

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: P522859

Luminaire Tested: **GALN-SA7D-735-U-T4W**

Issue Date: 5/13/2021

Test Information

Test Method: LM-79-08
Report Number: P522859
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2011-042-41)
Test Lab: INNOVATION CENTER
Issue Date: 5/13/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA7D-735-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 50230 lumens
Efficiency: N/A
Efficacy: 116.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

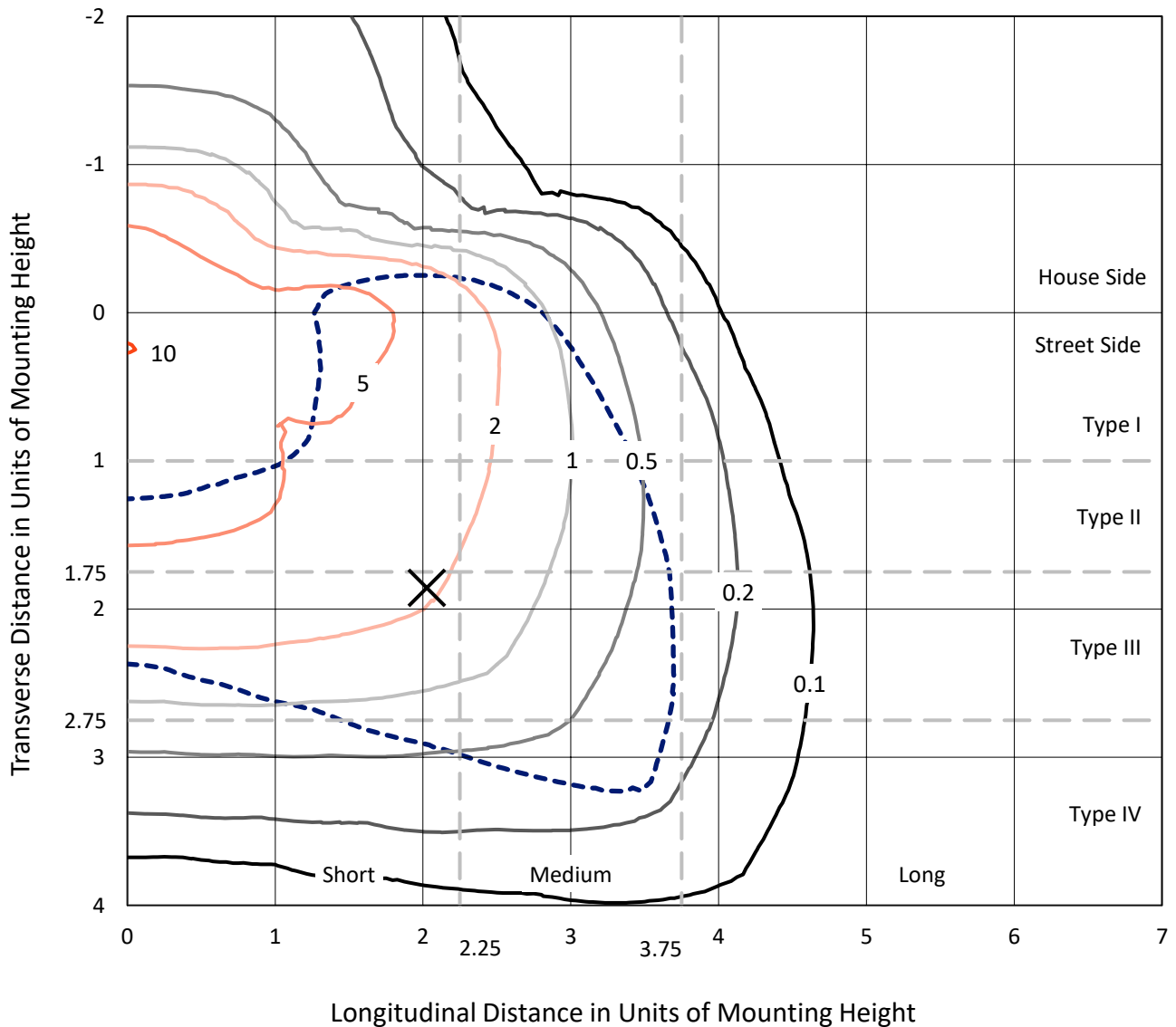
Input Watts (W): 433
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

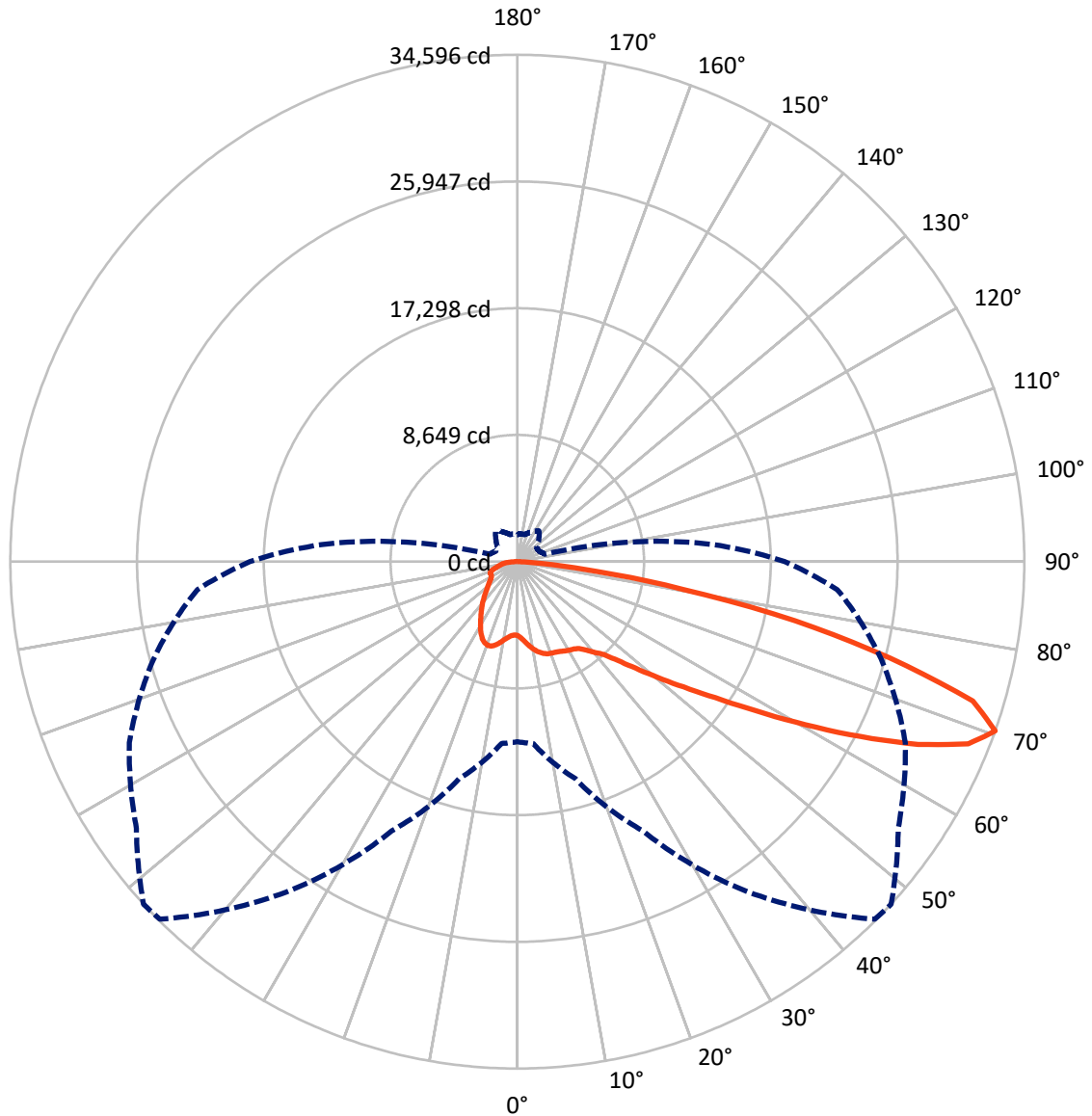
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.2 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 47.5-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11373.0	0.0	11373.0
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	38857.0	0.0	38857.0
	% Fixture	77.4	0.0	77.4
Total	Lumens	50230.0	0.0	50230.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	519.8	1.0
10°-20°	1737.7	3.5
20°-30°	2889.7	5.8
30°-40°	4095.7	8.2
40°-50°	6046.1	12.0
50°-60°	10472.2	20.8
60°-70°	14792.2	29.4
70°-80°	8503.4	16.9
80°-90°	1173.3	2.3
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°	50230.0	100.0
0°-180°	50230.0	100.0

