

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: P647788

Luminaire Tested: **GALN-SA2A-835-U-T2R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P647788
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-SA2A-835-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 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: 5765.2 lumens
Efficiency: N/A
Efficacy: 91.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B0 - U0 - G1

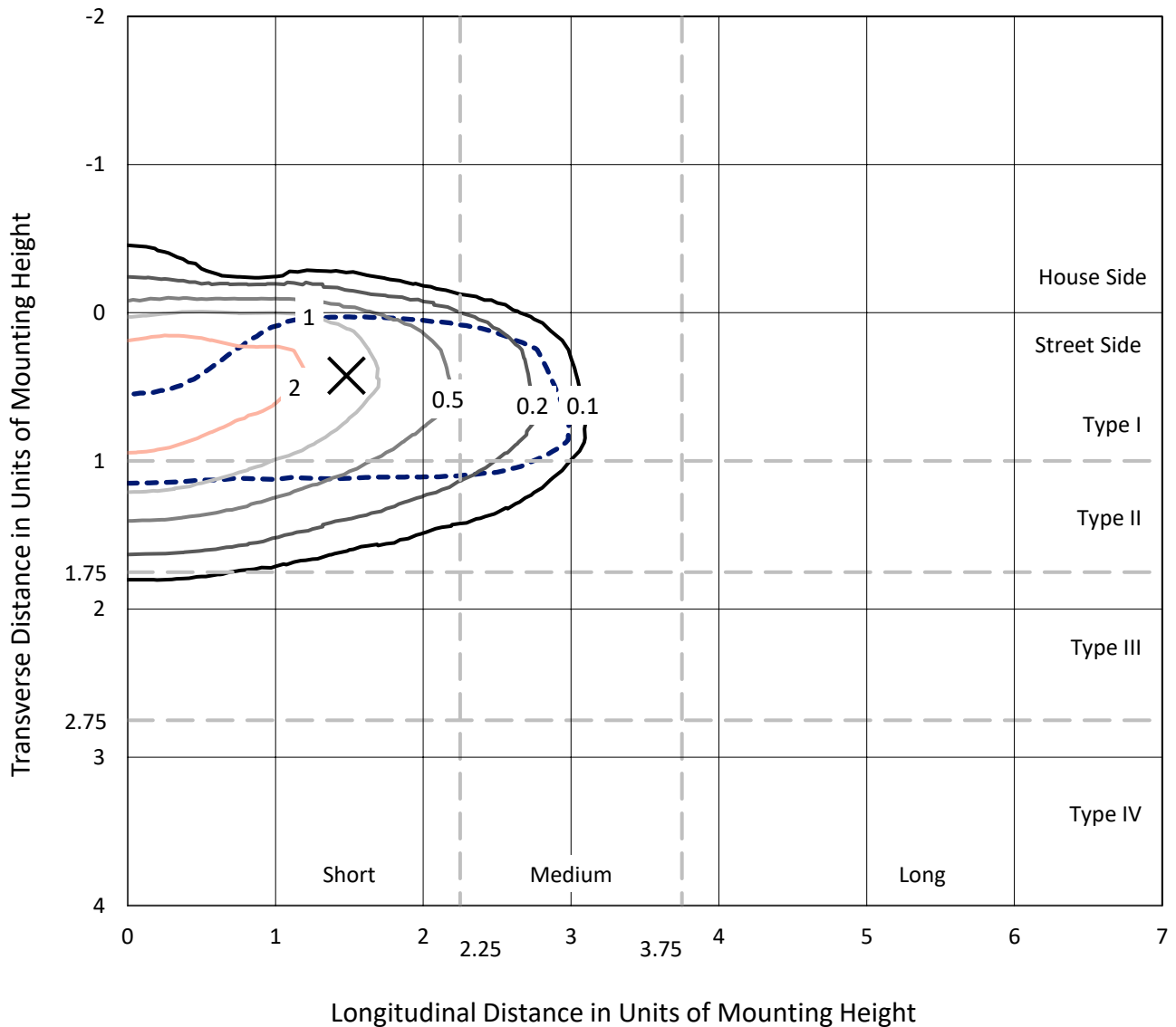
Input Watts (W): 63
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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 CATALOG NUMBER: GALN-SA2A-835-U-T2R-HSS

