

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: P458621

Luminaire Tested: **GALN-SA1D-735-U-T3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458621
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-SA1D-735-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3500K, 1200mA 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: 5354 lumens
Efficiency: N/A
Efficacy: 82.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G1

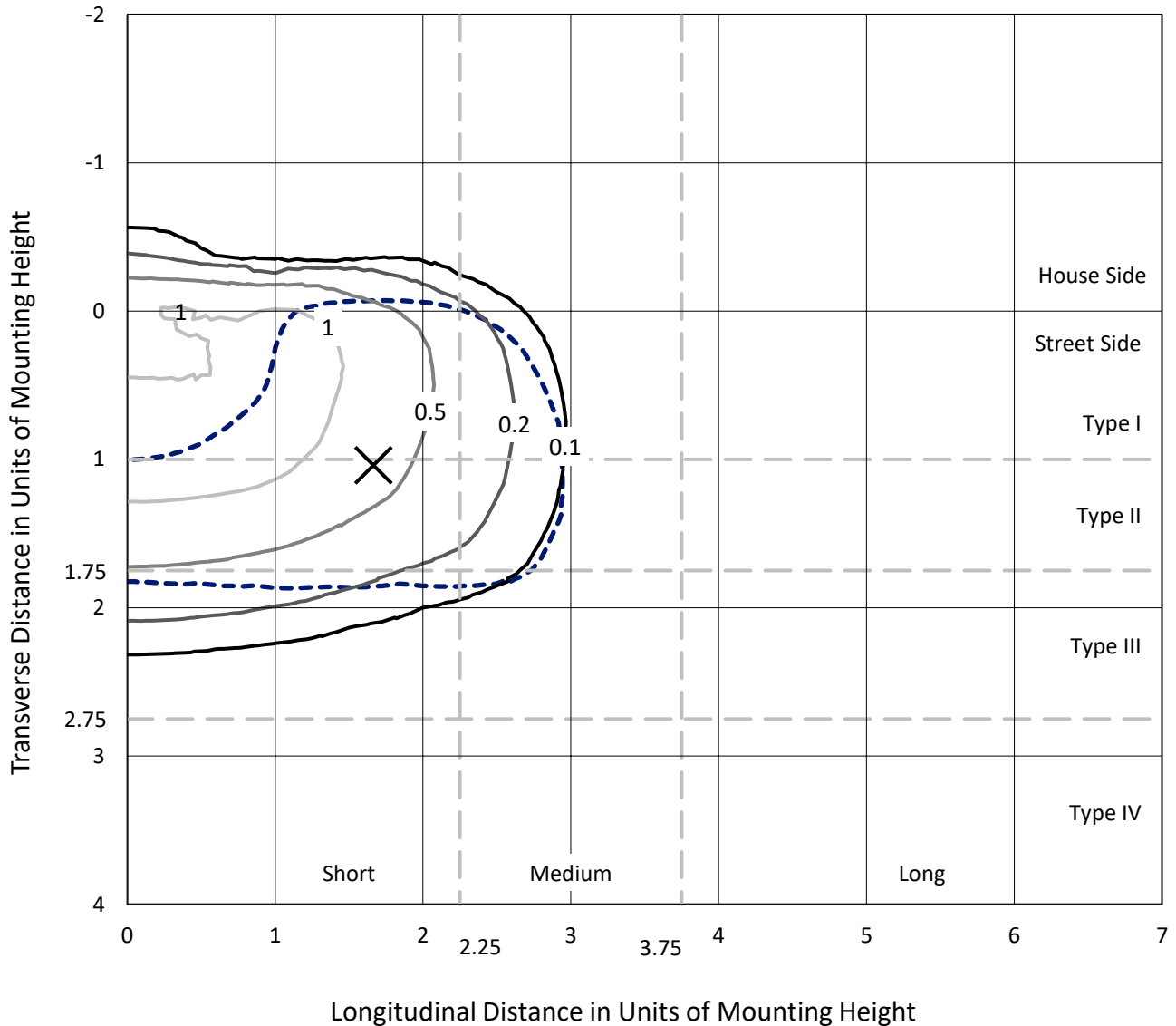
Input Watts (W): 65
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P458621
 CATALOG NUMBER: GALN-SA1D-735-U-T3-HSS

