

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: P526577

Luminaire Tested: **GALN-SA1C-735-U-T2R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P526577
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-SA1C-735-U-T2R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3500K, 1050mA 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: 4383 lumens
Efficiency: N/A
Efficacy: 76.9 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

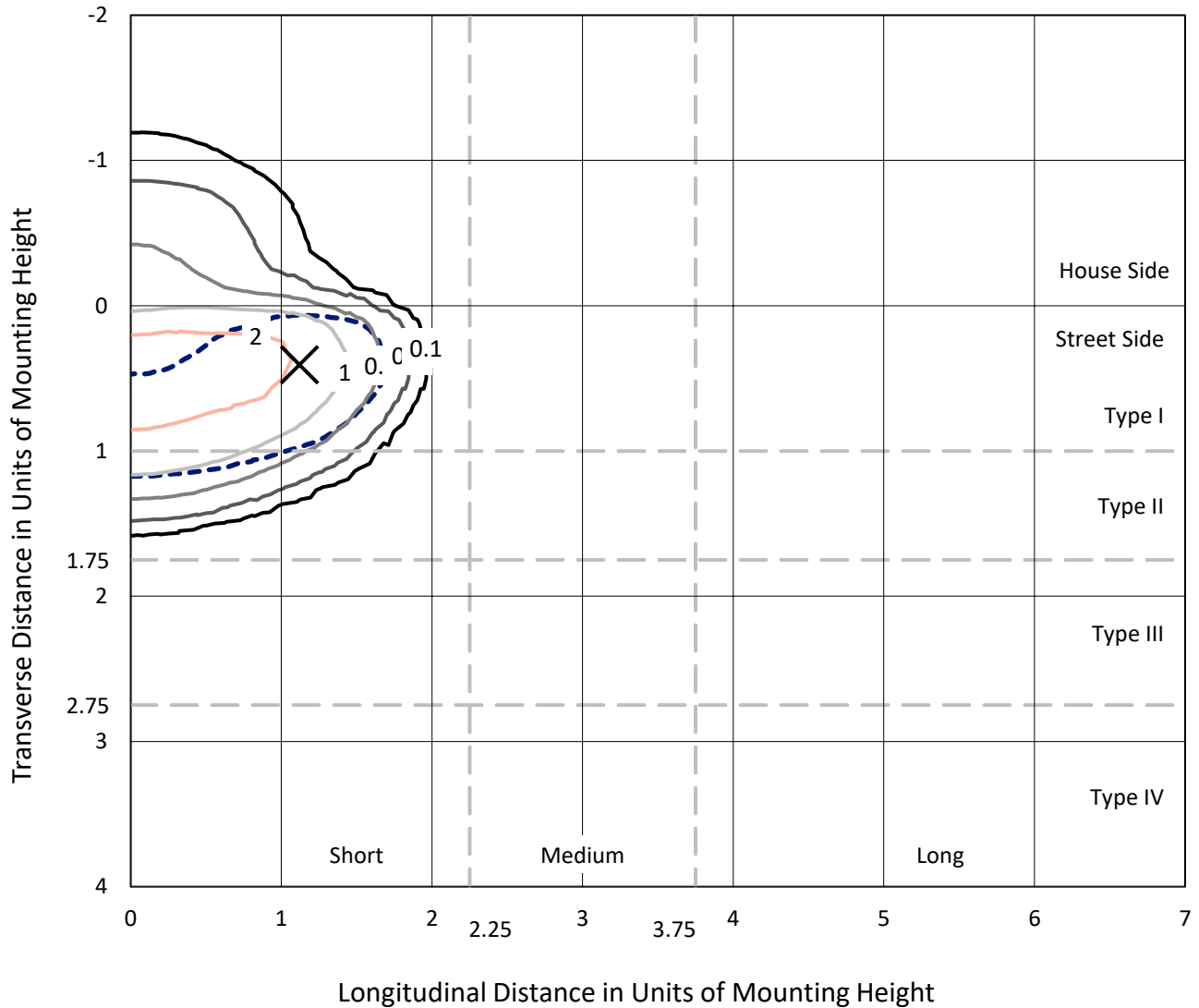
Input Watts (W): 57
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P526577
 CATALOG NUMBER: GALN-SA1C-735-U-T2R-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

