

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: P458534

Luminaire Tested: **GALN-SA1A-735-U-T3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458534
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-13)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA1A-735-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3500K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE III OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3165 lumens
Efficiency: N/A
Efficacy: 95.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G1

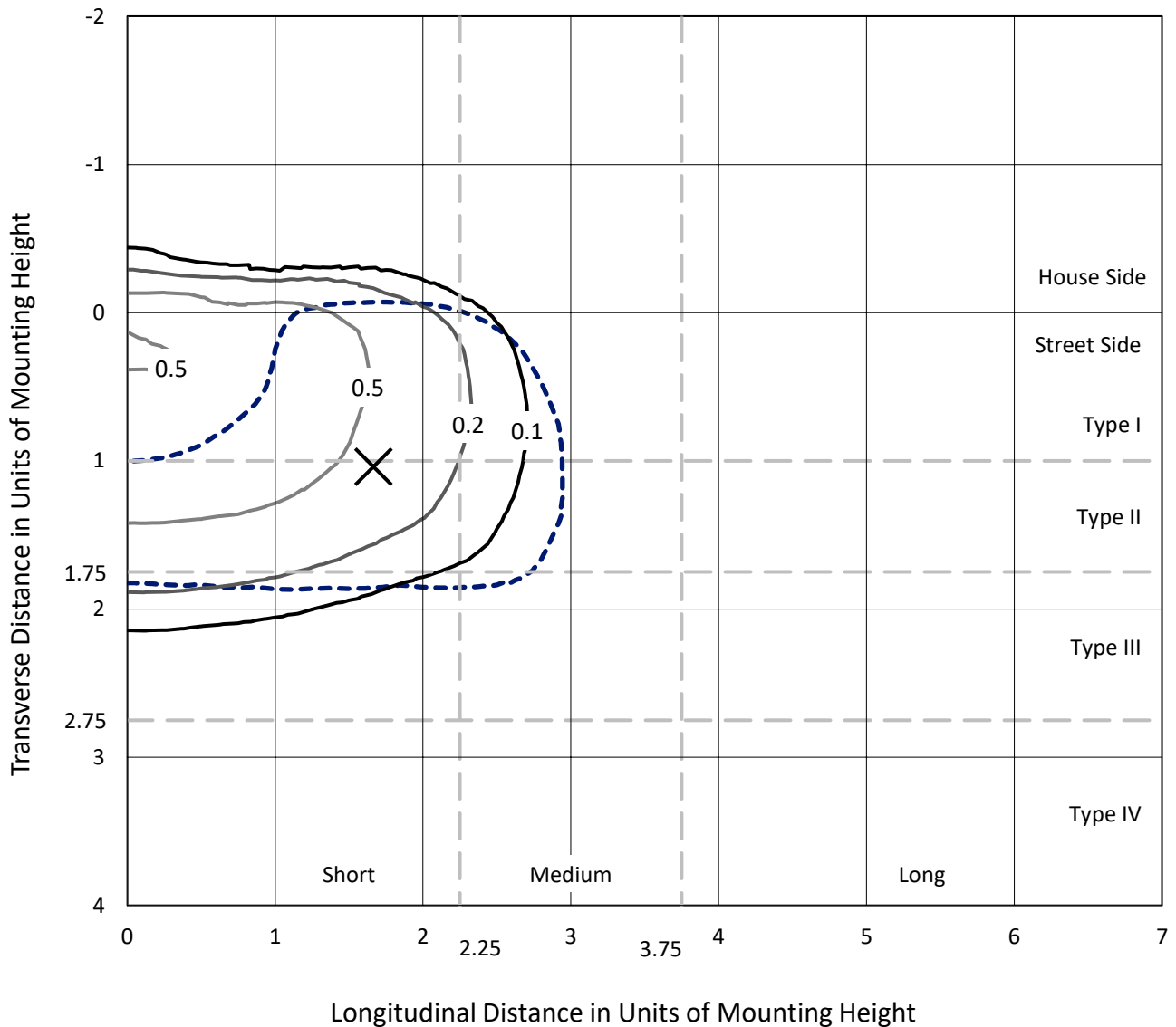
Input Watts (W): 33
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

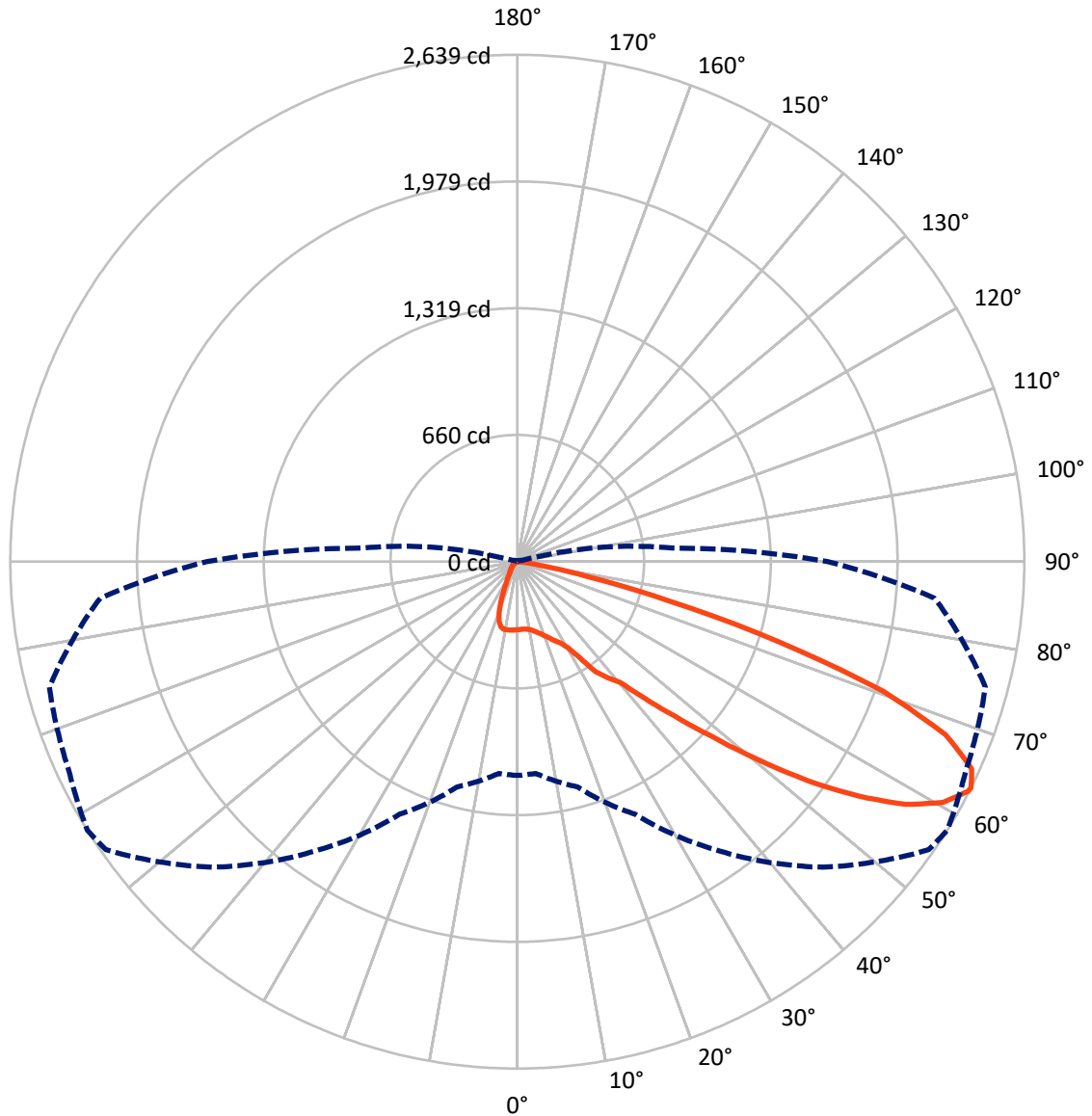
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.8 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 63-Deg Vertical

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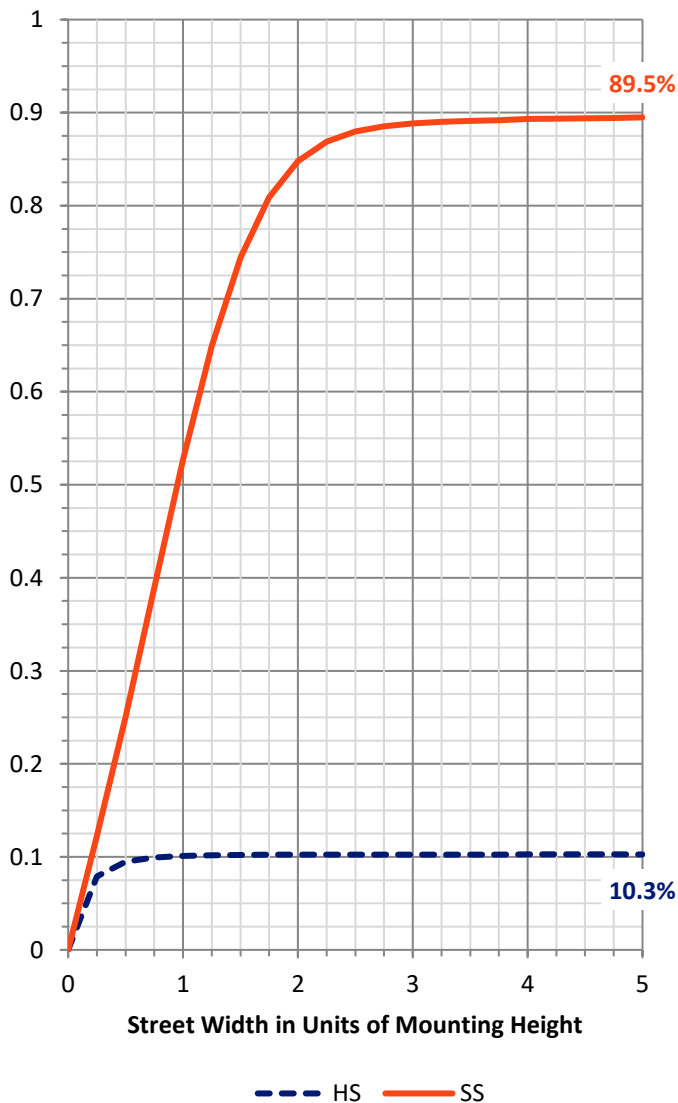
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	327.7	0.0	327.7
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	2837.3	0.0	2837.3
	% Fixture	89.6	0.0	89.6
Total	Lumens	3165.0	0.0	3165.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	33.2	1.0