Iso-Footcandle Lines of Horizontal Illumination

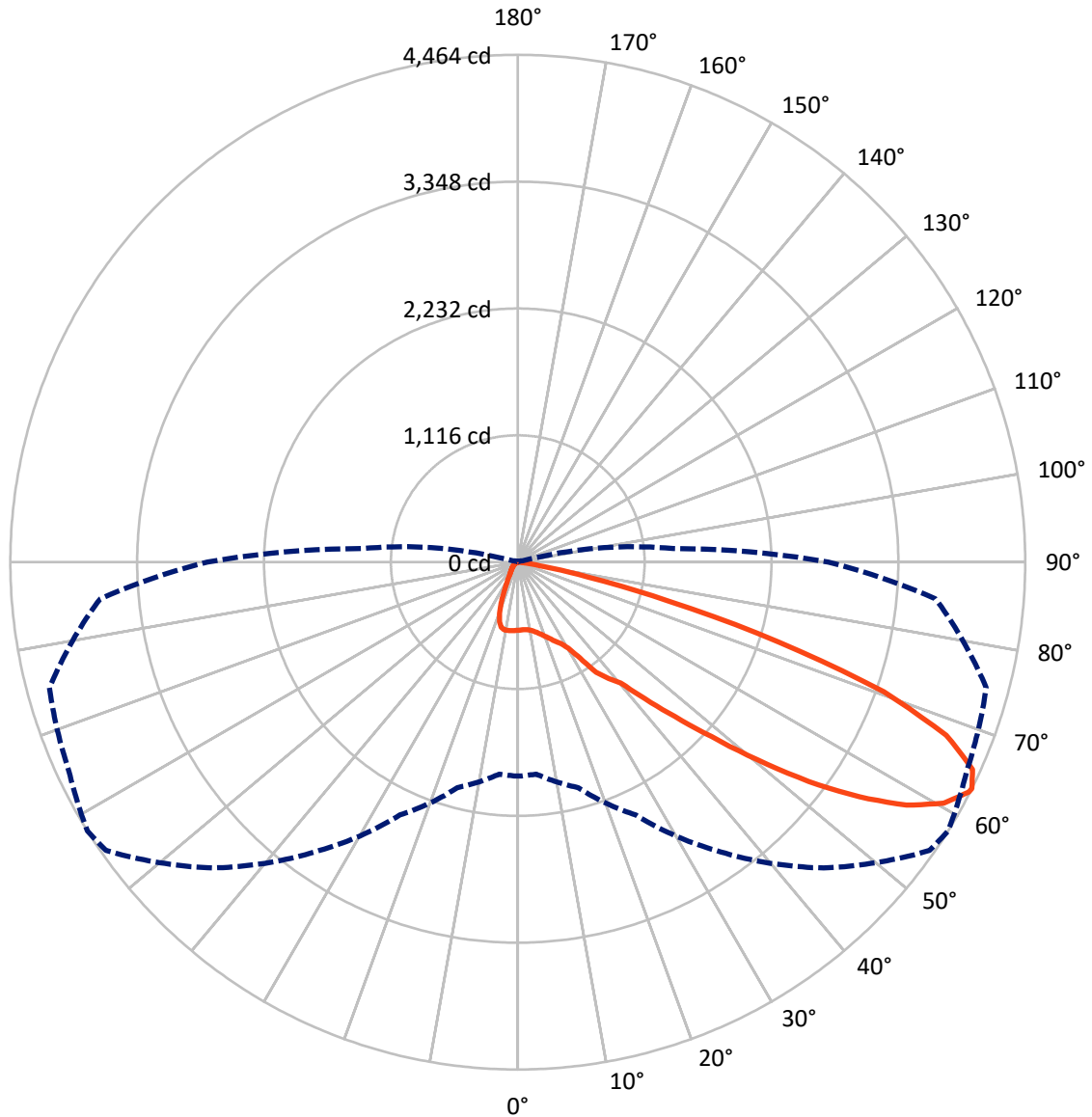
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.3 fc
 Type III - Short - N/A

REPORT NUMBER: P458621
CATALOG NUMBER: GALN-SA1D-735-U-T3-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P458621

CATALOG NUMBER: GALN-SA1D-735-U-T3-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	554.4	0.0	554.4
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	4799.6	0.0	4799.6
	% Fixture	89.6	0.0	89.6
Total	Lumens	5354.0	0.0	5354.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	56.1	1.0
10°-20°	152.8	2.9
20°-30°	265.2	5.0
30°-40°	487.4	9.1
40°-50°	917.5	17.1
50°-60°	1569.4	29.3
60°-70°	1502.7	28.1
70°-80°	383.2	7.2
80°-90°	19.6	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°	5354.0	100.0
0°-180°	5354.0	100.0

