

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: P459198

Luminaire Tested: **GALN-SA6D-735-U-T2**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P459198  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-10)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA6D-735-U-T2  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 42977 lumens  
Efficiency: N/A  
Efficacy: 116.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G5

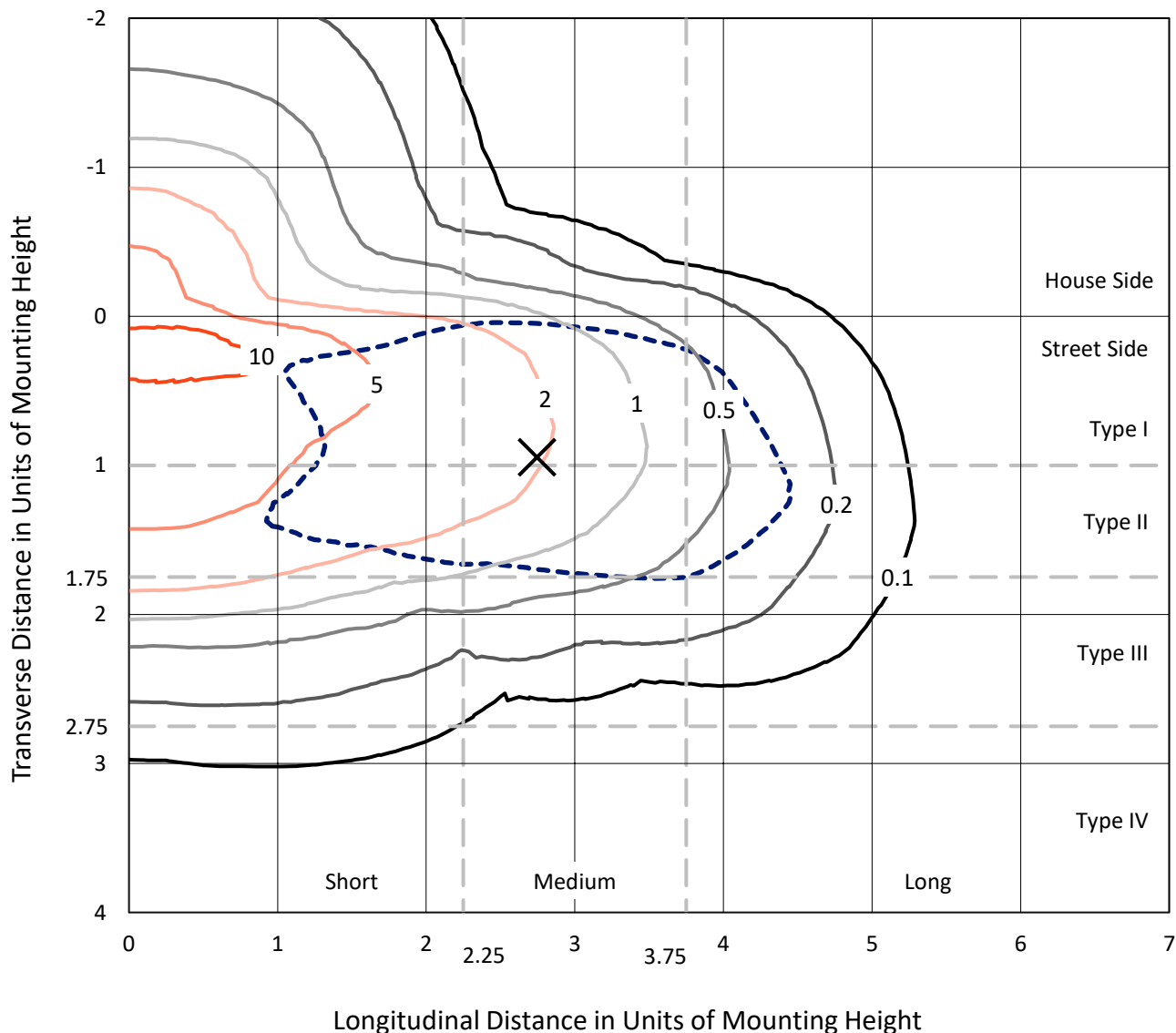
Input Watts (W): 368  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

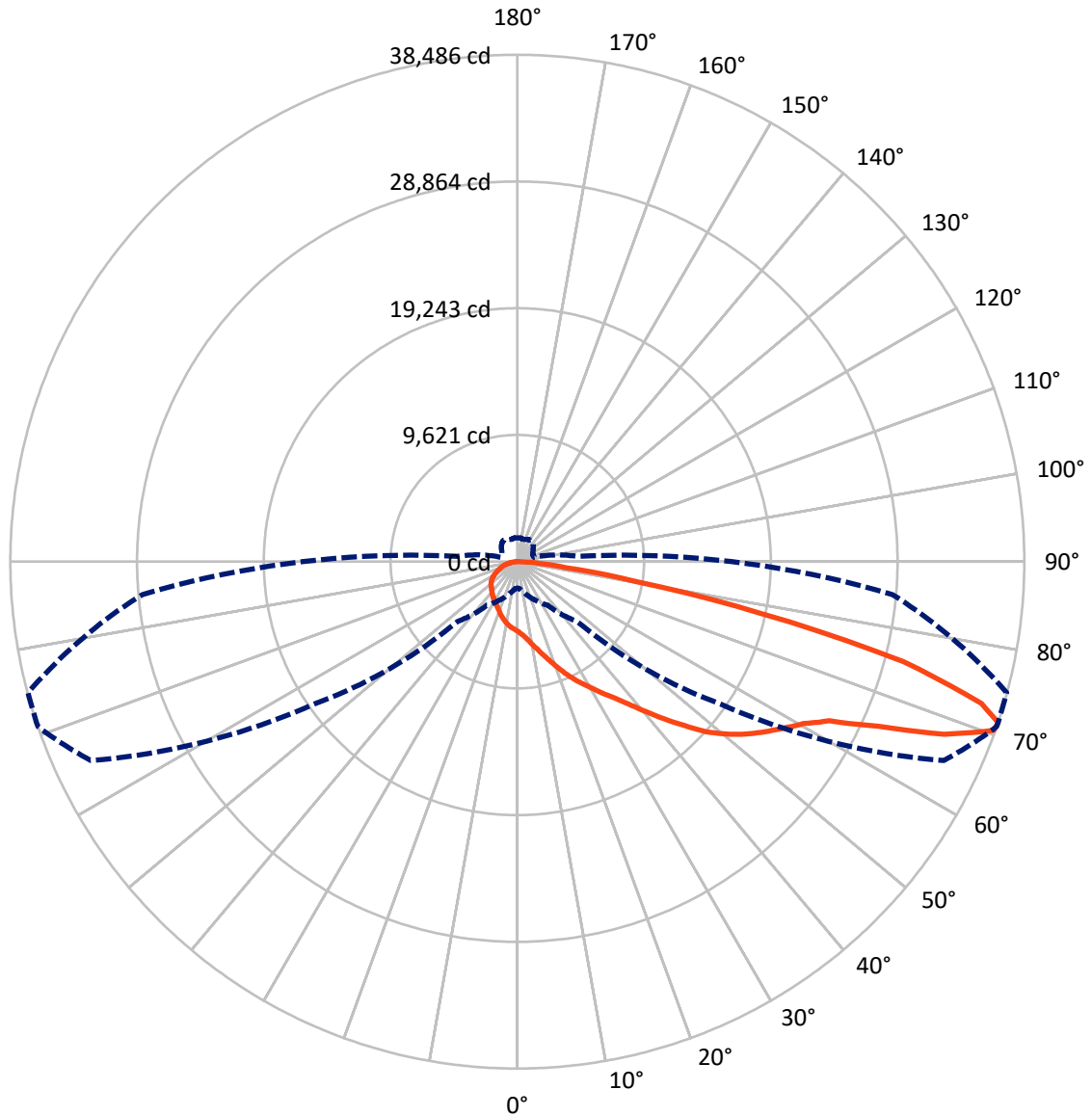
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 71-Deg Lateral    - - - Horizontal Cone Through 71-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7729.3	0.0	7729.3
	% Fixture	18.0	0.0	18.0
<b>Street Side</b>	Lumens	35247.7	0.0	35247.7
	% Fixture	82.0	0.0	82.0
<b>Total</b>	Lumens	42977.0	0.0	42977.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	529.6	1.2
10°-20°	1720.6	4.0
20°-30°	3007.0	7.0
30°-40°	4472.5	10.4
40°-50°	6589.6	15.3
50°-60°	9225.5	21.5
60°-70°	10318.5	24.0
70°-80°	6302.9	14.7
80°-90°	810.8	1.9
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°	42977.0	100.0
0°-180°	42977.0	100.0

**Coefficient of Utilization**



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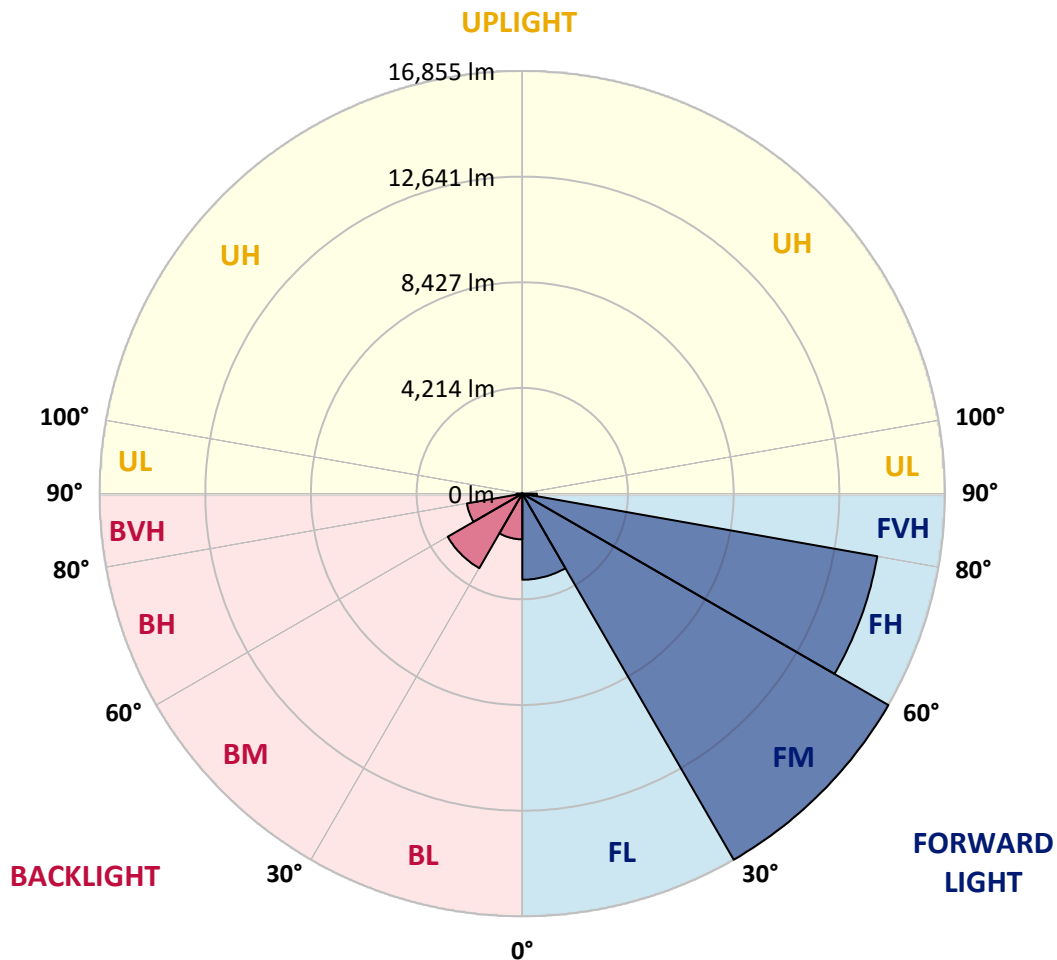