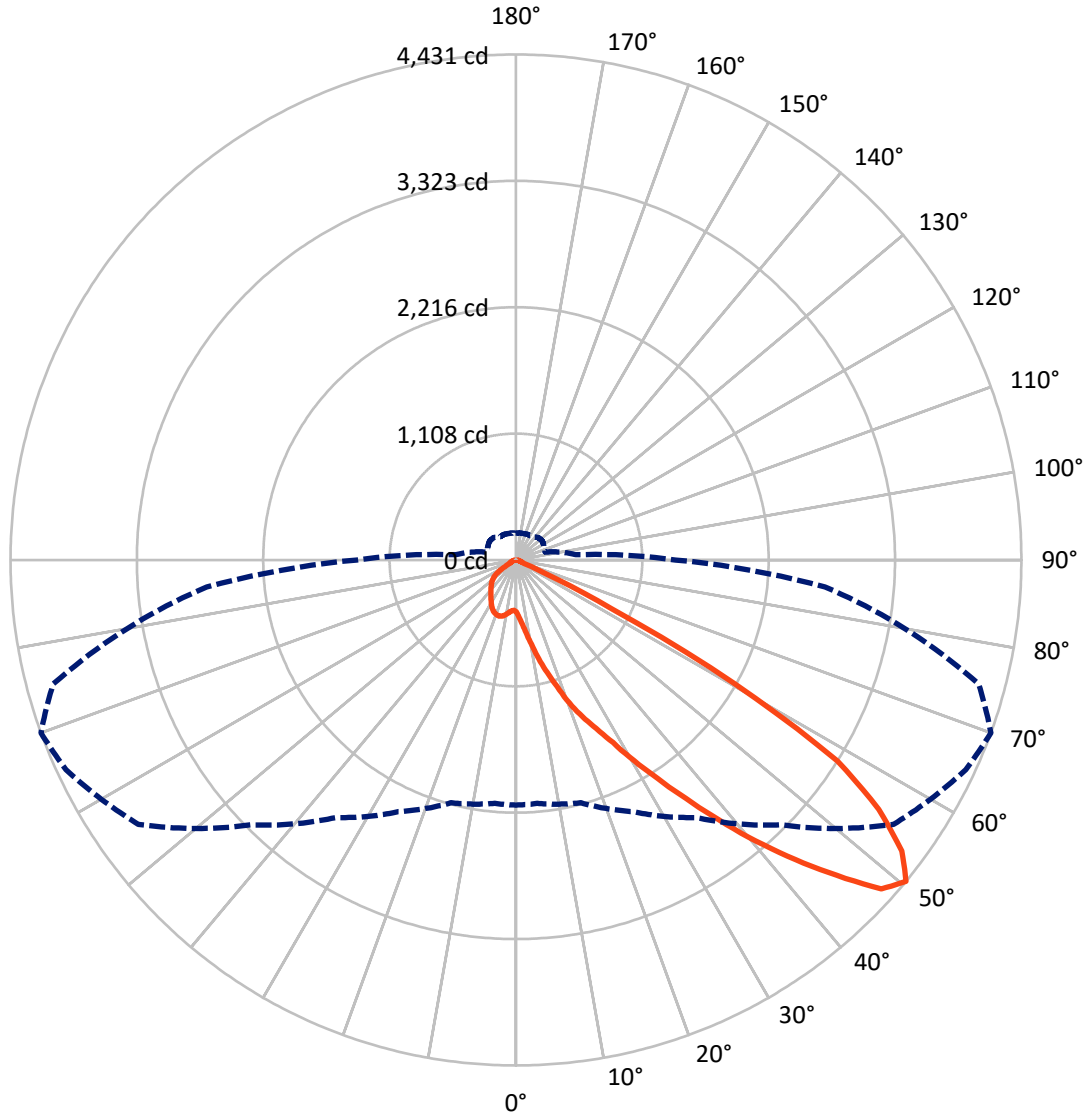
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.6 fc
 Type I - Short - N/A

