

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: P526109

Luminaire Tested: **GALN-SA1A-735-U-T2R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P526109
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-9)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1A-735-U-T2R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3500K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE II ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2851 lumens
Efficiency: N/A
Efficacy: 86.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B1 - U0 - G0

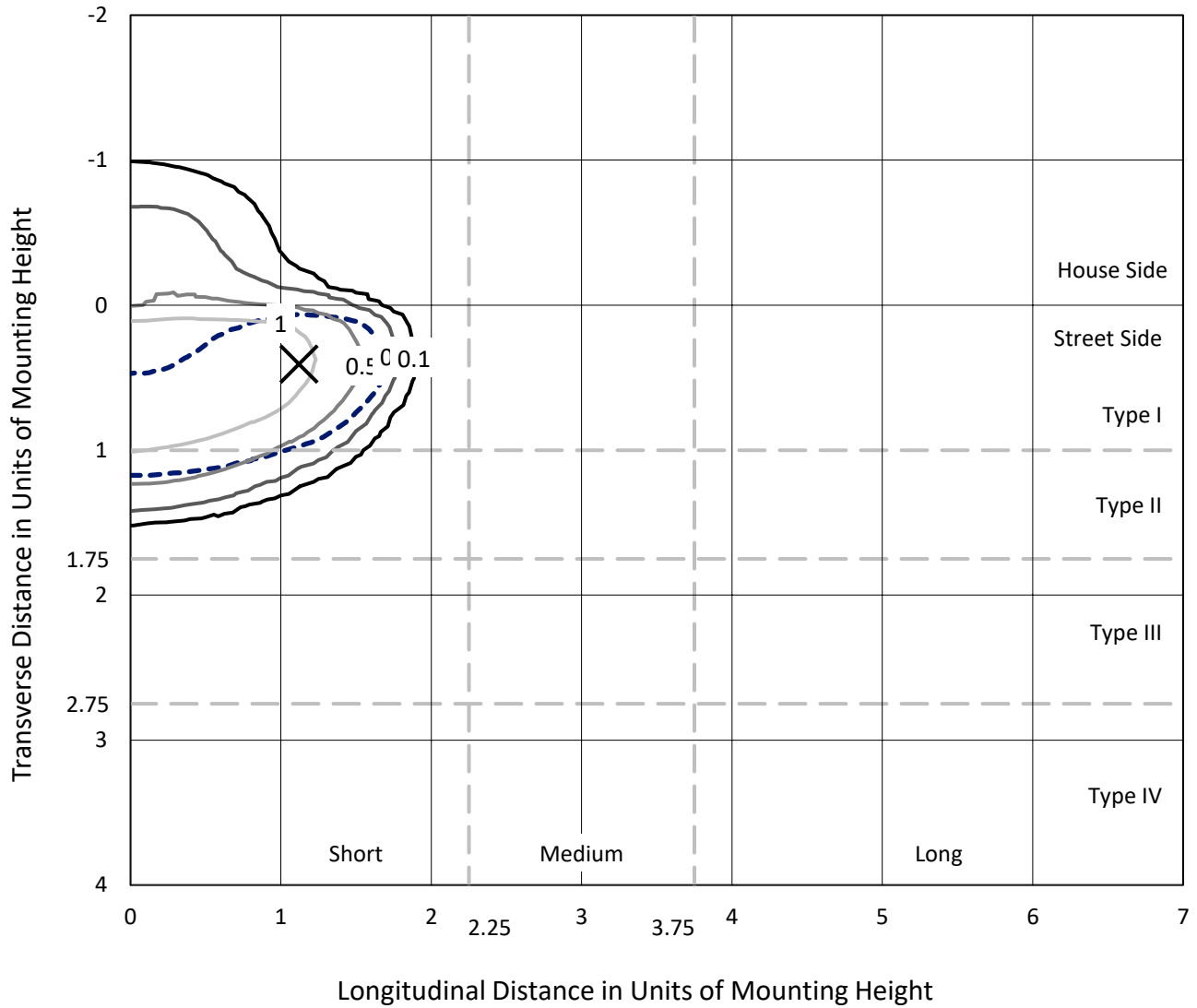
Input Watts (W): 33
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P526109
 CATALOG NUMBER: GALN-SA1A-735-U-T2R-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