10°-20°	90.3	2.9
20°-30°	156.8	5.0
30°-40°	288.1	9.1
40°-50°	542.4	17.1
50°-60°	927.7	29.3
60°-70°	888.3	28.1
70°-80°	226.5	7.2
80°-90°	11.6	0.4
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°	3165.0	100.0
0°-180°	3165.0	100.0

Coefficient of Utilization



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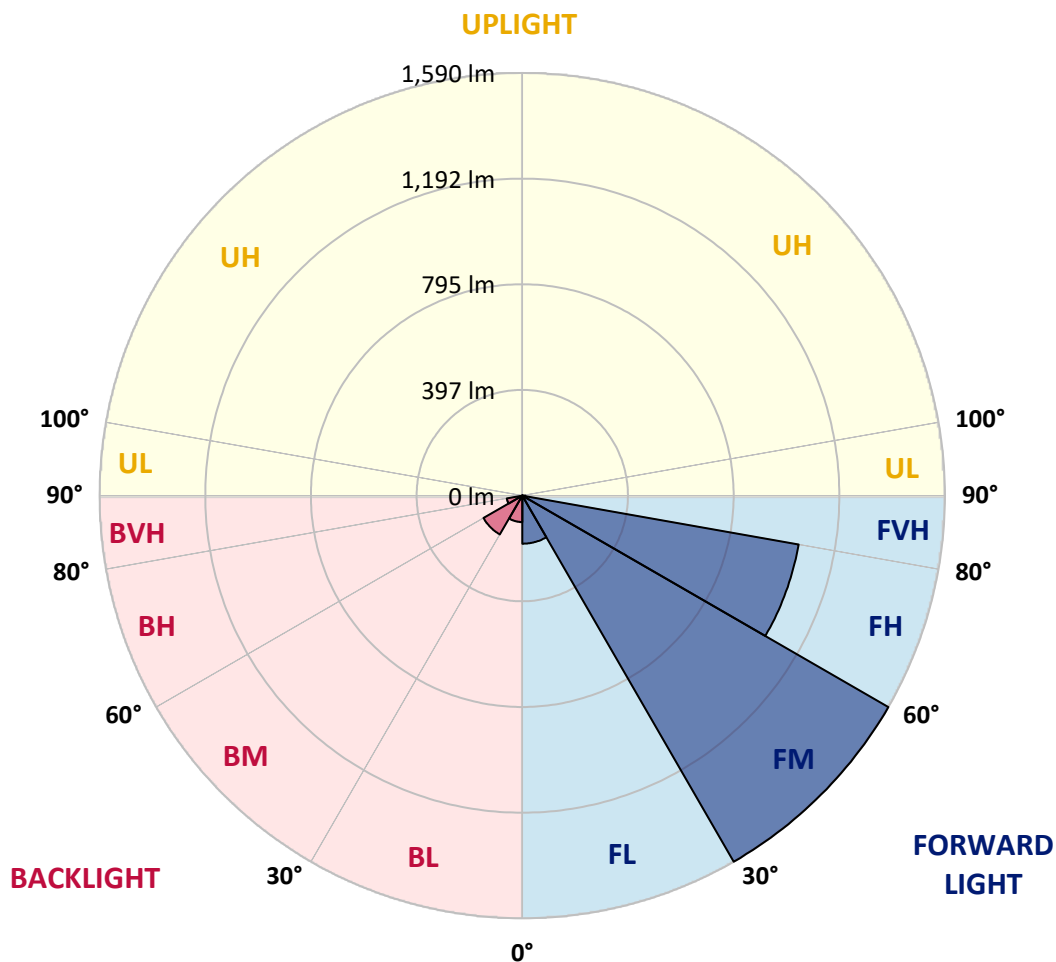
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	180.9	5.7			
FM (30°-60°)	1589.7	50.2			
FH (60°-80°)	1055.5	33.3			G1/1800
FVH (80°-90°)	11.1	0.4			G1/100
BL (0°-30°)	99.4	3.1	B0/110		
BM (30°-60°)	168.6	5.3	B0/220		
BH (60°-80°)	59.3	1.9	B0/110		G0/110
BVH (80°-90°)	0.4	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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	354.3	354.3	354.3	354.3	354.3	354.3	354.3	354.3	354.3	354.3	354.3
2.5°	345.5	346.7	347.9	348.4	350.0	351.7	352.9	352.7	354.6	355.5	355.5
5°	331.7	331.7	334.8	337.7	342.4	347.2	351.7	352.7	356.2	359.6	360.8
7.5°	320.0	320.7	323.1	328.4	334.8	343.1	352.2	354.3	360.5	367.9	371.0
10°	314.5	315.0	318.1	323.6	331.7	343.1	355.8	359.8	369.3	381.0	385.3
12.5°	313.3	314.1	317.2	323.4	332.6	346.5	363.6	367.9	381.7	396.7	403.2