Iso-Footcandle Lines of Horizontal Illumination

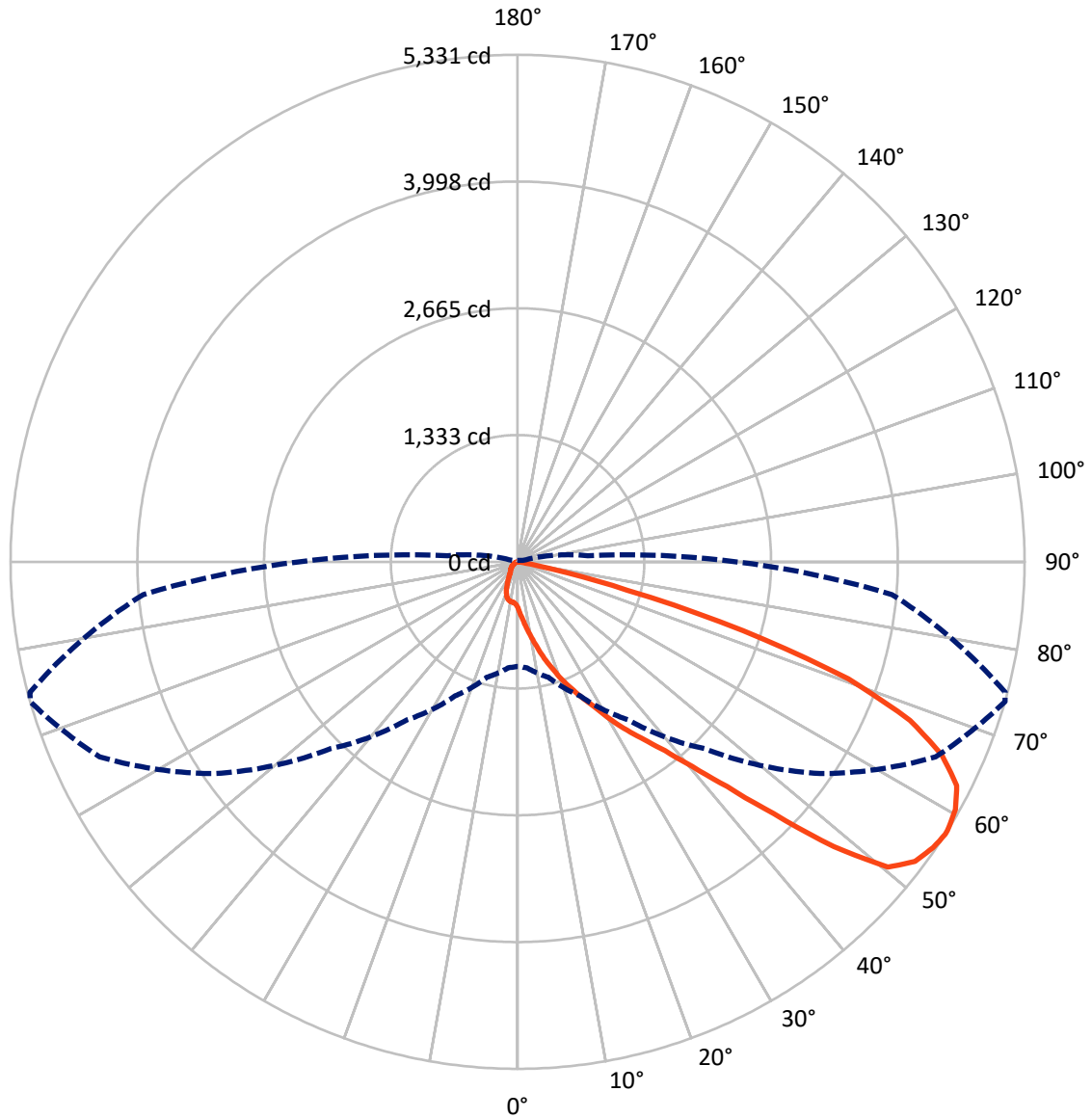
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.9 fc
 Type II - Short - N/A

