

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: P458619

Luminaire Tested: **GALN-SA1D-735-U-T2R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458619
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-SA1D-735-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3500K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE II ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5838 lumens
Efficiency: N/A
Efficacy: 89.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B0 - U0 - G1

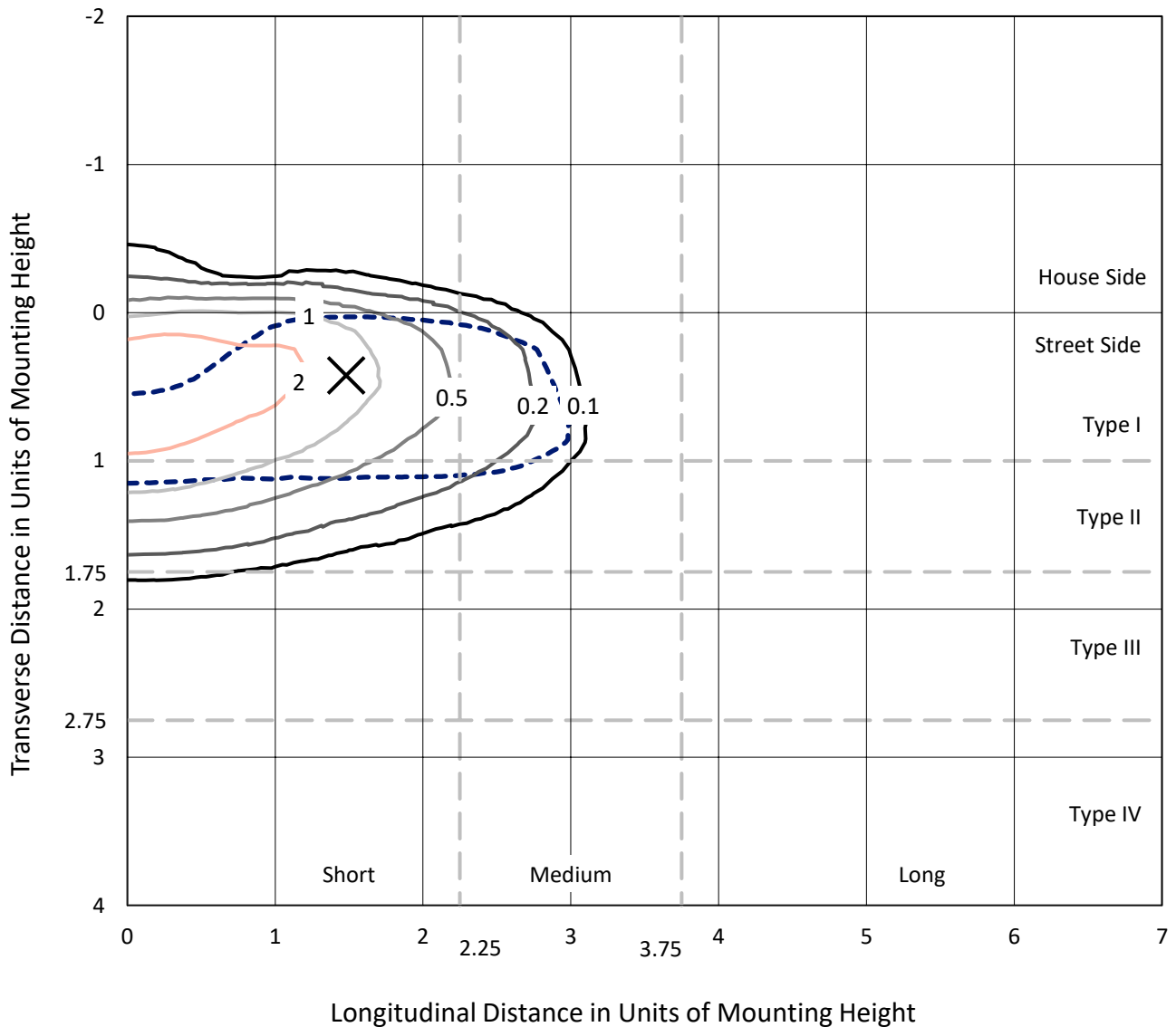
Input Watts (W): 65
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

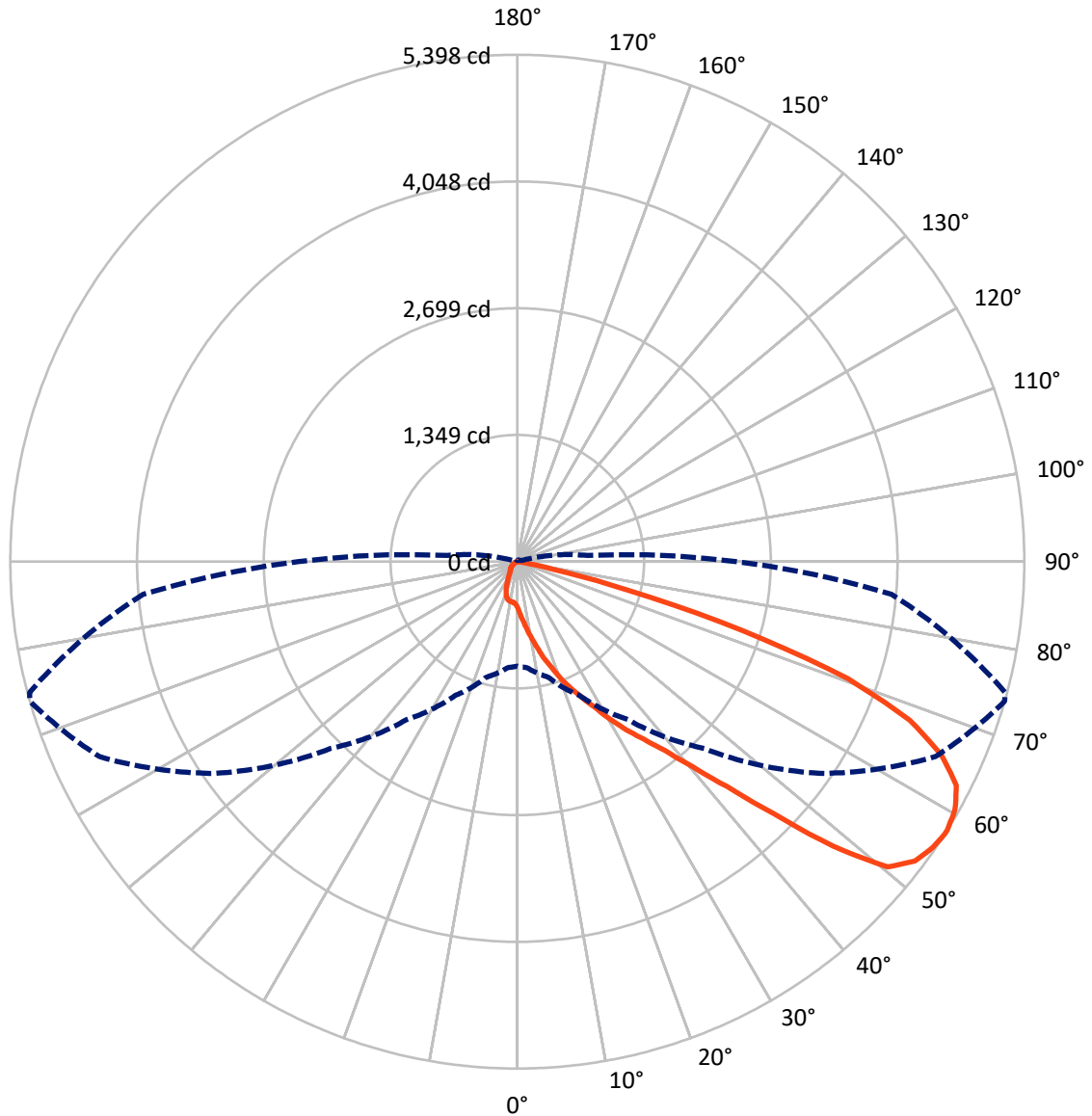
✕ Max cd
 - - - 1/2 Max cd



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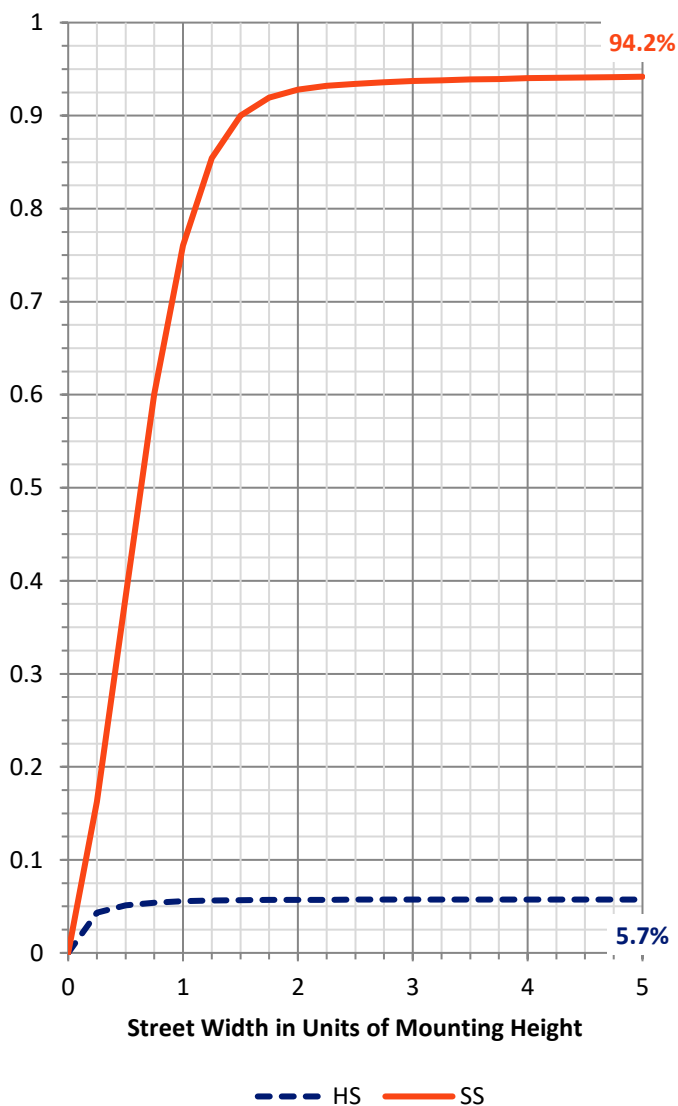
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	336.7	0.0	336.7
	% Fixture	5.8	0.0	5.8
Street Side	Lumens	5501.3	0.0	5501.3
	% Fixture	94.2	0.0	94.2
Total	Lumens	5838.0	0.0	5838.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	59.0	1.0
10°-20°	232.6	4.0
20°-30°	497.7	8.5
30°-40°	914.8	15.7
40°-50°	1402.4	24.0
50°-60°	1483.6	25.4
