

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: P455552

Luminaire Tested: **GALN-SA6D-727-U-T4FT**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P455552  
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-SA6D-727-U-T4FT  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 2700K, 1200mA 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: 38280 lumens  
Efficiency: N/A  
Efficacy: 104.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5

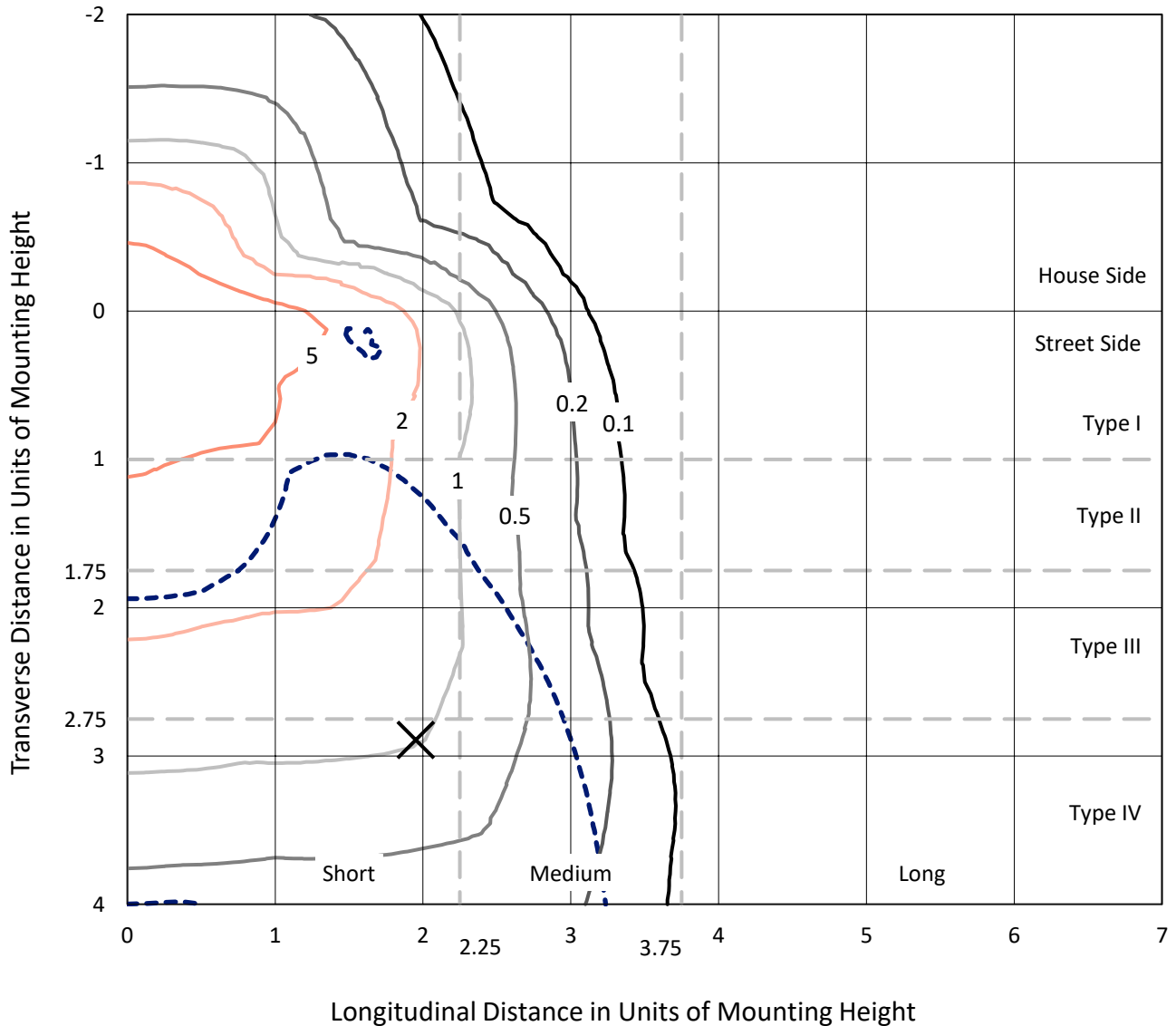
Input Watts (W): 368  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