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3433.9	8.0			
FM	(30°-60°)	16854.7	39.2			
FH	(60°-80°)	14375.7	33.4			G5
FVH	(80°-90°)	583.4	1.4			G4/750
BL	(0°-30°)	1823.3	4.2	B3/2500		
BM	(30°-60°)	3432.9	8.0	B3/5000		
BH	(60°-80°)	2245.7	5.2	B3/2500		G3/2500
BVH	(80°-90°)	227.4	0.5			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G5**

Type II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	71°	75°	85°
0°	5274.6	5274.6	5274.6	5274.6	5274.6	5274.6	5274.6	5274.6	5274.6	5274.6	5274.6
2.5°	5855.7	5827.3	5829.7	5789.5	5737.6	5680.9	5600.5	5529.7	5473.0	5439.9	5343.1
5°	6488.7	6460.4	6424.9	6337.5	6299.7	6160.4	5983.2	5822.6	5699.8	5631.3	5437.6
7.5°	7001.3	6994.2	6984.7	6935.1	6838.3	6644.6	6493.4	6214.7	6032.8	5902.9	5572.2
10°	7317.8	7329.6	7336.7	7346.1	7306.0	7204.4	6996.6	6644.6	6413.1	6247.8	5747.0
12.5°	7478.4	7490.2	7530.4	7617.8	7672.1	7660.3	7490.2	7145.4	6826.5	6609.2	5933.6
15°	7577.6	7596.5	7667.4	7783.1	7965.0	8080.8	7998.1	7679.2	7329.6	7072.1	6155.6
17.5°	7686.3	7707.5	7785.5	7950.8	8189.4	8439.8	8529.6	8255.6	7875.3	7568.2	6403.7
20°	7747.7	7776.0	7887.1	8104.4	8383.1	8746.9	9044.5	8900.4	8484.7	8144.5	6689.5
22.5°	7846.9	7870.5	7965.0	8196.5	8529.6	8985.4	9559.4	9528.7	9162.6	8723.3	7003.6
25°	8116.2	8154.0	8201.2	8340.6	8661.8	9228.7	9987.0	10199.6	9819.3	9328.0	7291.8
