

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: P458800

Luminaire Tested: **GALN-SA3B-735-U-T4FT**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458800
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-28)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3B-735-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15789 lumens
Efficiency: N/A
Efficacy: 130.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

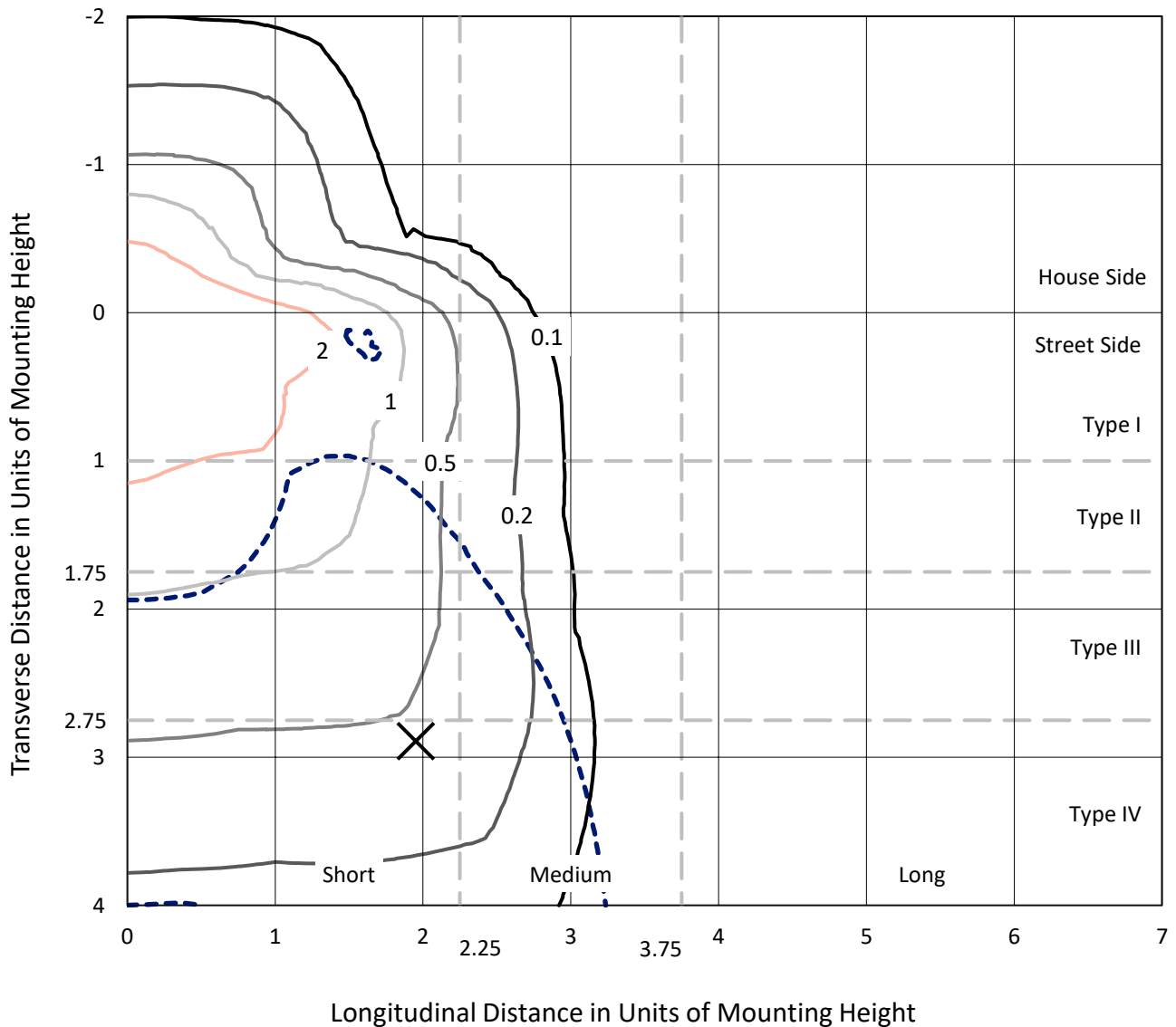
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P458800
 CATALOG NUMBER: GALN-SA3B-735-U-T4FT