Coefficient of Utilization



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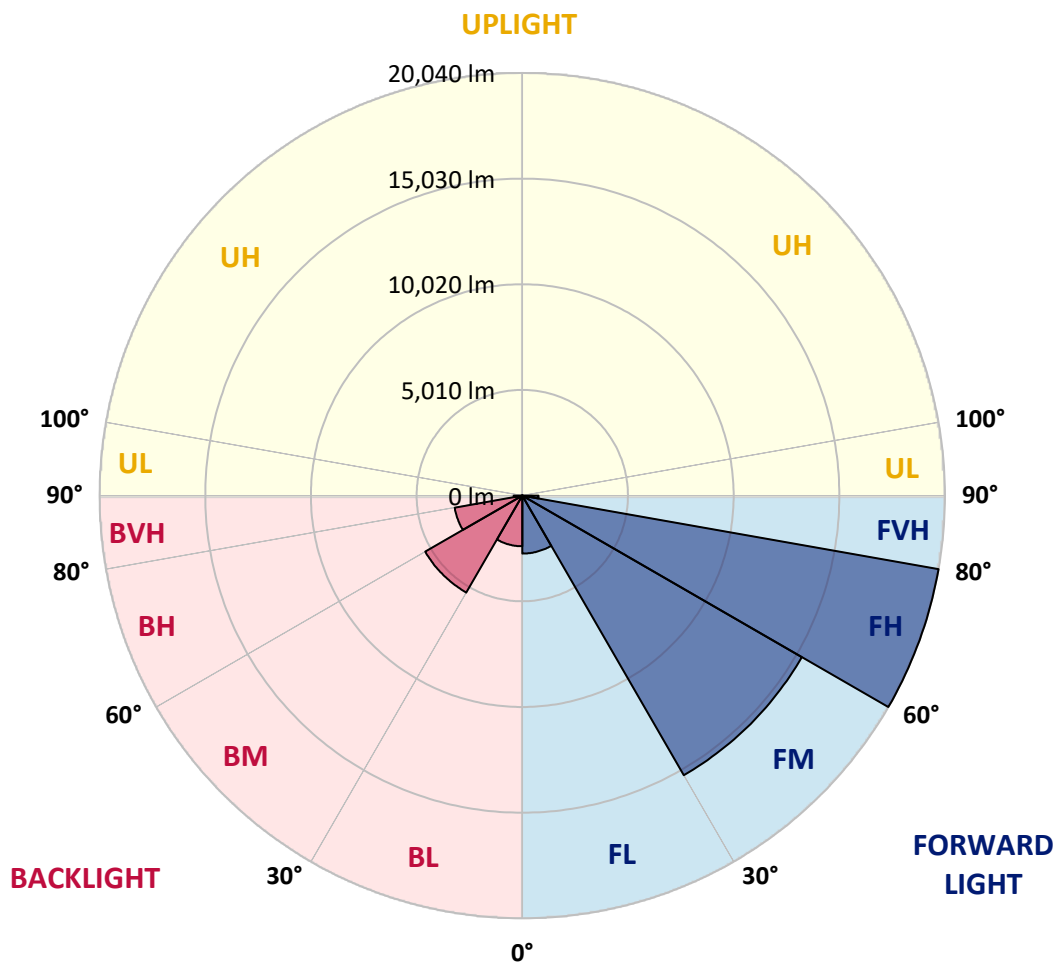
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2746.8	5.5			
FM	(30°-60°)	15304.1	30.5			
FH	(60°-80°)	20039.7	39.9			G5
FVH	(80°-90°)	766.4	1.5			G5
BL	(0°-30°)	2400.4	4.8	B3/2500		
BM	(30°-60°)	5309.9	10.6	B4/8500		
BH	(60°-80°)	3256.0	6.5	B4/5000		G4/5000
BVH	(80°-90°)	406.9	0.8			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47.5°	55°	65°	75°	85°
0°	5042.5	5042.5	5042.5	5042.5	5042.5	5042.5	5042.5	5042.5	5042.5	5042.5	5042.5
2.5°	5367.7	5348.9	5346.2	5305.9	5284.4	5244.1	5228.0	5190.3	5144.6	5098.9	5055.9
5°	5789.7	5789.7	5770.9	5714.5	5625.8	5534.4	5494.1	5421.5	5292.5	5187.6	5098.9
7.5°	6222.5	6227.8	6190.2	6106.9	5980.6	5832.7	5795.1	5687.6	5504.8	5351.6	5219.9
10°	6596.1	6596.1	6545.0	6432.1	6273.5	6112.3	6074.6	5953.7	5749.4	5558.6	5386.5
12.5°	6881.0	6881.0	6813.8	6666.0	6493.9	6348.8	6305.8	6190.2	5999.4	5787.0	5569.3
15°	7066.5	7053.0	6977.8	6811.1	6644.5	6518.1	6488.6	6391.8	6217.1	6002.1	5757.5
17.5°	7074.5	7069.2	6996.6	6856.8	6711.7	6625.7	6606.8	6542.3	6405.2	6201.0	5942.9
20°	6918.6	6929.4	6881.0	6781.6	6711.7	6674.0	6666.0	6644.5	6547.7	6356.9	6098.8
22.5°	6752.0	6770.8	6725.1	6671.4	6666.0	6703.6	6709.0	6714.4	6652.5	6467.1	6230.5