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CATALOG NUMBER: GALN-SA2A-835-U-T2R-HSS

Luminous Intensity Polar Plot



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

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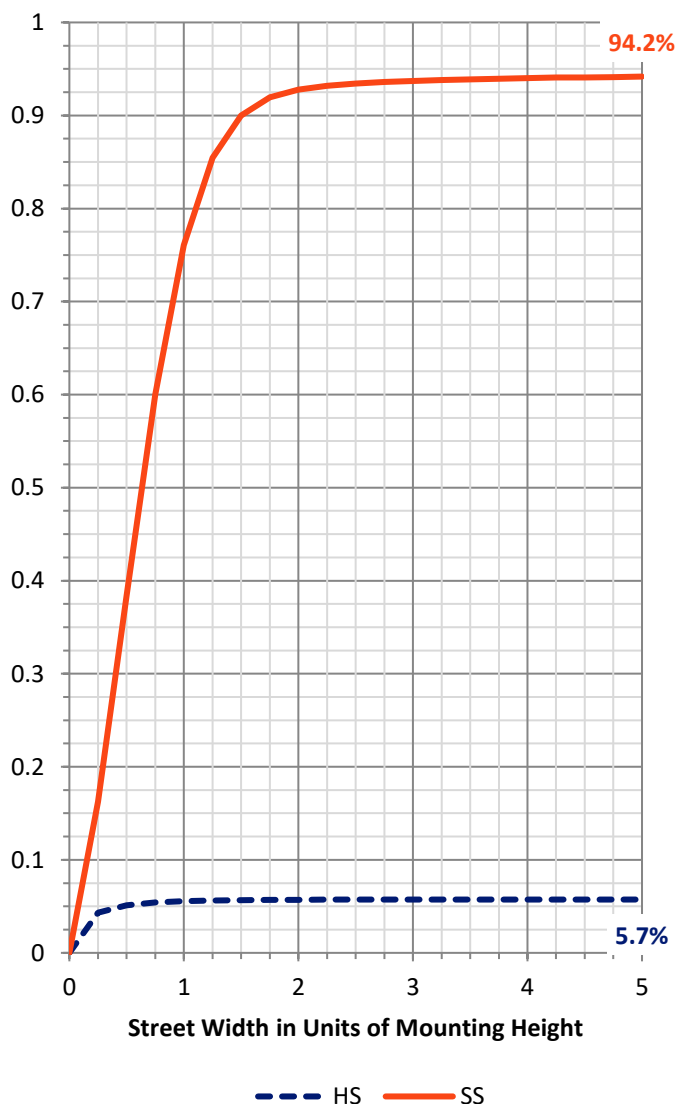
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	332.5	0.0	332.5
	% Fixture	5.8	0.0	5.8
Street Side	Lumens	5432.7	0.0	5432.7
	% Fixture	94.2	0.0	94.2
Total	Lumens	5765.2	0.0	5765.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	58.3	1.0
10°-20°	229.7	4.0
20°-30°	491.5	8.5
30°-40°	903.4	15.7
40°-50°	1385.0	24.0
50°-60°	1465.1	25.4
60°-70°	956.8	16.6
70°-80°	261.4	4.5
80°-90°	14.1	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°	5765.2	100.0
0°-180°	5765.2	100.0