27.5°	8624.0	8654.8	8652.4	8671.3	8853.2	9439.0	10357.8	10863.3	10471.2	9939.7	7570.5
30°	9202.8	9214.6	9224.0	9181.5	9221.7	9653.9	10698.0	11520.0	11127.9	10568.1	7813.8
32.5°	9906.7	9930.3	9850.0	9741.3	9708.2	9972.8	10979.1	12176.6	11905.0	11205.8	8054.8
35°	10738.1	10799.5	10636.6	10445.2	10310.6	10431.1	11357.0	12847.5	12701.0	12020.7	8373.7
37.5°	11687.7	11763.3	11612.1	11236.5	11045.2	11078.3	11850.7	13676.6	13707.3	12949.1	8848.4
40°	12464.8	12564.0	12568.8	12037.3	11746.7	11784.5	12476.6	14569.5	14921.4	14097.0	9408.3
42.5°	12977.4	13074.2	13175.8	12864.0	12559.3	12774.3	13206.5	15537.9	16286.7	15490.7	10190.1
45°	13539.6	13627.0	13683.7	13541.9	13371.9	13929.3	14087.6	16567.8	17741.8	17047.3	11045.2
47.5°	14191.5	14288.4	14342.7	14208.1	14144.3	14942.7	15037.2	17529.2	19296.0	18559.1	11990.0
50°	15060.8	15134.0	15105.7	15020.6	15006.4	15719.8	15948.9	18429.1	20578.7	20186.5	12970.3
52.5°	16142.6	16230.0	16260.7	16140.3	16085.9	16274.9	16683.5	19248.8	21745.5	21584.9	14016.7
55°	16796.9	16936.3	17404.0	17593.0	17722.9	16993.0	17474.8	20153.5	22791.9	23058.9	15141.1
57.5°	15958.4	16137.9	17184.3	18129.2	19350.4	18788.2	18596.8	21098.3	23838.4	24487.9	16487.5
60°	13912.8	13953.0	15301.7	17042.6	19499.2	21096.0	20937.7	22600.6	24972.2	25928.8	18261.4
62.5°	9651.6	9736.6	11331.0	14108.8	17661.5	21927.4	24920.2	25194.2	26597.3	28085.4	20862.1