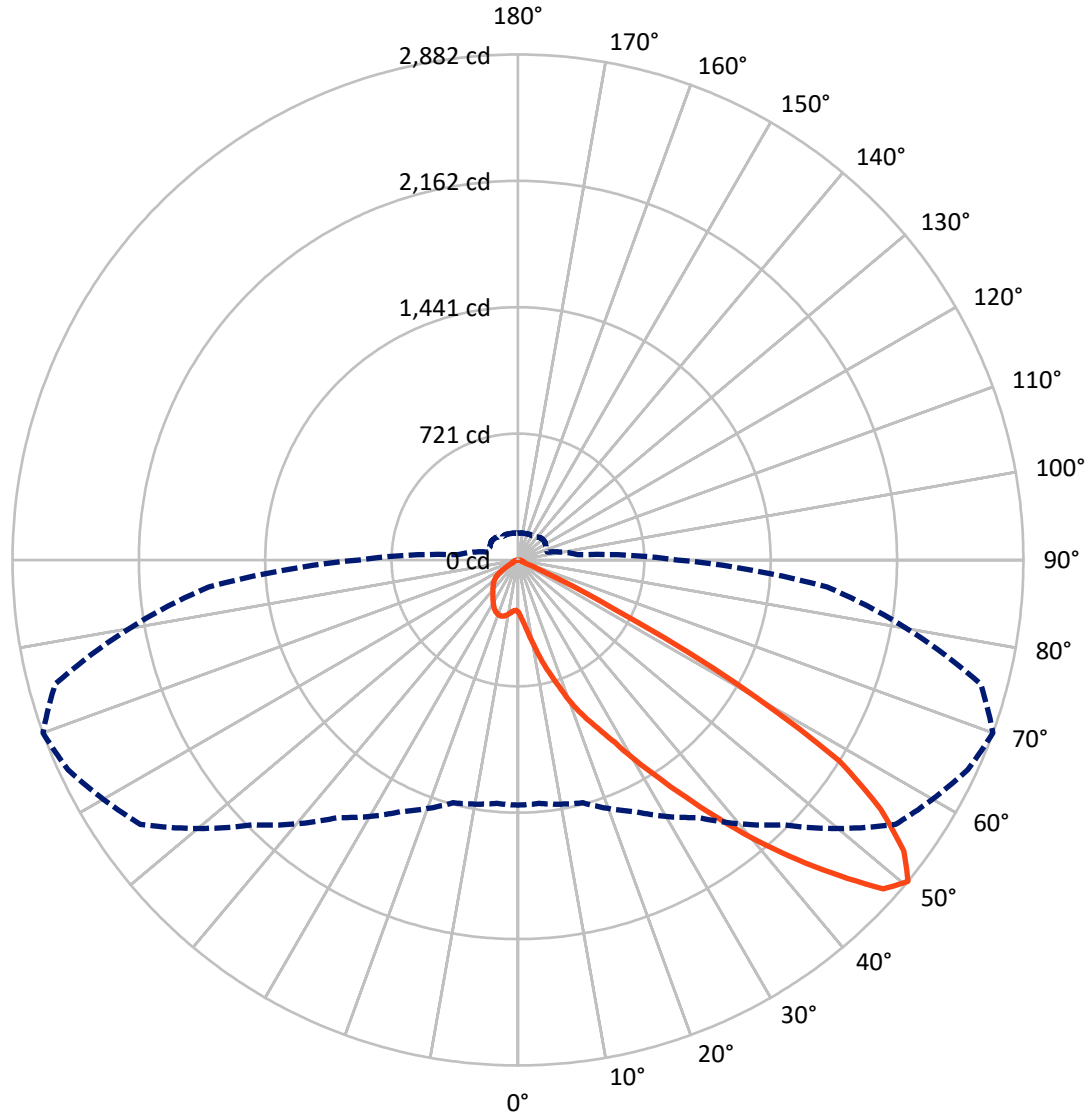
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.7 fc
 Type I - Short - N/A

