	2247.1	1776.3
15°	3840.1	3843.0	3857.9	3909.5	3915.5	3836.2	3583.4	3142.3	2627.8	2557.4	1943.9
17.5°	4036.4	4057.2	4081.0	4129.5	4173.2	4141.4	3963.0	3530.9	2921.2	2868.7	2123.3
20°	4360.5	4389.3	4375.4	4405.2	4427.9	4430.9	4293.1	3889.6	3277.1	3188.8	2328.5
22.5°	4879.0	4877.9	4842.2	4788.7	4744.1	4742.2	4617.3	4258.4	3600.2	3515.0	2534.6
25°	5534.2	5537.1	5467.8	5315.1	5204.1	5068.3	4924.5	4581.6	3946.2	3841.1	2751.7
27.5°	6285.5	6266.7	6161.6	5951.5	5731.4	5499.5	5292.3	4957.3	4312.9	4225.7	3000.5
30°	6960.6	6953.6	6830.7	6574.0	6284.5	6051.6	5751.2	5428.1	4787.7	4680.7	3279.0
32.5°	7589.0	7598.9	7428.4	7162.8	6883.3	6614.6	6297.4	5878.1	5253.6	5101.9	3582.4
35°	8079.7	8089.6	7913.2	7692.1	7404.7	7181.6	6879.3	6357.9	5713.6	5585.7	3931.3
37.5°	8341.4	8354.3	8252.2	8085.6	7906.2	7794.2	7512.7	6975.4	6272.6	6195.3	4343.7
40°	8390.9	8405.8	8361.2	8316.6	8306.7	8386.9	8304.7	7703.0	7047.8	6926.9	4958.3
42.5°	8242.2	8262.1	8281.9	8381.0	8583.2	8877.7	9164.2	8690.3	8046.0	7883.4	5709.6
45°	7851.7	7849.7	7928.0	8184.8	8637.7	9266.2	10062.2	9926.4	9405.9	9212.7	6771.2
47.5°	7183.6	7173.7	7343.2	7708.9	8414.7	9337.6	10794.8	11427.1	11141.7	10963.3	7912.1
50°	6165.6	6214.1	6480.8	6991.3	7860.6	9121.5	11020.7	12411.5	12566.1	12376.7	8834.0
52.5°	4973.1	4971.1	5389.5	6082.3	7039.9	8645.7	10863.1	12589.9	13029.0	12884.3	9288.0
55°	3680.5	3706.3	4141.4	4840.3	5974.3	7777.4	10348.7	12406.5	13205.5	13103.3	9587.4
57°	2737.8	2783.4	3132.4	3871.9	5046.4	6918.0	9663.7	12078.4	13274.8	13219.3	9836.2
57.5°	2555.5	2557.4	2897.4	3569.5	4774.9	6587.8	9467.4	11941.6	13272.9	13242.1	9876.8
60°	1573.1	1622.7	1857.6	2412.7	3495.2	5141.6	8152.0	11155.6	13169.7	13214.4	10050.3
62.5°	941.7	962.5	1115.1	1454.2	2253.1	3752.8	6671.1	10149.4	12901.1	13037.0	10038.4
65°	605.7	610.6	680.0	880.2	1408.5	2536.6	5140.6	8820.2	12206.3	12456.0	9645.9
67.5°	467.8	475.8	503.5	577.9	816.8	1580.0	3635.9	7401.7	11082.2	11404.3	8694.3
70°	415.3	419.3	429.2	453.0	540.3	892.2	2262.0	5782.0	9189.9	9281.1	6804.0
72.5°	339.0	349.9	380.6	388.6	428.2	557.1	1258.9	3880.8	6174.5	6197.3	3806.4
75°	262.7	264.7	310.2	333.1	360.8	383.6	562.0	1956.7	2965.8	2807.2	1467.0
77.5°	196.3	205.2	226.0	254.8	294.4	274.6	251.8	737.5	920.9	904.1	426.3
80°	125.9	130.8	157.6	191.3	228.9	179.4	141.7	216.1	202.2	208.2	102.1
82.5°	63.4	64.4	101.1	155.7	145.7	90.2	89.2	88.2	75.3	74.3	47.6
85°	7.0	14.9	65.5	89.2	65.5	29.8	41.7	40.6	39.6	40.6	27.7
87.5°	1.0	1.0	10.9	12.9	8.9	9.9	11.9	12.9	15.9	14.9	11.9