Coefficient of Utilization



REPORT NUMBER: P458621

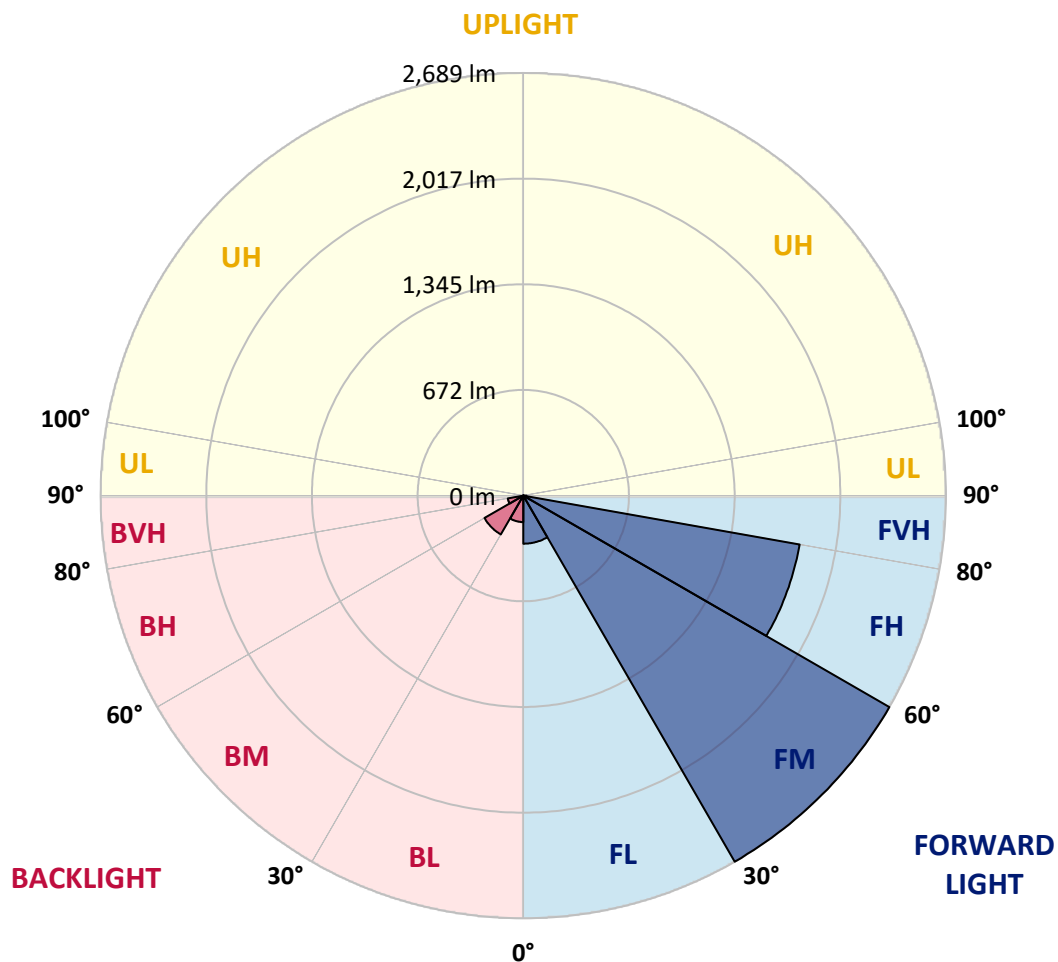
CATALOG NUMBER: GALN-SA1D-735-U-T3-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	306.1	5.7			
FM (30°-60°)	2689.2	50.2			
FH (60°-80°)	1785.5	33.3			G1/1800
FVH (80°-90°)	18.8	0.4			G1/100
BL (0°-30°)	168.1	3.1	B1/500		
BM (30°-60°)	285.1	5.3	B1/1000		
BH (60°-80°)	100.3	1.9	B0/110		G0/110
BVH (80°-90°)	0.8	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type III Short