60°-70°	968.8	16.6
70°-80°	264.7	4.5
80°-90°	14.2	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°	5838.0	100.0
0°-180°	5838.0	100.0

Coefficient of Utilization



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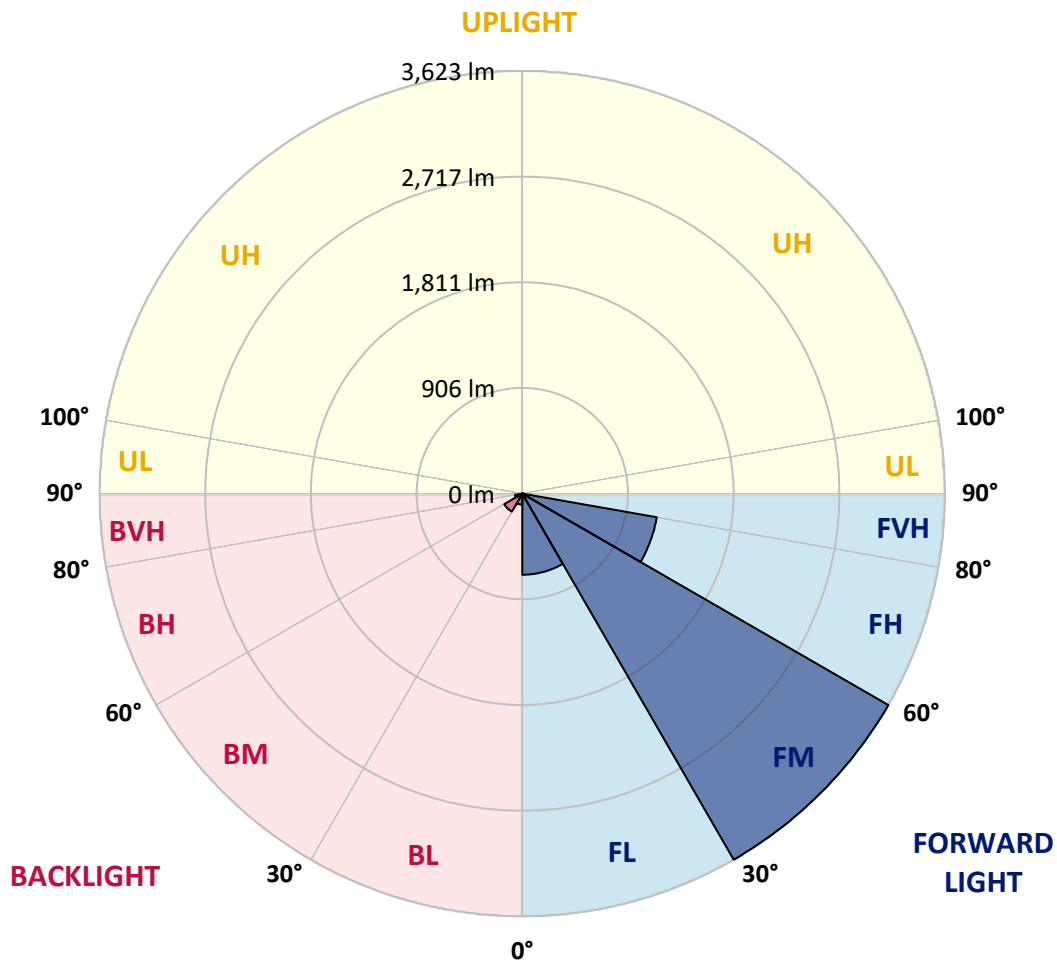
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	695.3	11.9			
FM (30°-60°)	3622.6	62.1			
FH (60°-80°)	1170.3	20.0			G1/1800
FVH (80°-90°)	13.1	0.2			G1/100
BL (0°-30°)	94.1	1.6	B0/110		
BM (30°-60°)	178.3	3.1	B0/220		
BH (60°-80°)	63.2	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°	488.9	488.9	488.9	488.9	488.9	488.9	488.9	488.9	488.9	488.9	488.9
2.5°	715.5	709.0	696.1	691.7	672.7	643.3	617.5	582.8	555.4	552.6	519.6
5°	958.1	943.6	937.5	908.5	863.0	820.2	746.9	691.3	627.2	622.3	555.8
7.5°	1191.9	1171.7	1165.7	1138.3	1085.1	1017.8	922.6	821.5	719.9	710.6	604.6
10°	1361.2	1364.0	1353.1	1335.0	1291.8	1223.3	1106.0	967.8	823.1	811.4	659.4
12.5°	1482.5	1482.1	1484.1	1483.7	1460.7	1408.7	1285.4	1126.2	936.7	913.8	722.3
15°	1561.5	1562.7	1568.8	1589.7	1592.1	1559.9	1457.1	1277.7	1068.5	1039.9	790.4
17.5°	1641.3	1649.8	1659.4	1679.2	1696.9	1684.0	1611.5	1435.7	1187.8	1166.5	863.4