REPORT NUMBER: P526109
CATALOG NUMBER: GALN-SA1A-735-U-T2R-GRSBK

Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

REPORT NUMBER: P526109

CATALOG NUMBER: GALN-SA1A-735-U-T2R-GRSBK

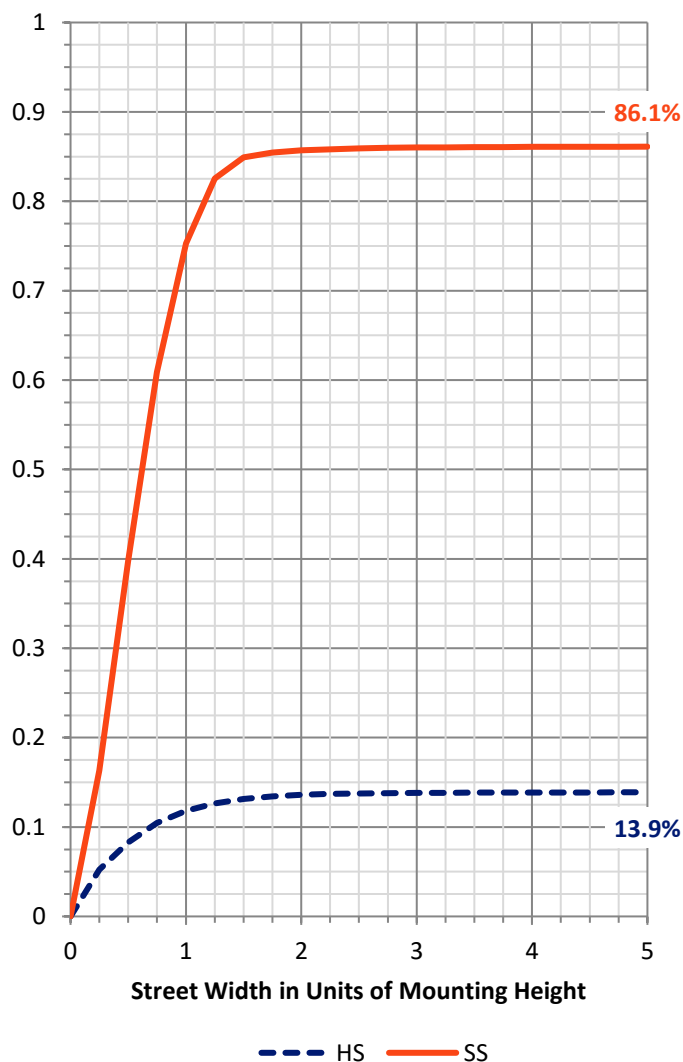
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	398.2	0.0	398.2
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	2452.8	0.0	2452.8
	% Fixture	86.0	0.0	86.0
Total	Lumens	2851.0	0.0	2851.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	38.4	1.3
10°-20°	166.1	5.8
20°-30°	348.5	12.2
30°-40°	600.6	21.1
40°-50°	877.8	30.8
50°-60°	683.7	24.0
60°-70°	115.8	4.1
70°-80°	15.9	0.6
80°-90°	4.1	0.1
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°	2851.0	100.0
0°-180°	2851.0	100.0