REPORT NUMBER: P458621

CATALOG NUMBER: GALN-SA1D-735-U-T3-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	599.4	599.4	599.4	599.4	599.4	599.4	599.4	599.4	599.4	599.4	599.4
2.5°	584.5	586.5	588.5	589.3	592.1	595.0	597.0	596.6	599.8	601.4	601.4
5°	561.1	561.1	566.3	571.2	579.2	587.3	595.0	596.6	602.6	608.3	610.3
7.5°	541.4	542.6	546.6	555.5	566.3	580.5	595.8	599.4	609.9	622.4	627.6
10°	532.1	532.9	538.1	547.4	561.1	580.5	601.8	608.7	624.8	644.5	651.8
12.5°	530.1	531.3	536.5	547.0	562.7	586.1	615.1	622.4	645.8	671.2	682.0
15°	533.7	534.5	539.7	551.0	568.4	596.2	632.9	642.9	670.7	700.2	714.3
17.5°	546.6	545.8	549.4	558.7	578.0	608.7	654.2	666.3	699.0	739.3	748.5
20°	601.4	596.2	593.0	584.9	592.5	626.4	680.0	697.8	738.1	779.2	785.6
22.5°	719.5	707.8	684.9	653.4	629.2	650.6	711.1	731.6	783.6	823.9	823.9
25°	869.9	855.0	832.0	763.5	704.2	690.5	746.1	771.9	833.2	873.9	860.6
27.5°	1058.1	1046.4	1001.7	921.9	831.2	760.2	786.8	810.6	877.1	926.3	898.5
30°	1211.3	1205.7	1169.0	1097.6	997.7	894.1	862.6	878.3	935.6	992.4	963.8
32.5°	1340.7	1340.7	1303.2	1236.7	1143.2	1051.3	991.2	1002.5	1057.3	1123.0	1069.8
35°	1483.0	1478.1	1447.9	1384.6	1279.8	1198.8	1174.2	1189.5	1239.1	1287.9	1156.9
37.5°	1632.5	1630.9	1599.5	1538.2	1452.8	1350.8	1293.1	1297.2	1322.6	1352.4	1258.9
40°	1795.0	1797.4	1756.3	1718.4	1637.8	1533.4	1422.9	1397.5	1421.3	1505.6	1447.1
42.5°	1986.9	1981.2	1963.5	1911.9	1847.0	1784.5	1651.9	1642.6	1663.6	1753.9	1690.6
45°	2209.8	2217.8	2187.2	2158.6	2115.0	2063.0	1952.2	1936.1	1959.0	2099.3	2009.4
47.5°	2433.1	2425.4	2445.2	2439.9	2463.3	2424.6	2326.7	2293.6	2348.8	2481.9	2349.6
50°	2603.2	2611.6	2652.8	2712.8	2813.2	2835.0	2741.0	2729.8	2754.3	2839.8	2654.0
52.5°	2713.6	2741.8	2806.3	2960.7	3141.7	3282.4	3211.0	3205.0	3194.9	3217.9	2945.0
55°	2785.8	2814.4	2898.7	3126.0	3437.6	3666.1	3669.8	3644.0	3577.5	3560.9	3217.1
57.5°	2741.4	2747.1	2867.2	3171.1	3601.6	3939.8	4058.4	4032.6	3909.6	3847.1	3457.3
60°	2464.1	2475.8	2643.1	3000.2	3530.3	4029.3	4315.9	4304.2	4169.6	4099.1	3644.4
62.5°	1972.7	2006.6	2178.7	2577.0	3198.6	3878.6	4420.3	4453.4	4348.6	4251.4	3703.2
63°	1882.4	1871.6	2053.4	2453.6	3110.7	3804.0	4421.9	4463.9	4356.6	4265.9	3687.1
65°	1393.5	1426.1	1544.3	1934.9	2588.7	3456.9	4322.4	4396.5	4326.8	4201.9	3508.5
67.5°	782.4	780.8	911.4	1266.1	1811.9	2711.6	3908.4	4065.2	4050.7	3770.5	2908.3
70°	382.9	389.0	442.6	656.2	1050.9	1870.8	3247.7	3417.0	3422.3	2961.5	2011.0
72.5°	173.3	176.2	214.4	319.7	540.1	996.0	2238.0	2399.6	2369.8	1887.3	1110.5
75°	91.5	97.5	118.1	160.8	260.4	410.8	1217.3	1373.7	1311.3	862.2	408.7
77.5°	67.7	69.7	80.2	102.4	139.5	160.0	525.2	624.8	585.3	312.0	135.4
80°	49.6	51.2	59.7	72.6	87.9	81.4	197.9	226.9	203.6	106.0	41.5