20°	1773.1	1784.8	1779.2	1791.2	1800.5	1801.7	1745.7	1581.6	1332.6	1296.7	946.8
22.5°	1983.9	1983.5	1969.0	1947.2	1929.1	1928.3	1877.5	1731.6	1464.0	1429.3	1030.7
25°	2250.3	2251.6	2223.3	2161.3	2116.1	2060.9	2002.5	1863.0	1604.6	1561.9	1118.9
27.5°	2555.9	2548.2	2505.5	2420.0	2330.6	2236.2	2152.0	2015.8	1753.8	1718.3	1220.1
30°	2830.4	2827.5	2777.6	2673.2	2555.5	2460.7	2338.6	2207.2	1946.8	1903.3	1333.4
32.5°	3085.9	3089.9	3020.6	2912.6	2798.9	2689.7	2560.7	2390.2	2136.3	2074.6	1456.7
35°	3285.4	3289.5	3217.7	3127.8	3010.9	2920.2	2797.3	2585.3	2323.3	2271.3	1598.6
37.5°	3391.8	3397.1	3355.6	3287.8	3214.9	3169.3	3054.9	2836.4	2550.6	2519.2	1766.3
40°	3412.0	3418.0	3399.9	3381.8	3377.7	3410.4	3376.9	3132.3	2865.8	2816.7	2016.2
42.5°	3351.5	3359.6	3367.7	3408.0	3490.2	3609.9	3726.4	3533.7	3271.7	3205.6	2321.7
45°	3192.7	3191.9	3223.8	3328.2	3512.4	3767.9	4091.6	4036.4	3824.7	3746.1	2753.4
47.5°	2921.1	2917.0	2985.9	3134.7	3421.7	3796.9	4389.4	4646.6	4530.5	4458.0	3217.3
50°	2507.1	2526.9	2635.3	2842.9	3196.4	3709.1	4481.3	5046.8	5109.7	5032.7	3592.2
52.5°	2022.2	2021.4	2191.5	2473.2	2862.6	3515.6	4417.3	5119.4	5298.0	5239.1	3776.8