15°	315.5	316.0	319.1	325.7	336.0	352.4	374.1	380.1	396.5	413.9	422.2
17.5°	323.1	322.6	324.8	330.3	341.7	359.8	386.7	393.9	413.2	437.0	442.5
20°	355.5	352.4	350.5	345.8	350.3	370.3	402.0	412.5	436.3	460.6	464.4
22.5°	425.3	418.4	404.9	386.3	372.0	384.6	420.3	432.5	463.2	487.1	487.1
25°	514.2	505.4	491.8	451.3	416.3	408.2	441.1	456.3	492.5	516.6	508.7
27.5°	625.5	618.6	592.1	545.0	491.3	449.4	465.1	479.2	518.5	547.6	531.1
30°	716.1	712.7	691.0	648.9	589.8	528.5	509.9	519.2	553.1	586.7	569.7
32.5°	792.5	792.5	770.4	731.1	675.8	621.5	585.9	592.6	625.0	663.9	632.4
35°	876.7	873.8	855.9	818.5	756.6	708.7	694.1	703.2	732.5	761.3	683.9
37.5°	965.1	964.1	945.5	909.3	858.8	798.5	764.4	766.8	781.8	799.5	744.2
40°	1061.1	1062.5	1038.2	1015.8	968.2	906.4	841.2	826.1	840.2	890.0	855.5
42.5°	1174.5	1171.2	1160.7	1130.2	1091.8	1054.9	976.5	971.0	983.4	1036.8	999.4
45°	1306.3	1311.1	1292.9	1276.0	1250.3	1219.6	1154.0	1144.5	1158.1	1241.0	1187.9
47.5°	1438.3	1433.8	1445.5	1442.4	1456.2	1433.3	1375.4	1355.9	1388.5	1467.1	1389.0
50°	1538.9	1543.9	1568.2	1603.7	1663.0	1675.9	1620.4	1613.7	1628.2	1678.7	1568.9