Coefficient of Utilization

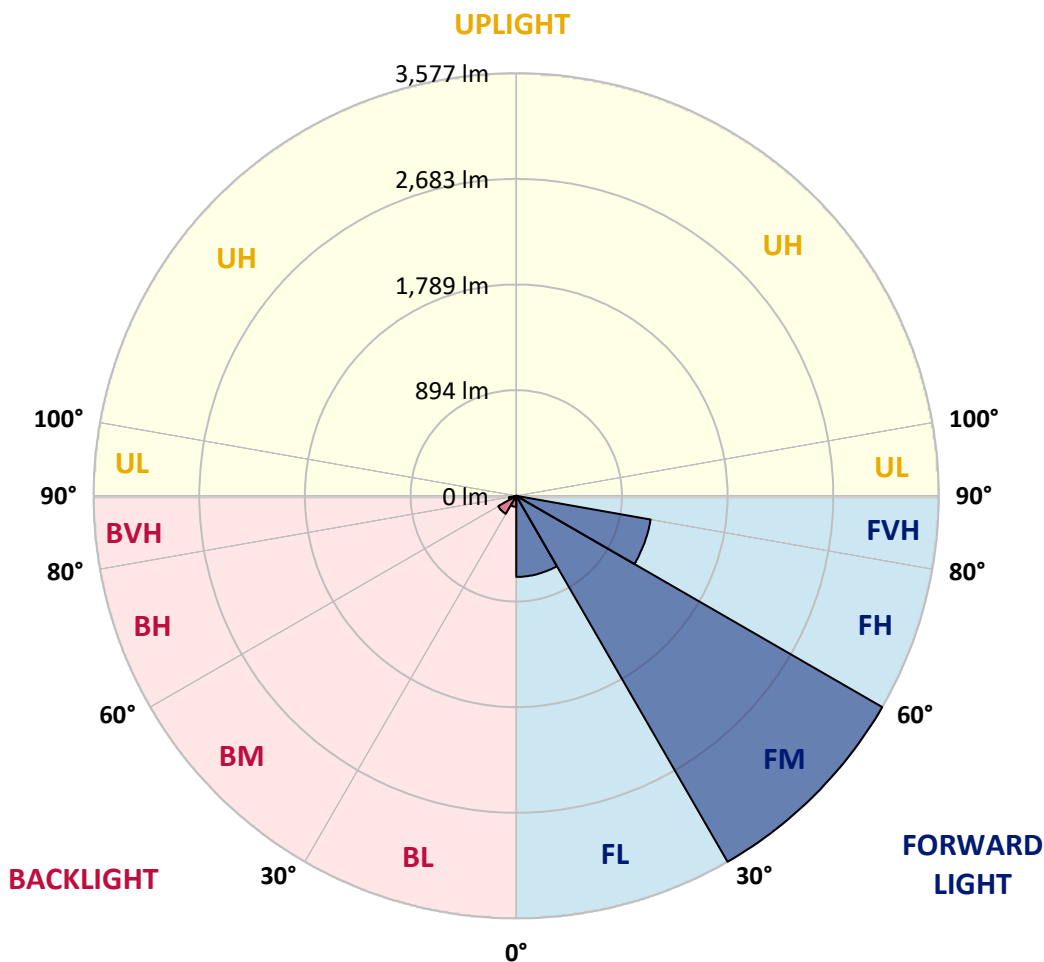


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	686.6	11.9			
FM (30°-60°)	3577.4	62.1			
FH (60°-80°)	1155.7	20.0			G1/1800
FVH (80°-90°)	12.9	0.2			G1/100
BL (0°-30°)	92.9	1.6	B0/110		
BM (30°-60°)	176.0	3.1	B0/220		
BH (60°-80°)	62.4	1.1	B0/110		G0/110
BVH (80°-90°)	1.2	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	482.8	482.8	482.8	482.8	482.8	482.8	482.8	482.8	482.8	482.8	482.8
2.5°	706.5	700.2	687.4	683.0	664.4	635.2	609.8	575.6	548.5	545.8	513.1
5°	946.2	931.8	925.8	897.2	852.2	810.0	737.6	682.6	619.4	614.6	548.9
7.5°	1177.0	1157.1	1151.2	1124.1	1071.5	1005.1	911.1	811.2	710.9	701.7	597.0
10°	1344.2	1347.0	1336.3	1318.3	1275.7	1208.1	1092.2	955.7	812.8	801.2	651.2
12.5°	1464.1	1463.6	1465.6	1465.2	1442.5	1391.2	1269.4	1112.2	925.0	902.4	713.3
15°	1542.0	1543.2	1549.2	1569.9	1572.3	1540.5	1438.9	1261.8	1055.2	1027.0	780.6
17.5°	1620.8	1629.2	1638.7	1658.2	1675.8	1663.0	1591.4	1417.9	1173.0	1151.9	852.6
20°	1751.0	1762.5	1757.0	1769.0	1778.0	1779.3	1723.9	1561.9	1315.9	1280.5	935.0
22.5°	1959.2	1958.8	1944.4	1923.0	1905.0	1904.3	1854.1	1710.0	1445.7	1411.4	1017.8
25°	2222.3	2223.5	2195.6	2134.3	2089.7	2035.2	1977.5	1839.7	1584.6	1542.4	1105.0
27.5°	2524.0	2516.5	2474.3	2389.9	2301.5	2208.4	2125.1	1990.6	1731.9	1696.8	1204.9
30°	2795.1	2792.3	2742.9	2639.8	2523.6	2430.0	2309.5	2179.7	1922.6	1879.6	1316.8
32.5°	3047.4	3051.4	2983.0	2876.3	2764.1	2656.2	2528.8	2360.4	2109.6	2048.7	1438.5
35°	3244.4	3248.4	3177.6	3088.9	2973.4	2883.9	2762.4	2553.0	2294.3	2243.0	1578.7
37.5°	3349.6	3354.8	3313.7	3246.9	3174.8	3129.8	3016.8	2801.0	2518.8	2487.8	1744.2
40°	3369.5	3375.4	3357.5	3339.6	3335.7	3367.8	3334.8	3093.2	2830.1	2781.5	1991.0
42.5°	3309.7	3317.7	3325.7	3365.5	3446.7	3564.9	3679.9	3489.7	3231.0	3165.7	2292.8
45°	3152.9	3152.1	3183.6	3286.6	3468.6	3721.0	4040.6	3986.0	3777.0	3699.4	2719.0