25°	6711.7	6725.1	6679.4	6631.0	6660.6	6760.1	6781.6	6803.1	6754.7	6598.8	6386.4
27.5°	6915.9	6905.2	6816.5	6711.7	6730.5	6864.9	6894.4	6918.6	6894.4	6760.1	6580.0
30°	7493.8	7458.9	7281.5	6975.1	6878.3	6972.4	7002.0	7069.2	7069.2	6969.7	6789.6
32.5°	8461.5	8394.3	8069.1	7467.0	7131.0	7074.5	7104.1	7214.3	7270.8	7192.8	6996.6
35°	9636.1	9566.2	9101.2	8292.2	7593.3	7278.8	7270.8	7394.4	7544.9	7370.2	7114.9
37.5°	10816.1	10743.5	10184.4	9275.9	8268.0	7708.9	7660.5	7703.5	7768.0	7448.2	7278.8
40°	11996.1	11910.1	11420.9	10375.3	9093.1	8278.7	8152.4	7958.9	7932.0	7703.5	7596.0
42.5°	13165.3	13087.4	12840.1	11609.0	10082.3	8835.1	8641.6	8308.3	8410.4	8273.3	8179.3
45°	14345.3	14350.7	14087.2	12993.3	11275.7	9861.9	9601.2	9079.7	9321.6	9270.5	9324.3
47.5°	15390.9	15377.4	15283.4	14337.2	12756.7	11184.3	10848.3	10243.6	10657.5	10845.6	11256.9
50°	16404.2	16396.1	16401.5	15861.3	14477.0	12756.7	12385.8	11751.5	12684.2	13337.3	14073.8
52.5°	17855.7	17901.4	17576.1	17433.7	16568.2	14614.1	14205.5	13549.7	15079.1	16108.5	17546.6
55°	19312.5	19274.9	19019.5	19167.4	18756.1	16812.8	16385.4	15863.9	17745.5	18871.7	21032.8
57.5°	20170.0	20183.4	20444.1	21167.2	21457.5	19554.4	19167.4	18764.2	20742.5	21540.8	24134.6
60°	20941.4	21003.2	21753.1	23118.6	23906.1	22922.4	22578.3	22185.9	23492.2	23809.4	26827.9