52.5°	1604.2	1620.8	1659.0	1750.2	1857.2	1940.4	1898.2	1894.6	1888.7	1902.3	1740.9
55°	1646.8	1663.7	1713.5	1847.9	2032.1	2167.2	2169.4	2154.1	2114.8	2105.0	1901.8
57.5°	1620.6	1623.9	1694.9	1874.6	2129.1	2329.0	2399.1	2383.8	2311.2	2274.2	2043.8
60°	1456.7	1463.6	1562.5	1773.6	2086.9	2381.9	2551.3	2544.4	2464.8	2423.1	2154.4
62.5°	1166.2	1186.2	1287.9	1523.4	1890.8	2292.8	2613.1	2632.6	2570.6	2513.2	2189.2
63°	1112.8	1106.4	1213.8	1450.5	1838.9	2248.7	2614.0	2638.8	2575.4	2521.8	2179.6
65°	823.8	843.1	912.9	1143.8	1530.3	2043.6	2555.2	2599.0	2557.8	2483.9	2074.1
67.5°	462.5	461.6	538.8	748.5	1071.1	1603.0	2310.4	2403.1	2394.6	2228.9	1719.2
70°	226.4	229.9	261.6	387.9	621.2	1105.9	1919.9	2020.0	2023.1	1750.7	1188.8
72.5°	102.5	104.1	126.8	189.0	319.3	588.8	1323.0	1418.5	1400.9	1115.7	656.5
75°	54.1	57.7	69.8	95.1	153.9	242.8	719.6	812.1	775.2	509.7	241.6
77.5°	40.0	41.2	47.4	60.5	82.4	94.6	310.5	369.3	346.0	184.4	80.1
80°	29.3	30.3	35.3	42.9	51.9	48.1	117.0	134.2	120.3	62.7	24.5
82.5°	17.9	18.1	25.7	31.9	32.6	26.9	38.6	41.5	43.4	35.3	13.3
85°	6.4	8.1	17.4	23.1	19.3	13.6	16.2	17.9	19.5	22.4	7.9
87.5°	0.7	1.0	8.3	11.2	5.5	5.0	6.0	6.7	7.1	8.3	3.8