Coefficient of Utilization



REPORT NUMBER: P526109

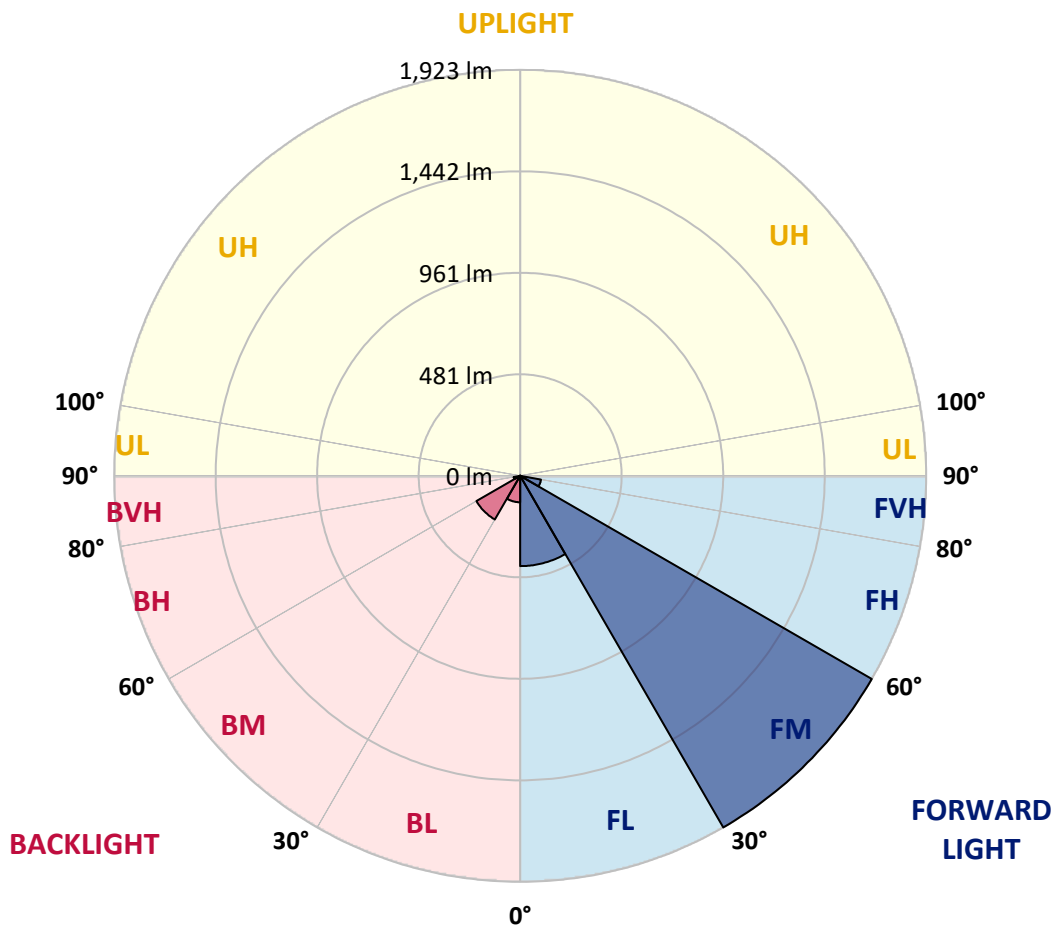
CATALOG NUMBER: GALN-SA1A-735-U-T2R-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	427.7	15.0			
FM (30°-60°)	1923.0	67.4			
FH (60°-80°)	100.3	3.5			G0/660
FVH (80°-90°)	1.9	0.1			G0/10
BL (0°-30°)	125.3	4.4	B1/500		
BM (30°-60°)	239.2	8.4	B1/1000		
BH (60°-80°)	31.4	1.1	B0/110		G0/110
BVH (80°-90°)	2.2	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G0