62.5°	21183.3	21374.1	22683.1	24725.9	26293.0	26723.0	26295.7	25430.2	26110.2	25986.6	28652.9
65°	19976.4	20237.1	22583.7	25328.0	28424.5	30330.2	30058.7	28451.3	28341.1	27596.6	28951.3
67.5°	16799.3	17060.1	20073.2	24064.7	29306.1	33453.5	33182.0	30655.4	29695.8	27747.1	26693.5
70°	12291.7	12455.7	15337.1	20261.3	27534.8	34501.8	34595.9	31730.6	29212.0	25701.6	21917.1
72.5°	7082.6	7445.5	9464.1	14253.9	22495.0	31851.5	32504.7	29494.3	26153.2	21441.3	15323.7
75°	3045.4	3053.4	4375.9	7862.1	15235.0	25602.2	26233.8	24449.1	20538.2	14826.4	8181.9
77.5°	1448.8	1475.7	1924.5	3510.4	8386.2	17689.0	19393.1	17272.4	13135.7	7122.9	3091.1
80°	940.8	959.6	1177.3	1741.8	4112.5	10257.0	11445.0	9964.0	5795.1	2545.4	1333.2
82.5°	569.8	575.2	787.6	1064.4	2263.2	4644.7	5475.2	4324.8	2472.9	1524.0	784.9
85°	346.7	349.4	478.4	658.5	1373.5	1604.7	1647.7	1634.2	1451.5	997.2	419.3
87.5°	166.6	172.0	247.3	311.8	540.3	497.3	470.4	545.6	685.4	537.6	180.1
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°	5042.5	5042.5	5042.5	5042.5	5042.5	5042.5	5042.5	5042.5	5042.5	5042.5	5042.5
2.5°	5037.1	5029.0	5010.2	5002.2	4996.8	4999.5	4996.8	4996.8	4999.5	4999.5	4999.5
5°	5061.3	5047.9	5018.3	5018.3	5034.4	5072.1	5107.0	5133.9	5163.4	5160.8	5160.8
7.5°	5166.1	5141.9	5107.0	5117.7	5158.1	5217.2	5279.0	5338.2	5397.3	5402.7	5400.0