REPORT NUMBER: P526577
CATALOG NUMBER: GALN-SA1C-735-U-T2R-GRSBK

Luminous Intensity Polar Plot



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

REPORT NUMBER: P526577
 CATALOG NUMBER: GALN-SA1C-735-U-T2R-GRSBK

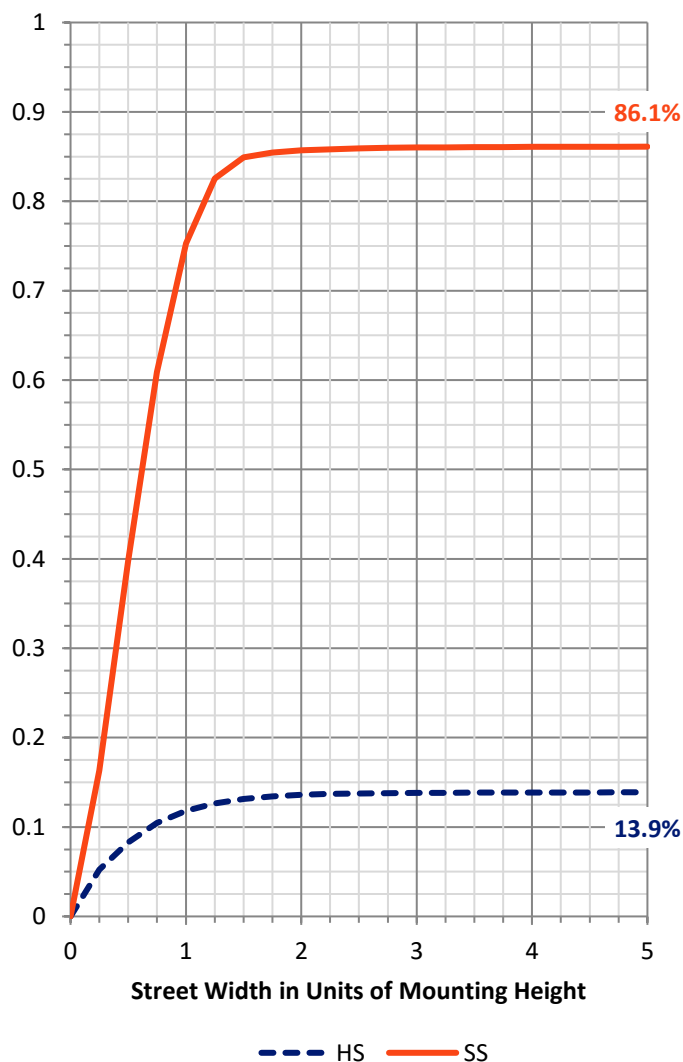
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	612.1	0.0	612.1
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	3770.9	0.0	3770.9
	% Fixture	86.0	0.0	86.0
Total	Lumens	4383.0	0.0	4383.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	59.0	1.3
10°-20°	255.4	5.8
20°-30°	535.7	12.2
30°-40°	923.4	21.1
40°-50°	1349.5	30.8
50°-60°	1051.1	24.0
60°-70°	178.1	4.1
70°-80°	24.5	0.6
80°-90°	6.3	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°	4383.0	100.0
0°-180°	4383.0	100.0