Iso-Footcandle Lines of Horizontal Illumination

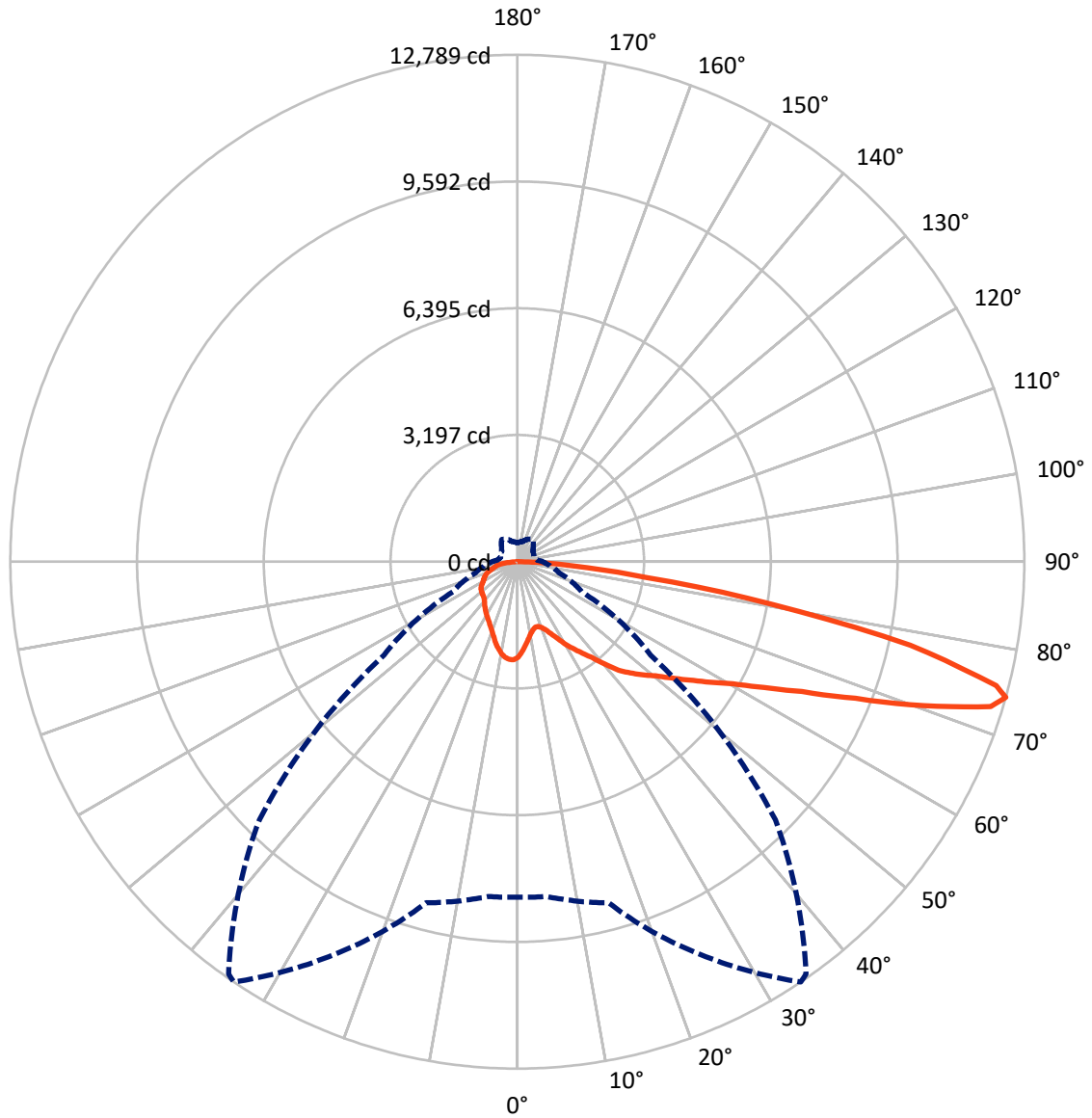
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.9 fc
 Type IV - Short - N/A