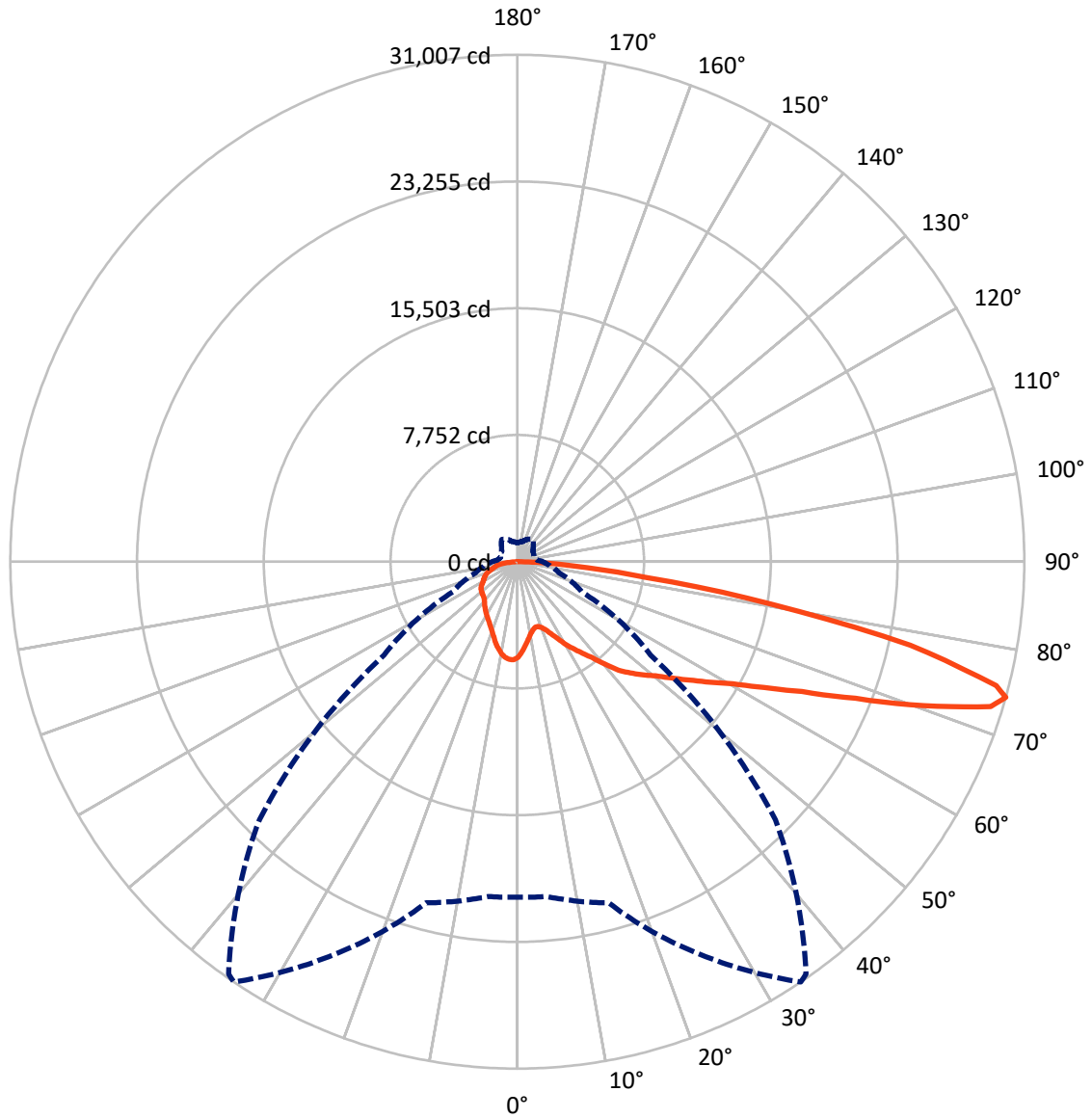
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.4 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



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

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	8146.3	0.0	8146.3
	% Fixture	21.3	0.0	21.3
<b>Street Side</b>	Lumens	30133.7	0.0	30133.7
	% Fixture	78.7	0.0	78.7
<b>Total</b>	Lumens	38280.0	0.0	38280.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	531.5	1.4
10°-20°	1455.1	3.8
20°-30°	2399.0	6.3
30°-40°	3593.5	9.4
40°-50°	5223.9	13.6
50°-60°	7296.6	19.1
60°-70°	9135.0	23.9
70°-80°	7553.9	19.7
80°-90°	1091.5	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°	38280.0	100.0
0°-180°	38280.0	100.0