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°	354.3	354.3	354.3	354.3	354.3	354.3	354.3	354.3	354.3	354.3	354.3
2.5°	356.5	357.4	356.7	355.5	355.3	354.6	353.1	353.1	353.1	353.6	353.1
5°	361.7	362.4	360.8	358.4	355.8	352.4	348.9	346.7	346.5	346.0	344.8
7.5°	371.7	372.7	368.9	363.2	356.0	347.9	340.3	333.1	329.8	327.2	327.2
10°	386.3	387.2	379.6	369.3	355.0	338.6	320.5	304.1	291.2	285.2	283.8
12.5°	403.7	404.1	391.5	373.6	350.0	318.4	279.7	243.8	218.7	207.3	206.1
15°	422.7	419.4	402.7	375.3	335.7	276.7	209.9	165.8	139.9	132.2	135.1
17.5°	442.0	435.8	411.3	372.7	303.6	209.9	141.1	113.2	105.1	102.9	102.9
20°	460.1	451.6	417.5	361.2	247.8	144.6	104.6	97.9	96.5	95.1	95.3
22.5°	478.2	465.1	423.0	335.7	184.7	103.4	93.6	91.5	89.6	87.7	87.5
25°	495.9	477.8	425.1	288.6	125.8	88.9	85.5	82.7	78.9	76.7	76.3
27.5°	514.2	493.0	423.7	229.0	91.7	79.6	76.3	72.2	67.7	63.9	63.9
30°	549.5	522.1	418.7	164.7	77.2	70.1	65.8	59.3	54.3	50.5	50.3
32.5°	597.6	560.0	401.5	115.8	68.6	61.7	55.3	48.1	42.9	40.0	40.0
35°	640.5	598.1	369.3	85.3	61.7	53.6	45.8	38.8	34.8	32.9	32.2
37.5°	705.8	653.9	325.0	69.3	55.0	46.5	38.4	31.9	28.6	27.2	27.2
40°	803.7	722.0	270.7	60.8	48.6	39.6	31.9	26.9	24.3	22.6	22.6