REPORT NUMBER: P458800
CATALOG NUMBER: GALN-SA3B-735-U-T4FT

Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral - - - Horizontal Cone Through 74-Deg Vertical

REPORT NUMBER: P458800

CATALOG NUMBER: GALN-SA3B-735-U-T4FT

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3360.0	0.0	3360.0
	% Fixture	21.3	0.0	21.3
Street Side	Lumens	12429.0	0.0	12429.0
	% Fixture	78.7	0.0	78.7
Total	Lumens	15789.0	0.0	15789.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	219.2	1.4
10°-20°	600.2	3.8
20°-30°	989.5	6.3
30°-40°	1482.2	9.4
40°-50°	2154.7	13.6
50°-60°	3009.6	19.1
60°-70°	3767.8	23.9
70°-80°	3115.7	19.7
80°-90°	450.2	2.9
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°	15789.0	100.0
0°-180°	15789.0	100.0

Coefficient of Utilization



REPORT NUMBER: P458800

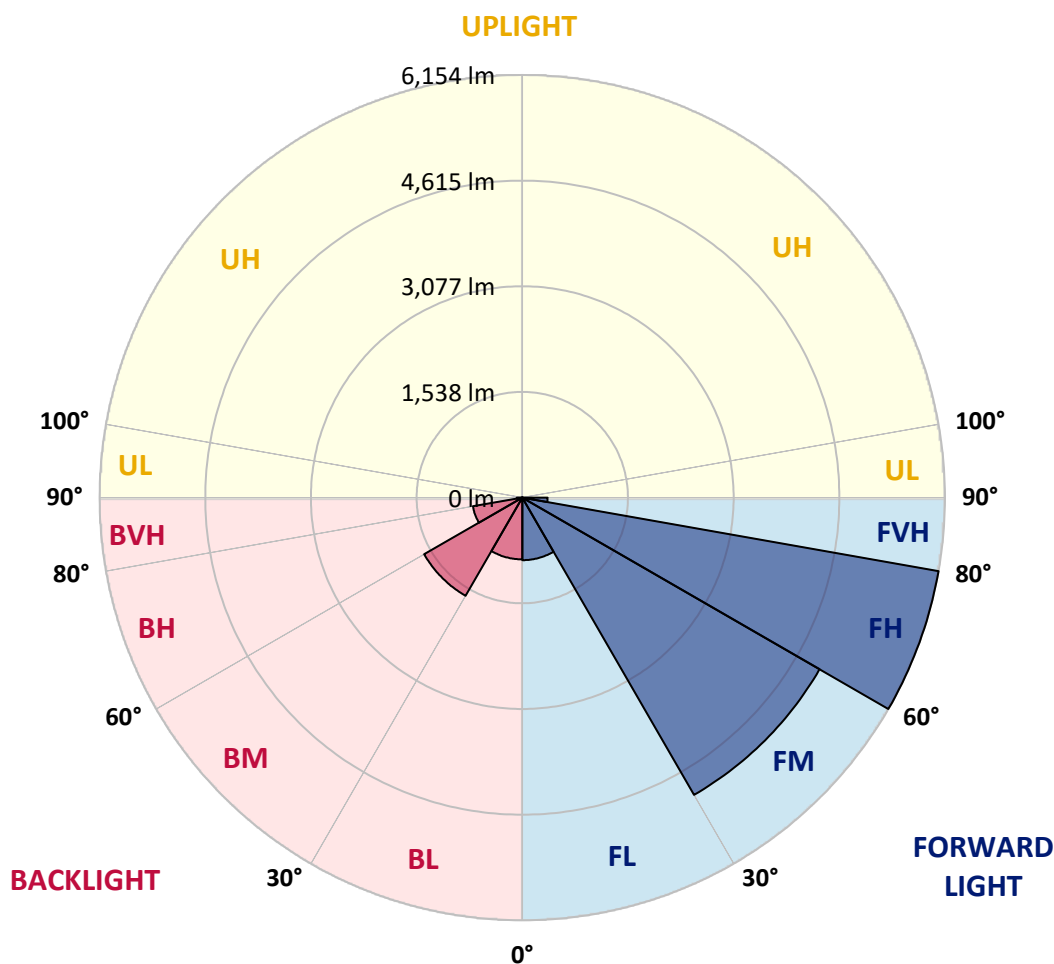
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	910.2	5.8			
FM (30°-60°)	4996.3	31.6			
FH (60°-80°)	6153.7	39.0			G3/7500
FVH (80°-90°)	368.8	2.3			G3/500
BL (0°-30°)	898.7	5.7	B2/1000		
BM (30°-60°)	1650.1	10.5	B2/2500		
BH (60°-80°)	729.8	4.6	B2/1000		G2/1000
BVH (80°-90°)	81.4	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type IV Short