10°	5319.3	5295.1	5257.5	5271.0	5335.5	5424.2	5502.1	5588.1	5652.6	5671.5	5666.1
12.5°	5494.1	5445.7	5413.4	5451.0	5553.2	5671.5	5746.7	5811.2	5856.9	5883.8	5873.0
15°	5671.5	5625.8	5588.1	5666.1	5789.7	5899.9	5937.6	5948.3	5956.4	5983.3	5977.9
17.5°	5843.5	5781.7	5768.2	5870.4	5988.6	6037.0	6015.5	5969.8	5934.9	5956.4	5953.7
20°	5996.7	5948.3	5942.9	6045.1	6090.8	6045.1	5953.7	5873.0	5811.2	5816.6	5813.9
22.5°	6141.8	6104.2	6109.6	6152.6	6080.0	5924.1	5773.6	5663.4	5596.2	5609.6	5617.7
25°	6303.1	6265.5	6278.9	6209.0	5969.8	5698.3	5480.6	5386.5	5359.7	5386.5	5405.4
27.5°	6512.8	6488.6	6480.5	6211.7	5773.6	5365.0	5117.7	5082.8	5107.0	5166.1	5195.7
30°	6738.5	6738.5	6695.5	6166.0	5504.8	4964.5	4749.5	4754.9	4838.2	4921.5	4951.1
32.5°	6956.3	7002.0	6867.6	6042.4	5158.1	4574.8	4410.8	4416.2	4488.8	4590.9	4617.8
35°	7136.4	7268.1	7015.4	5816.6	4749.5	4246.9	4123.2	4050.7	4053.3	4131.3	4152.8
37.5°	7383.6	7628.2	7101.4	5480.6	4314.1	3967.3	3827.6	3701.2	3617.9	3585.6	3585.6
40°	7813.7	8173.9	7122.9	4983.4	3902.8	3701.2	3502.3	3351.8	3190.5	3045.4	3018.5
42.5°	8542.1	8996.4	7079.9	4410.8	3531.9	3408.2	3214.7	3029.3	2806.2	2601.9	2585.8
45°	9832.3	10066.2	6964.3	3816.8	3201.3	3126.0	2937.9	2736.3	2499.7	2317.0	2303.5
47.5°	11899.3	11568.7	6811.1	3290.0	2900.2	2878.7	2733.6	2499.7	2263.2	2136.9	2123.4