Coefficient of Utilization



REPORT NUMBER: P526577

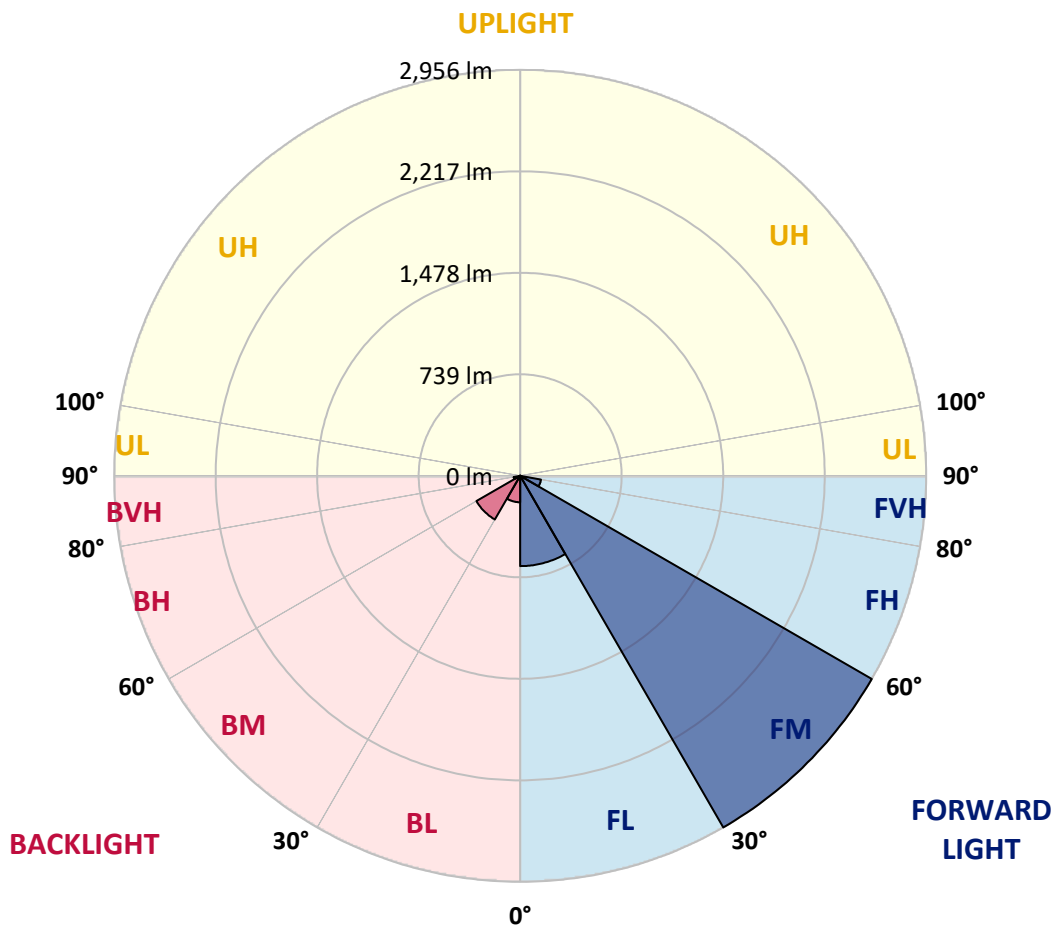
CATALOG NUMBER: GALN-SA1C-735-U-T2R-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	657.5	15.0			
FM (30°-60°)	2956.3	67.4			
FH (60°-80°)	154.2	3.5			G0/660
FVH (80°-90°)	2.9	0.1			G0/10
BL (0°-30°)	192.6	4.4	B1/500		
BM (30°-60°)	367.7	8.4	B1/1000		
BH (60°-80°)	48.4	1.1	B0/110		G0/110
BVH (80°-90°)	3.4	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: P526577