55°	1496.6	1507.1	1684.0	1968.2	2429.3	3162.5	4208.1	5044.8	5369.7	5328.2	3898.5
57°	1113.3	1131.8	1273.7	1574.4	2052.0	2813.0	3929.5	4911.4	5397.9	5375.4	3999.7
57.5°	1039.1	1039.9	1178.2	1451.5	1941.6	2678.8	3849.7	4855.8	5397.1	5384.6	4016.2
60°	639.7	659.8	755.4	981.1	1421.2	2090.7	3314.9	4536.2	5355.2	5373.3	4086.7
62.5°	382.9	391.4	453.5	591.3	916.2	1526.0	2712.7	4127.0	5246.0	5301.2	4081.9
65°	246.3	248.3	276.5	357.9	572.8	1031.5	2090.3	3586.5	4963.4	5065.0	3922.3
67.5°	190.2	193.5	204.8	235.0	332.1	642.5	1478.5	3009.7	4506.3	4637.3	3535.3
70°	168.9	170.5	174.5	184.2	219.7	362.8	919.8	2351.1	3736.9	3774.0	2766.7
72.5°	137.9	142.3	154.8	158.0	174.1	226.5	511.9	1578.0	2510.7	2520.0	1547.8
75°	106.8	107.6	126.2	135.4	146.7	156.0	228.5	795.7	1206.0	1141.5	596.5
77.5°	79.8	83.4	91.9	103.6	119.7	111.7	102.4	299.9	374.5	367.6	173.3
80°	51.2	53.2	64.1	77.8	93.1	73.0	57.6	87.9	82.2	84.6	41.5
82.5°	25.8	26.2	41.1	63.3	59.3	36.7	36.3	35.9	30.6	30.2	19.3
85°	2.8	6.0	26.6	36.3	26.6	12.1	16.9	16.5	16.1	16.5	11.3
87.5°	0.4	0.4	4.4	5.2	3.6	4.0	4.8	5.2	6.4	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°	488.9	488.9	488.9	488.9	488.9	488.9	488.9	488.9	488.9	488.9	488.9