50°	14917.8	13934.0	6789.6	2908.3	2658.3	2669.1	2550.8	2335.8	2128.8	2024.0	2007.9
52.5°	18551.8	16791.3	6932.1	2639.5	2446.0	2486.3	2427.2	2228.3	2045.5	1956.8	1940.7
55°	22078.4	19360.9	7018.1	2429.9	2247.1	2322.3	2330.4	2163.8	1997.1	1908.4	1897.7
57.5°	24941.0	21296.2	6636.4	2239.0	2075.1	2190.6	2249.8	2126.1	1972.9	1905.7	1895.0
60°	26932.7	22210.1	5550.5	2069.7	1948.7	2085.8	2220.2	2128.8	2032.0	2040.1	2045.5
62.5°	27567.0	21804.2	4163.5	1943.3	1862.7	2050.9	2268.6	2239.0	2139.6	2201.4	2212.1
65°	26516.1	20126.9	3018.5	1843.9	1787.4	2075.1	2413.7	2319.7	2101.9	2147.6	2147.6
67.5°	22997.6	17339.6	2349.2	1752.5	1701.4	2120.7	2558.9	2311.6	2013.2	2067.0	2018.6
70°	18242.7	13412.6	1956.8	1650.4	1610.0	2053.6	2572.3	2228.3	1908.4	1919.2	1827.8
72.5°	12106.3	8819.0	1682.6	1553.6	1470.3	1846.6	2462.1	2120.7	1806.3	1744.4	1653.1
75°	5932.2	4397.4	1467.6	1432.6	1287.5	1607.4	2311.6	2018.6	1696.1	1599.3	1548.2
77.5°	2298.1	1870.8	1252.6	1279.4	1120.9	1416.5	2112.7	1873.5	1550.9	1419.2	1378.9
80°	1115.5	1061.7	1026.8	1067.1	921.9	1206.9	1929.9	1747.1	1416.5	1271.4	1212.2
82.5°	693.5	655.8	787.6	830.6	709.6	1102.0	1830.5	1639.6	1247.2	1053.7	1005.3
85°	352.1	376.3	526.8	567.1	508.0	876.3	1507.9	1231.1	900.4	747.2	752.6
87.5°	134.4	180.1	276.9	298.4	271.5	462.3	830.6	717.7	577.9	392.4	362.9
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)