47.5°	2884.7	2880.7	2948.7	3095.6	3379.0	3749.6	4334.7	4588.7	4474.1	4402.4	3177.2
50°	2475.8	2495.3	2602.5	2807.4	3156.5	3662.8	4425.5	4984.0	5046.0	4970.0	3547.4
52.5°	1997.0	1996.2	2164.2	2442.4	2826.9	3471.7	4362.2	5055.6	5231.9	5173.8	3729.7
55°	1477.9	1488.3	1663.0	1943.6	2399.0	3123.1	4155.6	4981.9	5302.8	5261.8	3849.9
57°	1099.4	1117.7	1257.8	1554.8	2026.5	2778.0	3880.5	4850.2	5330.7	5308.3	3949.8
57.5°	1026.2	1027.0	1163.5	1433.4	1917.4	2645.4	3801.8	4795.2	5329.9	5317.5	3966.1
60°	631.7	651.6	746.0	968.9	1403.5	2064.7	3273.6	4479.6	5288.5	5306.4	4035.8
62.5°	378.1	386.5	447.8	584.0	904.8	1507.0	2678.9	4075.6	5180.6	5235.1	4031.0
65°	243.2	245.2	273.0	353.4	565.6	1018.6	2064.3	3541.8	4901.6	5001.9	3873.4
67.5°	187.8	191.1	202.2	232.1	328.0	634.5	1460.1	2972.2	4450.2	4579.5	3491.2
70°	166.8	168.3	172.3	181.9	217.0	358.2	908.4	2321.8	3690.3	3726.9	2732.2
72.5°	136.2	140.5	152.8	156.1	171.9	223.7	505.5	1558.3	2479.4	2488.6	1528.5
75°	105.5	106.3	124.6	133.7	144.9	154.0	225.7	785.7	1190.9	1127.3	589.1
77.5°	78.8	82.4	90.7	102.3	118.2	110.2	101.1	296.1	369.8	363.0	171.2
80°	50.6	52.5	63.3	76.8	91.9	72.0	56.9	86.8	81.2	83.6	41.0
82.5°	25.4	25.8	40.6	62.5	58.5	36.3	35.9	35.4	30.2	29.8	19.1
85°	2.8	6.0	26.3	35.9	26.3	12.0	16.8	16.3	15.9	16.3	11.1
87.5°	0.4	0.4	4.4	5.2	3.6	4.0	4.8	5.2	6.3	6.0	4.8
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°	482.8	482.8	482.8	482.8	482.8	482.8	482.8	482.8	482.8	482.8	482.8
2.5°	497.1	481.2	451.8	423.5	402.5	388.9	371.4	365.0	355.9	354.6	350.3
5°	518.7	488.4	437.1	396.4	363.8	339.1	317.7	299.7	285.4	282.2	283.8
7.5°	549.3	504.3	432.7	377.3	332.0	289.8	255.6	234.4	219.3	213.8	214.5
10°	584.0	525.4	431.9	357.0	287.8	236.1	198.6	179.9	171.2	168.0	164.4
12.5°	624.9	549.7	429.9	325.6	239.2	188.3	161.6	150.5	142.1	139.7	139.7
15°	671.1	575.6	420.3	286.6	194.3	155.7	137.7	129.0	126.2	123.8	123.8