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°	1202.4	1202.4	1202.4	1202.4	1202.4	1202.4	1202.4	1202.4	1202.4	1202.4	1202.4
2.5°	1238.1	1198.5	1125.1	1054.7	1002.2	968.4	924.8	909.0	886.2	883.2	872.3
5°	1291.6	1216.2	1088.4	987.3	906.0	844.5	791.0	746.4	710.7	702.8	706.7
7.5°	1367.9	1255.9	1077.5	939.7	826.7	721.6	636.3	583.9	546.1	532.3	534.3
10°	1454.2	1308.5	1075.5	889.2	716.7	587.8	494.6	448.0	426.3	418.3	409.4
12.5°	1556.3	1368.9	1070.5	810.9	595.7	468.9	402.5	374.7	353.8	348.0	348.0
15°	1671.2	1433.4	1046.8	713.7	483.7	387.6	343.0	321.2	314.2	308.3	308.3
17.5°	1791.2	1496.8	997.2	593.7	401.4	332.1	304.4	291.4	281.5	274.6	274.6
20°	1928.0	1559.3	917.9	487.7	339.0	296.4	274.6	259.7	251.8	245.9	243.8
22.5°	2057.8	1609.8	816.8	400.5	295.4	266.6	246.8	231.0	223.0	220.0	220.0
25°	2192.6	1640.5	694.8	331.1	269.6	241.9	220.0	207.2	200.2	198.3	197.2
27.5°	2323.5	1658.4	587.8	289.5	245.9	219.1	198.3	188.3	181.4	179.4	180.4
30°	2482.1	1661.4	483.7	259.7	225.0	197.2	178.4	169.5	165.5	163.6	162.6
32.5°	2642.7	1657.4	406.4	241.9	205.2	178.4	162.6	155.7	152.7	149.7	149.7
35°	2823.1	1636.5	345.9	224.0	186.4	162.6	148.7	142.7	138.7	135.8	134.8
37.5°	3047.1	1625.7	311.2	204.2	169.5	147.7	134.8	128.9	125.9	121.9	120.9
40°	3400.0	1674.2	300.4	186.4	152.7	133.8	121.9	115.0	111.0	107.0	106.1
42.5°	3840.1	1759.5	282.5	168.5	137.8	120.9	109.1	101.1	94.2	89.2	87.2
45°	4410.1	1871.4	254.8	149.7	124.9	107.0	96.2	86.2	77.3	73.4	72.3
47.5°	5007.8	1979.5	230.0	134.8	111.0	95.1	83.2	72.3	64.4	61.5	60.4
50°	5374.6	2001.3	214.1	117.9	97.2	82.3	70.4	60.4	55.5	52.5	52.5
52.5°	5542.1	1966.7	192.3	103.1	84.3	72.3	60.4	52.5	49.6	47.6	46.6
55°	5659.1	1913.1	163.6	89.2	72.3	61.5	53.6	47.6	43.6	41.7	40.6
57°	5727.4	1840.8	141.7	78.3	62.5	53.6	47.6	42.6	38.7	34.7	34.7
57.5°	5730.4	1813.0	135.8	77.3	59.5	51.5	46.6	41.7	36.6	32.7	31.7
60°	5642.2	1622.7	109.1	65.5	47.6	43.6	38.7	32.7	25.8	21.8	20.8
62.5°	5358.7	1380.8	90.2	55.5	38.7	33.7	27.7	24.7	17.9	12.9	12.9
65°	4929.5	1120.1	77.3	44.6	31.7	24.7	18.9	17.9	10.9	6.0	4.9
67.5°	4309.0	872.3	65.5	36.6	26.8	17.9	12.9	11.9	6.0	2.0	0.0
70°	3283.0	594.8	54.5	29.8	19.8	12.9	8.9	7.0	4.0	1.0	0.0
72.5°	1892.3	327.1	45.6	22.8	14.9	9.9	7.0	4.0	4.0	0.0	0.0
75°	676.0	140.8	34.7	16.8	11.9	7.9	4.9	2.0	3.0	1.0	0.0
77.5°	215.1	75.3	22.8	12.9	9.9	6.0	4.0	2.0	2.0	1.0	0.0
80°	63.4	39.6	13.9	10.9	7.0	4.9	3.0	1.0	2.0	1.0	0.0
82.5°	34.7	19.8	10.9	7.9	7.0	4.0	3.0	1.0	1.0	1.0	0.0
85°	17.9	11.9	8.9	7.9	7.0	4.0	3.0	1.0	0.0	1.0	1.0
87.5°	9.9	8.9	8.9	7.9	7.0	4.9	3.0	1.0	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)