65°	4977.0	4865.9	6318.6	8867.3	13315.2	19952.7	28146.8	29963.3	30121.6	31458.5	24523.4
67.5°	3063.6	3113.3	3793.5	5177.7	7872.9	14501.0	27809.1	35790.6	34956.8	35599.3	27922.4
70°	2300.7	2362.1	2829.8	3543.2	4799.8	8291.0	22364.4	37203.1	38367.7	38202.3	28957.0
71°	2000.7	2064.5	2551.1	3224.3	4032.1	6398.9	18842.5	35724.5	38485.8	38457.4	28567.3
72.5°	1705.4	1745.6	2125.9	2730.6	3399.1	4485.6	14156.1	32039.6	36844.1	37786.6	27176.0
75°	1339.3	1370.0	1540.1	2083.4	2676.3	2754.2	7596.5	24020.2	30260.9	32056.1	22624.2
77.5°	1091.3	1112.6	1199.9	1547.2	2064.5	1951.1	3984.9	15634.8	18958.2	20765.3	13327.0
80°	866.9	890.5	942.5	1048.8	1547.2	1391.3	1901.5	7922.5	9157.9	9139.0	5319.5
82.5°	673.2	680.3	741.7	770.0	1058.2	987.4	1029.9	3354.2	3715.6	3838.4	1920.4
85°	425.2	446.4	656.7	590.5	633.0	578.7	507.9	1332.2	1641.7	1618.0	767.7
87.5°	129.9	137.0	222.0	250.4	281.1	252.7	186.6	392.1	479.5	519.7	191.3
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°	5274.6	5274.6	5274.6	5274.6	5274.6	5274.6	5274.6	5274.6	5274.6	5274.6	5274.6
2.5°	5305.3	5279.3	5187.2	5111.6	5040.7	4962.8	4896.6	4877.7	4861.2	4854.1	4851.8
5°	5354.9	5276.9	5095.1	4946.2	4828.1	4719.5	4651.0	4620.3	4589.6	4589.6	4599.0
7.5°	5425.8	5284.0	5002.9	4780.9	4632.1	4530.5	4480.9	4476.2	4483.3	4490.4	4492.7