REPORT NUMBER: P458800

CATALOG NUMBER: GALN-SA3B-735-U-T4FT

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	2410.7	2410.7	2410.7	2410.7	2410.7	2410.7	2410.7	2410.7	2410.7	2410.7	2410.7
2.5°	2227.9	2239.2	2245.4	2267.2	2272.5	2279.5	2297.8	2322.3	2353.8	2381.8	2406.3
5°	2042.4	2059.9	2070.4	2089.7	2127.3	2130.8	2179.7	2235.7	2299.6	2359.1	2408.0
7.5°	1866.6	1885.8	1894.6	1929.6	1979.4	1987.3	2059.0	2147.4	2254.1	2344.2	2419.4
10°	1734.5	1744.1	1763.4	1789.6	1849.1	1854.4	1948.0	2066.0	2204.2	2337.2	2438.7
12.5°	1662.8	1668.0	1672.4	1700.4	1759.0	1766.9	1864.9	1998.7	2164.9	2342.4	2470.1
15°	1673.3	1675.0	1655.8	1661.1	1708.3	1719.7	1816.7	1954.1	2140.4	2355.6	2517.4
17.5°	1761.6	1755.5	1708.3	1683.8	1717.0	1722.3	1807.1	1936.6	2129.0	2380.1	2566.4
20°	1900.7	1892.0	1810.6	1756.4	1775.6	1780.0	1838.6	1949.7	2140.4	2420.3	2642.5
22.5°	2073.9	2070.4	1947.1	1881.5	1880.6	1880.6	1911.2	1996.9	2174.5	2475.4	2722.1
25°	2316.2	2297.8	2136.9	2052.0	2028.4	2026.7	2023.2	2074.8	2218.2	2534.0	2816.5
27.5°	2564.6	2533.1	2389.7	2259.3	2208.6	2202.5	2179.7	2185.0	2274.2	2600.5	2924.1
30°	2787.7	2767.5	2632.8	2488.5	2428.2	2414.2	2351.2	2322.3	2367.8	2720.3	3095.6
32.5°	2958.2	2946.0	2841.0	2709.8	2620.6	2618.0	2526.1	2502.5	2513.9	2865.5	3291.5
35°	3096.4	3100.8	3047.4	2933.7	2831.4	2816.5	2755.3	2725.6	2692.3	3075.4	3538.2
37.5°	3285.4	3295.0	3291.5	3193.5	3068.4	3071.9	3057.9	3009.0	2920.6	3309.9	3811.9
40°	3493.5	3500.5	3499.7	3462.1	3396.5	3400.0	3394.7	3338.7	3206.6	3608.1	4116.3
42.5°	3781.3	3748.1	3661.5	3699.1	3737.6	3754.2	3790.1	3736.7	3555.6	3926.5	4402.4
45°	4103.2	4040.2	3844.3	3861.8	4004.4	4035.9	4233.5	4160.1	3934.4	4292.1	4739.1
47.5°	4306.1	4244.0	4078.7	4075.2	4264.2	4294.8	4644.6	4617.5	4279.0	4686.6	5150.2
50°	4487.2	4478.5	4292.1	4336.8	4521.3	4566.8	5092.5	5067.1	4622.8	5152.0	5598.1
52.5°	4755.7	4684.9	4536.2	4628.0	4872.1	4931.5	5536.8	5462.5	4938.5	5563.1	6032.8
55°	4876.4	4859.8	4851.1	4930.7	5265.7	5308.5	5968.9	5798.4	5208.0	5911.2	6363.4
57.5°	5199.2	5168.6	5255.2	5309.4	5729.3	5794.9	6420.3	6149.1	5444.1	6187.6	6524.4