CATALOG NUMBER: GALN-SA1C-735-U-T2R-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	454.0	454.0	454.0	454.0	454.0	454.0	454.0	454.0	454.0	454.0	454.0
2.5°	594.5	590.2	580.8	563.5	556.3	539.0	528.9	509.5	497.2	483.5	468.4
5°	837.4	815.0	801.3	781.9	724.9	689.6	631.3	581.5	558.5	533.3	498.7
7.5°	1088.1	1073.7	1055.0	1013.2	974.3	900.8	800.6	691.1	644.2	601.0	532.5
10°	1295.7	1255.3	1253.2	1222.2	1179.7	1091.7	971.4	835.2	751.6	688.2	580.8
12.5°	1440.5	1403.8	1420.3	1416.7	1377.1	1296.4	1157.3	977.2	890.0	791.2	630.5
15°	1572.4	1557.3	1552.2	1547.9	1532.0	1472.2	1347.6	1150.1	1024.0	905.1	686.8
17.5°	1701.4	1662.5	1681.2	1684.8	1683.4	1629.3	1512.6	1314.4	1166.0	1025.4	745.8
20°	1816.0	1819.6	1794.4	1789.3	1785.0	1782.8	1669.0	1477.3	1340.4	1151.6	823.0
22.5°	1963.0	1937.8	1960.1	1945.7	1917.6	1900.3	1813.1	1621.4	1491.7	1303.6	901.5
25°	2136.6	2156.8	2104.2	2098.5	2067.5	2007.7	1929.1	1782.8	1637.3	1444.8	986.5
27.5°	2350.7	2315.4	2301.7	2270.0	2213.8	2188.5	2096.3	1949.3	1813.1	1593.3	1068.7
30°	2534.4	2525.1	2456.6	2419.1	2370.1	2369.4	2240.4	2174.8	2042.2	1826.1	1181.8
32.5°	2684.3	2643.2	2618.0	2592.1	2552.4	2563.3	2454.4	2419.9	2286.5	2042.2	1315.1
35°	2784.5	2754.9	2739.8	2700.2	2688.6	2736.9	2691.5	2677.1	2567.6	2346.3	1471.5
37.5°	2816.2	2825.6	2822.7	2773.0	2797.5	2927.9	2986.3	2948.8	2891.1	2667.0	1640.9
40°	2844.3	2850.8	2836.4	2894.7	2964.6	3113.1	3324.2	3262.3	3240.6	2992.0	1876.5
42.5°	2860.2	2855.1	2855.1	2956.0	3061.9	3360.3	3650.7	3609.6	3593.0	3337.9	2148.9
45°	2791.7	2742.7	2795.3	2932.2	3145.5	3482.1	3911.5	3968.5	3944.7	3749.4	2467.4
47.5°	2535.9	2566.1	2595.7	2778.7	3043.9	3444.6	4071.5	4265.4	4309.3	4095.3	2676.4
50°	2148.9	2142.4	2203.7	2434.3	2756.4	3283.2	4040.5	4351.1	4431.1	4199.1	2720.4
52.5°	1563.0	1610.6	1676.9	1906.0	2288.0	2865.2	3640.6	4129.9	4236.5	4071.5	2691.5
55°	910.1	857.5	1006.7	1200.6	1560.9	2161.1	3077.8	3660.8	3858.2	3839.5	2546.0
57.5°	364.6	353.1	404.3	544.8	814.3	1339.6	2238.3	3007.9	3324.2	3516.6	2237.5
60°	160.0	156.4	183.8	222.0	332.9	617.6	1224.3	1870.7	2200.8	2457.3	1540.0
62.5°	115.3	113.9	127.6	141.2	175.8	268.8	514.5	753.8	939.7	1135.0	689.6
65°	93.0	96.6	105.9	113.1	129.7	149.2	181.6	209.7	257.3	266.6	152.1
67.5°	75.7	78.5	87.2	95.1	98.0	80.7	83.6	73.5	73.5	65.6	52.6
70°	55.5	56.2	66.3	75.7	60.5	32.4	56.9	56.9	51.2	49.0	44.7
72.5°	41.1	41.8	49.7	46.8	23.8	20.2	41.8	46.1	41.8	39.6	36.0
75°	30.3	31.0	25.9	10.8	10.1	13.0	24.5	31.7	30.3	29.5	27.4
77.5°	5.8	4.3	3.6	5.0	7.2	10.8	15.9	19.5	20.2	21.6	20.2
80°	0.7	0.7	2.2	4.3	7.9	11.5	16.6	18.7	19.5	20.2	18.7
82.5°	0.0	0.7	2.2	4.3	7.9	10.8	14.4	16.6	18.0	18.7	18.0
85°	0.0	0.7	1.4	3.6	6.5	7.9	7.2	5.0	4.3	5.0	3.6
87.5°	0.0	0.0	0.7	0.7	1.4	1.4	1.4	1.4	1.4	1.4	1.4
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: P526577