10°	5503.7	5279.3	4868.3	4591.9	4459.7	4412.4	4414.8	4454.9	4492.7	4521.1	4525.8
12.5°	5579.3	5251.0	4710.0	4414.8	4329.7	4339.2	4405.3	4495.1	4568.3	4608.5	4610.8
15°	5664.3	5206.1	4518.7	4247.1	4218.7	4291.9	4414.8	4551.8	4662.8	4728.9	4736.0
17.5°	5735.2	5130.5	4317.9	4084.1	4119.5	4254.1	4424.2	4601.4	4736.0	4818.7	4832.9
20°	5815.5	5033.6	4110.1	3928.2	4029.8	4211.6	4405.3	4596.7	4736.0	4816.3	4835.2
22.5°	5879.3	4896.6	3911.6	3800.6	3949.4	4159.7	4341.5	4495.1	4608.5	4651.0	4679.3
25°	5905.3	4724.2	3725.0	3696.7	3885.7	4074.6	4197.5	4284.9	4320.3	4315.6	4327.4
27.5°	5891.1	4525.8	3564.4	3614.0	3805.4	3942.4	4003.8	3996.7	3932.9	3873.9	3902.2
30°	5832.0	4289.6	3429.8	3529.0	3701.4	3777.0	3767.6	3675.4	3555.0	3443.9	3451.0
32.5°	5725.7	4034.5	3304.6	3432.1	3555.0	3588.0	3524.3	3403.8	3231.4	3087.3	3066.0
35°	5636.0	3791.2	3193.6	3321.1	3408.5	3392.0	3330.6	3174.7	3018.8	2891.2	2870.0
37.5°	5621.8	3583.3	3087.3	3195.9	3245.5	3221.9	3146.3	3014.0	2957.4	2860.5	2848.7
40°	5697.4	3436.9	2978.6	3063.6	3087.3	3068.4	2985.7	2910.1	2962.1	2938.5	2938.5
42.5°	5902.9	3358.9	2881.8	2931.4	2950.3	2964.4	2905.4	2841.6	2905.4	2796.7	2761.3
45°	6228.9	3361.3	2794.4	2801.5	2858.1	2907.8	2867.6	2773.1	2740.0	2522.7	2480.2
47.5°	6708.4	3441.6	2723.5	2678.6	2780.2	2862.9	2806.2	2669.2	2522.7	2378.6	2352.7
50°	7268.2	3585.7	2659.7	2551.1	2676.3	2806.2	2763.7	2603.0	2451.9	2364.5	2347.9