60°	5617.3	5600.7	5680.3	5778.3	6247.1	6346.8	6934.6	6448.3	5633.9	6326.7	6436.0
62.5°	6241.8	6240.1	6225.2	6435.2	6981.0	7072.8	7525.0	6739.5	5663.7	6222.6	5979.4
65°	7137.5	7106.0	6976.6	7205.8	7894.2	8001.7	8139.9	6902.2	5484.4	5688.2	5034.8
67.5°	8074.3	8072.6	7967.6	8265.0	9205.3	9316.4	8908.8	6866.4	4986.7	4607.9	3575.8
70°	8851.1	8813.5	8947.3	9739.8	10880.4	11009.0	9581.4	6443.9	3972.0	3043.1	2124.6
72.5°	9037.4	9039.1	9317.3	10876.9	12488.9	12509.1	9823.7	5222.8	2658.2	1678.5	1062.8
74°	8463.6	8478.4	8909.7	10933.7	12789.0	12698.0	9204.4	4105.0	1797.5	1096.0	766.2
75°	7725.3	7631.7	8255.4	10555.0	12477.6	12379.6	8479.3	3294.1	1371.5	875.6	670.9
77.5°	4130.3	4225.7	5187.8	7876.7	10136.9	10024.0	5749.4	1579.7	740.9	609.7	482.8
80°	1470.4	1621.7	2279.5	4121.6	6499.0	6534.0	2743.9	724.3	521.3	449.6	341.1
82.5°	600.0	616.7	978.8	1829.0	3300.2	3331.7	1120.5	430.4	372.6	309.6	203.8
85°	234.4	241.4	433.0	822.2	1408.3	1500.1	387.5	227.4	229.2	177.6	104.1
87.5°	78.7	89.2	177.6	273.8	478.5	468.8	112.8	67.4	82.2	77.0	32.4
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: P458800
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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2410.7	2410.7	2410.7	2410.7	2410.7	2410.7	2410.7	2410.7	2410.7	2410.7	2410.7
2.5°	2418.5	2435.2	2446.5	2458.8	2470.1	2473.6	2471.0	2478.9	2479.8	2480.6	2481.5
5°	2432.5	2455.3	2477.1	2489.4	2494.6	2490.3	2475.4	2467.5	2460.5	2455.3	2457.0
7.5°	2451.8	2484.1	2504.3	2509.5	2495.5	2475.4	2438.7	2409.8	2391.4	2379.2	2378.3
10°	2481.5	2513.0	2529.6	2514.8	2476.3	2427.3	2369.6	2315.3	2274.2	2262.0	2261.1
12.5°	2519.1	2555.0	2554.1	2510.4	2443.0	2355.6	2262.0	2199.0	2143.0	2115.0	2126.4
15°	2568.1	2595.2	2569.9	2491.1	2384.4	2264.6	2149.1	2063.4	2000.4	1970.7	1972.4
17.5°	2625.0	2648.6	2581.2	2457.0	2302.2	2148.3	2014.4	1933.1	1883.2	1861.4	1859.6
20°	2695.8	2702.8	2581.2	2397.5	2196.4	2012.7	1885.0	1828.1	1800.1	1788.8	1792.3
22.5°	2771.9	2757.9	2567.2	2313.6	2057.3	1871.0	1785.3	1759.9	1745.9	1744.1	1745.9