2.5°	503.4	487.3	457.5	428.9	407.5	393.8	376.1	369.6	360.3	359.1	354.7
5°	525.2	494.6	442.6	401.5	368.4	343.4	321.7	303.5	289.0	285.8	287.4
7.5°	556.2	510.7	438.1	382.1	336.2	293.4	258.8	237.4	222.1	216.4	217.3
10°	591.3	532.1	437.3	361.6	291.4	239.0	201.1	182.2	173.3	170.1	166.5
12.5°	632.8	556.6	435.3	329.7	242.2	190.7	163.6	152.4	143.9	141.5	141.5
15°	679.6	582.8	425.6	290.2	196.7	157.6	139.5	130.6	127.8	125.4	125.4
17.5°	728.3	608.6	405.5	241.4	163.2	135.0	123.7	118.5	114.5	111.7	111.7
20°	784.0	634.0	373.2	198.3	137.9	120.5	111.7	105.6	102.4	100.0	99.2
22.5°	836.8	654.6	332.1	162.8	120.1	108.4	100.4	93.9	90.7	89.5	89.5
25°	891.6	667.1	282.6	134.6	109.6	98.3	89.5	84.2	81.4	80.6	80.2
27.5°	944.8	674.3	239.0	117.7	100.0	89.1	80.6	76.6	73.8	73.0	73.4
30°	1009.3	675.5	196.7	105.6	91.5	80.2	72.6	68.9	67.3	66.5	66.1
32.5°	1074.6	673.9	165.3	98.3	83.4	72.6	66.1	63.3	62.1	60.9	60.9
35°	1147.9	665.5	140.7	91.1	75.8	66.1	60.5	58.0	56.4	55.2	54.8
37.5°	1239.0	661.0	126.6	83.0	68.9	60.1	54.8	52.4	51.2	49.6	49.2
40°	1382.5	680.8	122.1	75.8	62.1	54.4	49.6	46.8	45.1	43.5	43.1