17.5°	719.3	601.0	400.4	238.4	161.2	133.3	122.2	117.1	113.1	110.2	110.2
20°	774.2	626.2	368.6	195.8	136.2	119.0	110.2	104.3	101.1	98.7	98.0
22.5°	826.4	646.4	328.0	160.8	118.6	107.0	99.1	92.7	89.6	88.4	88.4
25°	880.5	658.7	279.1	133.0	108.3	97.1	88.4	83.2	80.4	79.6	79.2
27.5°	933.0	665.9	236.1	116.2	98.7	87.9	79.6	75.6	72.8	72.0	72.4
30°	996.7	667.1	194.3	104.3	90.4	79.2	71.6	68.0	66.5	65.7	65.3
32.5°	1061.2	665.6	163.2	97.1	82.4	71.6	65.3	62.5	61.3	60.1	60.1
35°	1133.6	657.2	138.9	90.0	74.9	65.3	59.7	57.3	55.7	54.5	54.1
37.5°	1223.6	652.8	125.0	82.0	68.0	59.3	54.1	51.8	50.6	48.9	48.5
40°	1365.3	672.3	120.6	74.9	61.3	53.7	48.9	46.2	44.6	43.0	42.6
42.5°	1542.0	706.5	113.5	67.7	55.4	48.5	43.8	40.6	37.8	35.9	35.0
45°	1770.9	751.5	102.3	60.1	50.2	43.0	38.6	34.6	31.1	29.4	29.0
47.5°	2010.9	794.9	92.3	54.1	44.6	38.2	33.4	29.0	25.8	24.7	24.3
50°	2158.2	803.7	86.0	47.4	39.0	33.0	28.3	24.3	22.3	21.1	21.1
52.5°	2225.4	789.7	77.2	41.4	33.8	29.0	24.3	21.1	19.9	19.1	18.7
55°	2272.4	768.2	65.7	35.9	29.0	24.7	21.5	19.1	17.5	16.8	16.3
57°	2299.9	739.2	56.9	31.5	25.1	21.5	19.1	17.1	15.5	13.9	13.9
57.5°	2301.1	728.0	54.5	31.1	23.9	20.7	18.7	16.8	14.7	13.2	12.8
60°	2265.7	651.6	43.8	26.3	19.1	17.5	15.5	13.2	10.3	8.8	8.4
62.5°	2151.8	554.4	36.3	22.3	15.5	13.5	11.1	9.9	7.2	5.2	5.2
65°	1979.5	449.8	31.1	17.9	12.8	9.9	7.6	7.2	4.4	2.4	2.0
67.5°	1730.3	350.3	26.3	14.7	10.7	7.2	5.2	4.8	2.4	0.8	0.0
70°	1318.3	238.8	21.9	12.0	8.0	5.2	3.6	2.8	1.6	0.4	0.0
72.5°	759.9	131.4	18.3	9.2	6.0	4.0	2.8	1.6	1.6	0.0	0.0
75°	271.5	56.5	13.9	6.7	4.8	3.2	2.0	0.8	1.2	0.4	0.0
77.5°	86.4	30.2	9.2	5.2	4.0	2.4	1.6	0.8	0.8	0.4	0.0
80°	25.4	15.9	5.6	4.4	2.8	2.0	1.2	0.4	0.8	0.4	0.0
82.5°	13.9	8.0	4.4	3.2	2.8	1.6	1.2	0.4	0.4	0.4	0.0
85°	7.2	4.8	3.6	3.2	2.8	1.6	1.2	0.4	0.0	0.4	0.4
87.5°	4.0	3.6	3.6	3.2	2.8	2.0	1.2	0.4	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)