42.5°	925.3	805.4	215.7	54.6	42.7	34.1	26.7	22.9	20.5	19.3	19.1
45°	1078.3	893.3	166.1	48.8	37.9	29.1	22.6	19.3	16.9	16.2	16.4
47.5°	1237.9	970.8	128.7	43.8	32.9	24.5	19.3	16.7	15.0	14.1	14.1
50°	1374.2	1024.2	97.7	38.1	29.1	20.7	16.9	15.0	13.6	13.1	12.9
52.5°	1488.1	1039.6	74.8	33.1	25.5	17.9	15.0	13.6	12.4	11.7	11.7
55°	1585.1	1026.1	58.6	27.9	21.4	15.5	13.3	12.2	10.7	10.0	9.8
57.5°	1641.8	982.5	44.8	23.1	17.4	12.9	11.7	10.2	8.6	7.4	7.4
60°	1670.4	919.1	34.3	19.1	13.3	10.2	9.5	7.6	6.0	5.0	4.8
62.5°	1636.1	835.0	26.0	15.0	10.0	7.6	6.4	5.5	3.8	2.9	2.9
63°	1614.9	810.7	25.0	14.3	9.3	7.1	6.0	5.0	3.3	2.6	2.4
65°	1472.1	704.6	20.5	11.4	7.4	5.0	4.1	3.6	2.4	1.2	1.0
67.5°	1169.0	539.0	16.2	8.6	5.2	3.6	2.4	2.1	0.7	0.0	0.0
70°	790.4	348.1	12.6	6.2	3.6	2.1	1.2	1.0	0.2	0.0	0.0
72.5°	412.2	178.5	9.8	4.5	2.1	1.4	0.7	0.2	0.0	0.0	0.0
75°	145.8	60.8	7.1	2.9	1.4	0.7	0.2	0.0	0.0	0.0	0.0
77.5°	44.1	22.6	4.5	2.1	1.0	0.5	0.0	0.0	0.0	0.0	0.0
80°	15.5	8.3	2.6	1.4	0.7	0.2	0.0	0.0	0.0	0.0	0.0
82.5°	7.6	4.1	1.7	1.2	0.7	0.2	0.0	0.0	0.0	0.0	0.0
85°	4.3	2.6	1.4	1.2	0.7	0.5	0.0	0.0	0.0	0.0	0.0
87.5°	3.1	1.9	1.4	1.2	1.0	0.5	0.2	0.0	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)