42.5°	1561.5	715.5	114.9	68.5	56.0	49.2	44.3	41.1	38.3	36.3	35.5
45°	1793.3	761.0	103.6	60.9	50.8	43.5	39.1	35.1	31.4	29.8	29.4
47.5°	2036.3	804.9	93.5	54.8	45.1	38.7	33.9	29.4	26.2	25.0	24.6
50°	2185.4	813.8	87.1	48.0	39.5	33.5	28.6	24.6	22.6	21.4	21.4
52.5°	2253.6	799.7	78.2	41.9	34.3	29.4	24.6	21.4	20.2	19.3	18.9
55°	2301.1	777.9	66.5	36.3	29.4	25.0	21.8	19.3	17.7	16.9	16.5
57°	2328.9	748.5	57.6	31.8	25.4	21.8	19.3	17.3	15.7	14.1	14.1
57.5°	2330.2	737.2	55.2	31.4	24.2	21.0	18.9	16.9	14.9	13.3	12.9
60°	2294.3	659.8	44.3	26.6	19.3	17.7	15.7	13.3	10.5	8.9	8.5
62.5°	2179.0	561.5	36.7	22.6	15.7	13.7	11.3	10.1	7.3	5.2	5.2
65°	2004.5	455.5	31.4	18.1	12.9	10.1	7.7	7.3	4.4	2.4	2.0
67.5°	1752.1	354.7	26.6	14.9	10.9	7.3	5.2	4.8	2.4	0.8	0.0
70°	1335.0	241.8	22.2	12.1	8.1	5.2	3.6	2.8	1.6	0.4	0.0
72.5°	769.5	133.0	18.5	9.3	6.0	4.0	2.8	1.6	1.6	0.0	0.0
75°	274.9	57.2	14.1	6.9	4.8	3.2	2.0	0.8	1.2	0.4	0.0
77.5°	87.5	30.6	9.3	5.2	4.0	2.4	1.6	0.8	0.8	0.4	0.0
80°	25.8	16.1	5.6	4.4	2.8	2.0	1.2	0.4	0.8	0.4	0.0
82.5°	14.1	8.1	4.4	3.2	2.8	1.6	1.2	0.4	0.4	0.4	0.0
85°	7.3	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)