25°	2857.6	2818.3	2538.4	2199.9	1912.1	1748.5	1698.7	1703.0	1705.7	1705.7	1711.8
27.5°	2962.6	2883.9	2490.3	2056.4	1742.4	1634.8	1620.8	1651.4	1665.4	1668.0	1672.4
30°	3100.8	2955.6	2410.7	1877.1	1598.1	1532.5	1557.0	1598.1	1613.8	1623.4	1621.7
32.5°	3265.2	3034.3	2303.1	1697.8	1481.7	1460.7	1490.5	1532.5	1550.0	1555.2	1548.2
35°	3458.6	3123.5	2161.4	1529.8	1380.3	1392.5	1427.5	1440.6	1456.4	1456.4	1459.9
37.5°	3666.7	3195.3	1988.2	1375.9	1301.6	1346.2	1371.5	1359.3	1352.3	1343.5	1347.9
40°	3878.4	3248.6	1763.4	1223.7	1222.8	1298.1	1305.0	1270.1	1242.1	1233.3	1229.0
42.5°	4063.0	3281.9	1560.5	1105.6	1148.5	1250.8	1256.1	1200.1	1155.5	1129.2	1120.5
45°	4280.8	3320.4	1361.9	1007.7	1079.4	1213.2	1226.3	1151.1	1085.5	1030.4	1016.4
47.5°	4579.0	3407.8	1205.3	931.6	1029.5	1189.6	1208.0	1110.9	1024.3	952.5	941.2
50°	4915.8	3527.7	1083.8	879.9	991.0	1168.6	1191.3	1069.8	967.4	887.8	879.1
52.5°	5224.6	3592.4	978.8	833.6	953.4	1130.1	1169.5	1040.0	911.4	823.1	815.2
55°	5393.4	3487.4	875.6	788.1	901.8	1080.3	1138.9	998.9	857.2	789.0	777.6
57.5°	5416.1	3270.5	782.0	739.1	847.6	1019.0	1082.0	949.0	822.2	765.4	755.7
60°	5240.3	2946.9	709.4	698.9	792.5	949.9	1018.1	905.3	786.4	739.1	729.5
62.5°	4803.0	2595.2	658.6	662.1	736.5	877.3	970.9	863.3	752.2	710.3	701.5
65°	4050.7	2142.1	609.7	624.5	686.6	820.5	928.1	828.3	718.1	688.4	680.5
67.5°	2813.9	1546.5	569.4	585.2	639.4	762.7	878.2	790.7	679.6	663.9	651.7
70°	1557.8	951.7	522.2	540.6	590.4	698.0	822.2	733.9	623.7	616.7	599.2
72.5°	818.7	606.2	468.8	489.0	523.9	614.9	736.5	671.8	568.6	538.8	516.1
74°	639.4	496.8	433.0	454.0	477.6	565.9	685.8	627.2	529.2	494.2	476.7
75°	557.2	442.6	402.4	429.5	450.5	532.7	646.4	595.7	507.3	474.1	458.3
77.5°	393.6	331.5	328.9	361.3	372.6	467.1	582.5	542.3	452.2	417.2	402.4
80°	276.4	248.4	260.7	280.8	296.5	412.9	540.6	468.8	370.9	329.8	324.5
82.5°	180.2	162.7	186.3	204.7	209.9	304.4	436.5	356.0	270.3	219.5	203.8
85°	83.1	81.3	106.7	104.1	103.2	148.7	258.9	208.2	155.7	116.3	109.3
87.5°	21.0	20.1	26.2	21.9	26.2	22.7	23.6	6.1	0.9	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)