CATALOG NUMBER: GALN-SA1C-735-U-T2R-GRSBK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	454.0	454.0	454.0	454.0	454.0	454.0	454.0	454.0	454.0	454.0	454.0
2.5°	459.8	456.9	446.8	436.0	426.6	430.9	426.6	423.0	424.4	423.0	421.6
5°	485.0	472.0	450.4	441.0	433.1	432.4	430.2	429.5	430.2	430.2	423.7
7.5°	508.8	487.9	464.8	454.7	445.3	446.1	441.0	441.0	440.3	436.7	435.3
10°	544.8	516.7	487.1	469.1	457.6	455.4	450.4	445.3	445.3	445.3	438.1
12.5°	584.4	549.1	508.8	487.9	474.2	463.4	455.4	454.0	446.1	444.6	441.0
15°	619.0	574.3	523.2	494.3	477.1	462.6	450.4	442.5	438.9	436.7	433.8
17.5°	652.9	596.0	531.1	494.3	475.6	459.0	446.1	438.9	430.2	431.7	425.9
20°	698.3	619.0	533.3	485.0	461.9	446.1	428.8	425.2	420.1	415.8	417.2
22.5°	742.2	635.6	526.8	473.4	440.3	421.6	412.9	408.6	406.4	402.8	397.8
25°	781.9	653.6	516.7	452.6	417.2	403.5	395.6	394.9	389.9	389.9	380.5
27.5°	822.2	660.1	499.4	428.1	397.1	389.1	385.5	384.1	381.9	376.9	370.4
30°	868.4	662.3	474.2	402.8	379.0	370.4	375.4	379.0	369.7	360.3	363.2
32.5°	906.5	657.2	443.9	379.0	366.1	361.8	371.8	375.4	364.6	354.5	349.5
35°	952.7	645.0	414.4	360.3	353.1	361.8	370.4	370.4	348.8	336.5	333.6
37.5°	1022.6	631.3	387.0	344.5	339.4	357.4	369.0	361.0	327.2	312.0	308.4
40°	1097.5	622.6	360.3	328.6	332.2	350.2	356.7	332.2	297.6	288.2	285.4
42.5°	1206.3	605.3	336.5	314.9	325.7	340.1	340.1	296.2	283.2	278.2	277.4
45°	1341.8	593.1	315.6	303.4	316.4	320.0	308.4	277.4	268.1	266.6	267.4
47.5°	1408.1	569.3	294.0	289.7	299.1	299.8	269.5	262.3	254.4	252.2	250.8
50°	1398.0	526.8	265.9	271.7	284.6	277.4	245.7	247.2	240.0	239.2	235.6
52.5°	1327.4	459.8	237.8	251.5	265.9	245.0	226.3	224.8	224.8	215.5	211.9
55°	1176.8	370.4	203.9	221.2	238.5	206.1	201.1	199.6	196.0	187.4	185.2
57.5°	931.8	271.7	153.5	172.2	202.5	175.1	174.4	167.9	158.5	152.1	152.1
60°	554.2	156.4	96.6	105.2	134.0	142.0	157.8	154.9	139.1	129.0	126.1
62.5°	252.9	80.7	61.3	62.7	72.1	92.2	123.9	143.4	121.1	103.8	102.3
65°	85.0	59.8	50.4	48.3	49.7	55.5	74.2	101.6	96.6	80.0	77.1
67.5°	51.9	53.3	47.6	44.0	44.0	43.2	42.5	46.1	56.9	55.5	56.2
70°	44.7	49.0	44.0	39.6	38.2	36.0	30.3	25.2	21.6	25.2	26.7
72.5°	36.0	38.9	37.5	33.9	30.3	27.4	21.6	16.6	12.3	10.8	10.8
75°	26.7	28.8	30.3	25.9	23.1	19.5	15.9	10.8	6.5	4.3	4.3
77.5°	19.5	21.6	22.3	20.2	17.3	13.7	10.1	7.2	3.6	1.4	1.4
80°	16.6	19.5	21.6	20.2	18.0	13.0	9.4	5.0	2.9	0.7	0.7
82.5°	15.9	19.5	21.6	19.5	17.3	12.3	9.4	5.8	2.2	0.7	0.7
85°	3.6	5.0	6.5	7.9	9.4	9.4	7.2	4.3	2.2	0.7	0.7
87.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	0.7	0.7	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)