Type I Short





REPORT NUMBER: P526109

CATALOG NUMBER: GALN-SA1A-735-U-T2R-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	295.3	295.3	295.3	295.3	295.3	295.3	295.3	295.3	295.3	295.3	295.3
2.5°	386.7	383.9	377.8	366.6	361.9	350.6	344.1	331.4	323.4	314.5	304.7
5°	544.7	530.1	521.2	508.6	471.6	448.6	410.6	378.3	363.3	346.9	324.4
7.5°	707.8	698.4	686.2	659.1	633.7	585.9	520.8	449.5	419.1	390.9	346.4
10°	842.8	816.5	815.1	795.0	767.3	710.1	631.9	543.3	488.9	447.6	377.8
12.5°	937.0	913.1	923.9	921.5	895.8	843.3	752.8	635.6	578.9	514.7	410.1
15°	1022.8	1013.0	1009.7	1006.9	996.5	957.6	876.5	748.1	666.1	588.7	446.7
17.5°	1106.7	1081.4	1093.6	1095.9	1095.0	1059.8	983.9	855.0	758.4	667.0	485.1
20°	1181.2	1183.6	1167.2	1163.9	1161.1	1159.7	1085.6	960.9	871.9	749.0	535.3
22.5°	1276.9	1260.4	1275.0	1265.6	1247.3	1236.1	1179.4	1054.7	970.3	848.0	586.4
25°	1389.8	1402.9	1368.7	1365.0	1344.8	1305.9	1254.8	1159.7	1065.0	939.8	641.7
27.5°	1529.0	1506.1	1497.2	1476.5	1440.0	1423.6	1363.6	1267.9	1179.4	1036.4	695.1
30°	1648.6	1642.5	1597.9	1573.6	1541.7	1541.2	1457.3	1414.7	1328.4	1187.8	768.7
32.5°	1746.1	1719.3	1702.9	1686.1	1660.3	1667.3	1596.5	1574.0	1487.3	1328.4	855.5
35°	1811.2	1792.0	1782.2	1756.4	1748.9	1780.3	1750.8	1741.4	1670.1	1526.2	957.2
37.5°	1831.8	1837.9	1836.1	1803.7	1819.7	1904.5	1942.5	1918.1	1880.6	1734.8	1067.3
40°	1850.1	1854.3	1845.0	1882.9	1928.4	2025.0	2162.3	2122.0	2107.9	1946.2	1220.6
42.5°	1860.4	1857.2	1857.2	1922.8	1991.7	2185.7	2374.6	2347.9	2337.1	2171.2	1397.8
45°	1815.9	1784.0	1818.3	1907.3	2046.1	2265.0	2544.3	2581.4	2565.9	2438.9	1605.0
47.5°	1649.5	1669.2	1688.4	1807.5	1980.0	2240.6	2648.4	2774.5	2803.1	2663.9	1740.9
50°	1397.8	1393.6	1433.4	1583.4	1792.9	2135.6	2628.2	2830.3	2882.3	2731.4	1769.5
52.5°	1016.7	1047.6	1090.8	1239.8	1488.3	1863.7	2368.1	2686.4	2755.7	2648.4	1750.8
55°	592.0	557.8	654.8	780.9	1015.3	1405.8	2002.0	2381.2	2509.6	2497.5	1656.1
57.5°	237.2	229.7	263.0	354.4	529.7	871.4	1455.9	1956.5	2162.3	2287.5	1455.4
60°	104.1	101.7	119.5	144.4	216.6	401.7	796.4	1216.9	1431.5	1598.4	1001.7
62.5°	75.0	74.1	83.0	91.9	114.4	174.8	334.7	490.3	611.2	738.3	448.6
65°	60.5	62.8	68.9	73.6	84.4	97.0	118.1	136.4	167.3	173.4	98.9
67.5°	49.2	51.1	56.7	61.9	63.7	52.5	54.4	47.8	47.8	42.7	34.2
70°	36.1	36.6	43.1	49.2	39.4	21.1	37.0	37.0	33.3	31.9	29.1
72.5°	26.7	27.2	32.3	30.5	15.5	13.1	27.2	30.0	27.2	25.8	23.4
75°	19.7	20.2	16.9	7.0	6.6	8.4	15.9	20.6	19.7	19.2	17.8
77.5°	3.7	2.8	2.3	3.3	4.7	7.0	10.3	12.7	13.1	14.1	13.1
80°	0.5	0.5	1.4	2.8	5.2	7.5	10.8	12.2	12.7	13.1	12.2
82.5°	0.0	0.5	1.4	2.8	5.2	7.0	9.4	10.8	11.7	12.2	11.7
85°	0.0	0.5	0.9	2.3	4.2	5.2	4.7	3.3	2.8	3.3	2.3
87.5°	0.0	0.0	0.5	0.5	0.9	0.9	0.9	0.9	0.9	0.9	0.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P526109