82.5°	30.2	30.6	43.5	54.0	55.2	45.5	65.3	70.1	73.4	59.7	22.6
85°	10.9	13.7	29.4	39.1	32.7	23.0	27.4	30.2	33.1	37.9	13.3
87.5°	1.2	1.6	14.1	18.9	9.3	8.5	10.1	11.3	12.1	14.1	6.4
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: P458621
 CATALOG NUMBER: GALN-SA1D-735-U-T3-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	599.4	599.4	599.4	599.4	599.4	599.4	599.4	599.4	599.4	599.4	599.4
2.5°	603.0	604.6	603.4	601.4	601.0	599.8	597.4	597.4	597.4	598.2	597.4
5°	611.9	613.1	610.3	606.3	601.8	596.2	590.1	586.5	586.1	585.3	583.3
7.5°	628.8	630.4	624.0	614.3	602.2	588.5	575.6	563.5	557.9	553.4	553.4
10°	653.4	655.0	642.1	624.8	600.6	572.8	542.2	514.3	492.6	482.5	480.1
12.5°	682.8	683.6	662.3	632.1	592.1	538.5	473.2	412.4	370.0	350.7	348.7
15°	715.1	709.4	681.2	634.9	568.0	468.0	355.1	280.6	236.6	223.7	228.6
17.5°	747.7	737.3	695.7	630.4	513.5	355.1	238.6	191.5	177.8	174.1	174.1
20°	778.4	763.9	706.2	611.1	419.2	244.7	177.0	165.7	163.3	160.8	161.2
22.5°	809.0	786.8	715.5	568.0	312.4	174.9	158.4	154.8	151.6	148.3	147.9
25°	838.8	808.2	719.1	488.1	212.8	150.4	144.7	139.9	133.4	129.8	129.0
27.5°	869.9	834.0	716.7	387.4	155.2	134.6	129.0	122.1	114.5	108.0	108.0
30°	929.5	883.2	708.2	278.5	130.6	118.5	111.3	100.4	91.9	85.5	85.1
32.5°	1011.0	947.3	679.2	195.9	116.1	104.4	93.5	81.4	72.6	67.7	67.7
35°	1083.5	1011.8	624.8	144.3	104.4	90.7	77.4	65.7	58.9	55.6	54.4
37.5°	1194.0	1106.1	549.8	117.3	93.1	78.6	64.9	54.0	48.4	46.0	46.0
40°	1359.6	1221.4	457.9	102.8	82.2	66.9	54.0	45.5	41.1	38.3	38.3
42.5°	1565.2	1362.5	364.8	92.3	72.2	57.6	45.1	38.7	34.7	32.7	32.2
45°	1824.0	1511.2	281.0	82.6	64.1	49.2	38.3	32.7	28.6	27.4	27.8
47.5°	2094.1	1642.2	217.7	74.2	55.6	41.5	32.7	28.2	25.4	23.8	23.8
50°	2324.6	1732.5	165.3	64.5	49.2	35.1	28.6	25.4	23.0	22.2	21.8
52.5°	2517.3	1758.7	126.6	56.0	43.1	30.2	25.4	23.0	21.0	19.8	19.8
55°	2681.4	1735.7	99.2	47.2	36.3	26.2	22.6	20.6	18.1	16.9	16.5
57.5°	2777.3	1662.0	75.8	39.1	29.4	21.8	19.8	17.3	14.5	12.5	12.5
60°	2825.7	1554.7	58.0	32.2	22.6	17.3	16.1	12.9	10.1	8.5	8.1
62.5°	2767.6	1412.4	43.9	25.4	16.9	12.9	10.9	9.3	6.4	4.8	4.8
63°	2731.8	1371.3	42.3	24.2	15.7	12.1	10.1	8.5	5.6	4.4	4.0
65°	2490.3	1191.9	34.7	19.3	12.5	8.5	6.9	6.0	4.0	2.0	1.6
67.5°	1977.6	911.8	27.4	14.5	8.9	6.0	4.0	3.6	1.2	0.0	0.0
70°	1337.1	588.9	21.4	10.5	6.0	3.6	2.0	1.6	0.4	0.0	0.0
72.5°	697.4	301.9	16.5	7.7	3.6	2.4	1.2	0.4	0.0	0.0	0.0
75°	246.7	102.8	12.1	4.8	2.4	1.2	0.4	0.0	0.0	0.0	0.0
77.5°	74.6	38.3	7.7	3.6	1.6	0.8	0.0	0.0	0.0	0.0	0.0
80°	26.2	14.1	4.4	2.4	1.2	0.4	0.0	0.0	0.0	0.0	0.0
82.5°	12.9	6.9	2.8	2.0	1.2	0.4	0.0	0.0	0.0	0.0	0.0
85°	7.3	4.4	2.4	2.0	1.2	0.8	0.0	0.0	0.0	0.0	0.0
87.5°	5.2	3.2	2.4	2.0	1.6	0.8	0.4	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)