52.5°	7889.4	3767.6	2581.8	2409.3	2548.7	2780.2	2773.1	2593.6	2385.7	2326.7	2312.5
55°	8657.1	3947.1	2484.9	2244.0	2435.3	2758.9	2747.1	2515.6	2371.6	2329.0	2324.3
57.5°	9550.0	4206.9	2345.6	2076.3	2305.4	2671.5	2645.6	2468.4	2324.3	2293.6	2291.2
60°	10988.5	4610.8	2147.2	1922.8	2173.1	2518.0	2551.1	2388.1	2248.7	2241.6	2239.3
62.5°	12880.6	5177.7	1941.6	1764.5	2019.6	2319.6	2414.1	2279.4	2168.4	2203.8	2208.6
65°	15493.0	5654.9	1729.1	1629.9	1849.5	2128.3	2284.2	2177.9	2078.7	2147.2	2147.2
67.5°	17196.1	5664.3	1535.4	1490.5	1677.1	1967.6	2147.2	2057.4	1962.9	2078.7	2083.4
70°	16841.8	4962.8	1374.7	1344.0	1509.4	1795.2	1996.0	1925.1	1816.5	1920.4	1882.6
71°	16270.2	4573.0	1311.0	1287.3	1443.2	1712.5	1925.1	1866.1	1757.4	1825.9	1804.6
72.5°	15358.4	3970.7	1207.0	1211.8	1344.0	1608.6	1825.9	1764.5	1655.8	1693.6	1686.5
75°	12982.1	3467.6	1032.2	1053.5	1155.1	1431.4	1627.5	1580.2	1469.2	1469.2	1462.1
77.5°	8116.2	2423.5	857.4	869.3	980.3	1225.9	1398.4	1358.2	1251.9	1216.5	1207.0
80°	3028.2	1251.9	670.8	685.0	753.5	966.1	1157.4	1119.6	1011.0	970.8	933.0
82.5°	1145.6	628.3	493.7	481.9	555.1	737.0	907.0	862.2	777.1	680.3	651.9
85°	432.3	311.8	302.3	292.9	326.0	437.0	562.2	552.7	463.0	394.5	387.4
87.5°	113.4	101.6	118.1	87.4	92.1	82.7	85.0	35.4	16.5	7.1	4.7
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)