CATALOG NUMBER: GALN-SA1A-735-U-T2R-GRSBK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	295.3	295.3	295.3	295.3	295.3	295.3	295.3	295.3	295.3	295.3	295.3
2.5°	299.1	297.2	290.6	283.6	277.5	280.3	277.5	275.2	276.1	275.2	274.2
5°	315.5	307.0	293.0	286.9	281.7	281.2	279.8	279.4	279.8	279.8	275.6
7.5°	330.9	317.3	302.3	295.8	289.7	290.2	286.9	286.9	286.4	284.1	283.1
10°	354.4	336.1	316.9	305.2	297.7	296.2	293.0	289.7	289.7	289.7	285.0
12.5°	380.1	357.2	330.9	317.3	308.4	301.4	296.2	295.3	290.2	289.2	286.9
15°	402.6	373.6	340.3	321.6	310.3	300.9	293.0	287.8	285.5	284.1	282.2
17.5°	424.7	387.6	345.5	321.6	309.4	298.6	290.2	285.5	279.8	280.8	277.0
20°	454.2	402.6	346.9	315.5	300.5	290.2	278.9	276.6	273.3	270.5	271.4
22.5°	482.8	413.4	342.7	308.0	286.4	274.2	268.6	265.8	264.4	262.0	258.7
25°	508.6	425.1	336.1	294.4	271.4	262.5	257.3	256.9	253.6	253.6	247.5
27.5°	534.8	429.4	324.8	278.4	258.3	253.1	250.8	249.8	248.4	245.2	240.9
30°	564.8	430.8	308.4	262.0	246.6	240.9	244.2	246.6	240.5	234.4	236.2
32.5°	589.7	427.5	288.7	246.6	238.1	235.3	241.9	244.2	237.2	230.6	227.3
35°	619.7	419.5	269.5	234.4	229.7	235.3	240.9	240.9	226.9	218.9	217.0
37.5°	665.1	410.6	251.7	224.1	220.8	232.5	240.0	234.8	212.8	203.0	200.6
40°	713.9	405.0	234.4	213.7	216.1	227.8	232.0	216.1	193.6	187.5	185.6
42.5°	784.7	393.7	218.9	204.8	211.9	221.2	221.2	192.7	184.2	180.9	180.5
45°	872.8	385.8	205.3	197.3	205.8	208.1	200.6	180.5	174.4	173.4	173.9
47.5°	915.9	370.3	191.2	188.4	194.5	195.0	175.3	170.6	165.5	164.1	163.1
50°	909.4	342.7	173.0	176.7	185.2	180.5	159.8	160.8	156.1	155.6	153.3
52.5°	863.4	299.1	154.7	163.6	173.0	159.4	147.2	146.2	146.2	140.2	137.8
55°	765.5	240.9	132.7	143.9	155.2	134.1	130.8	129.8	127.5	121.9	120.5
57.5°	606.1	176.7	99.8	112.0	131.7	113.9	113.4	109.2	103.1	98.9	98.9
60°	360.5	101.7	62.8	68.4	87.2	92.3	102.7	100.8	90.5	83.9	82.0
62.5°	164.5	52.5	39.8	40.8	46.9	60.0	80.6	93.3	78.7	67.5	66.6
65°	55.3	38.9	32.8	31.4	32.3	36.1	48.3	66.1	62.8	52.0	50.2
67.5°	33.7	34.7	30.9	28.6	28.6	28.1	27.7	30.0	37.0	36.1	36.6
70°	29.1	31.9	28.6	25.8	24.8	23.4	19.7	16.4	14.1	16.4	17.3
72.5°	23.4	25.3	24.4	22.0	19.7	17.8	14.1	10.8	8.0	7.0	7.0
75°	17.3	18.7	19.7	16.9	15.0	12.7	10.3	7.0	4.2	2.8	2.8
77.5°	12.7	14.1	14.5	13.1	11.2	8.9	6.6	4.7	2.3	0.9	0.9
80°	10.8	12.7	14.1	13.1	11.7	8.4	6.1	3.3	1.9	0.5	0.5
82.5°	10.3	12.7	14.1	12.7	11.2	8.0	6.1	3.7	1.4	0.5	0.5
85°	2.3	3.3	4.2	5.2	6.1	6.1	4.7	2.8	1.4	0.5	0.5
87.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.5	0.5	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)