**Coefficient of Utilization**



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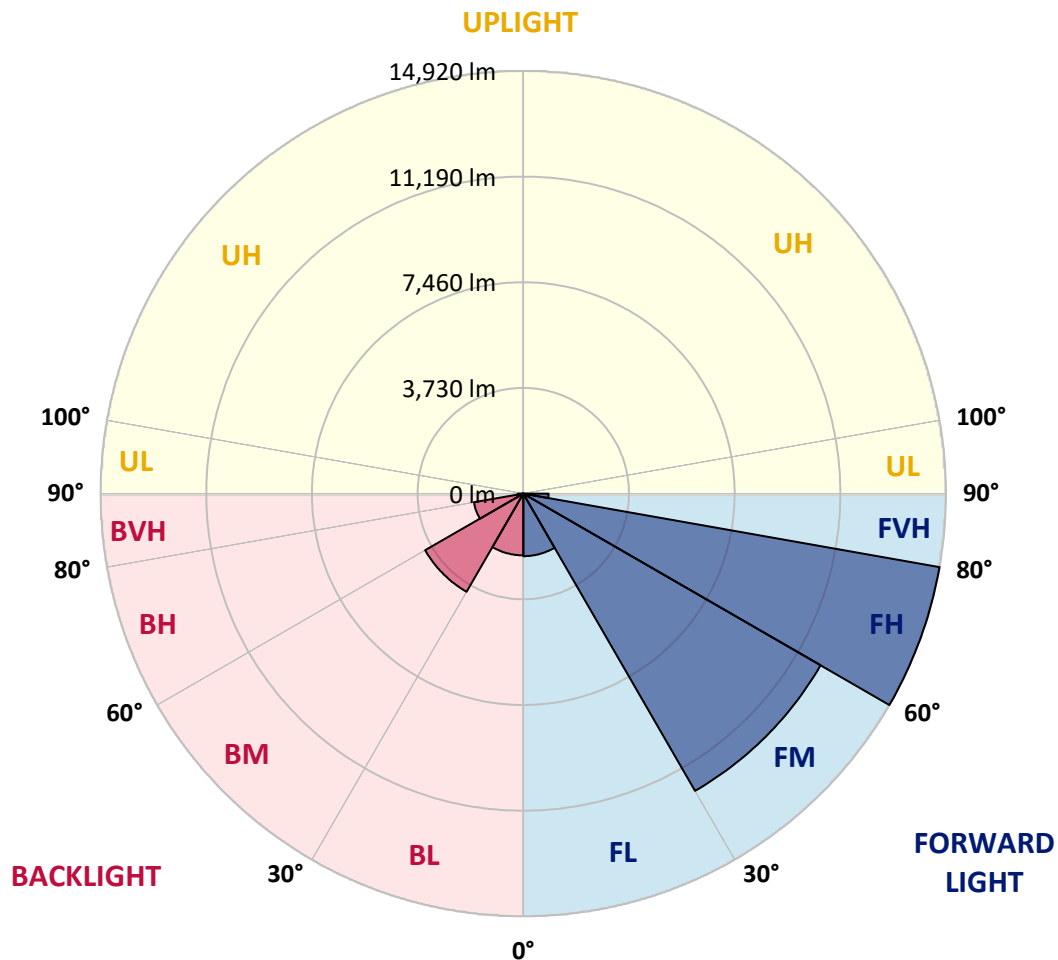
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2206.7	5.8			
FM (30°-60°)	12113.4	31.6			
FH (60°-80°)	14919.5	39.0			G5
FVH (80°-90°)	894.2	2.3			G5
BL (0°-30°)	2179.0	5.7	B3/2500		
BM (30°-60°)	4000.6	10.5	B3/5000		
BH (60°-80°)	1769.3	4.6	B3/2500		G3/2500
BVH (80°-90°)	197.3	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

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

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	5844.6	5844.6	5844.6	5844.6	5844.6	5844.6	5844.6	5844.6	5844.6	5844.6	5844.6
2.5°	5401.4	5428.9	5443.8	5496.8	5509.5	5526.5	5571.0	5630.4	5706.8	5774.6	5834.0
5°	4951.8	4994.2	5019.7	5066.3	5157.5	5166.0	5284.7	5420.5	5575.3	5719.5	5838.2
7.5°	4525.5	4572.2	4593.4	4678.2	4799.1	4818.2	4992.1	5206.3	5465.0	5683.4	5865.8
10°	4205.3	4228.6	4275.3	4338.9	4483.1	4495.8	4722.8	5009.1	5344.1	5666.5	5912.5
12.5°	4031.4	4044.1	4054.7	4122.6	4264.7	4283.8	4521.3	4845.8	5248.7	5679.2	5988.8
15°	4056.9	4061.1	4014.5	4027.2	4141.7	4169.3	4404.7	4737.6	5189.3	5711.0	6103.3
17.5°	4271.1	4256.2	4141.7	4082.3	4162.9	4175.6	4381.3	4695.2	5161.7	5770.4	6222.1
20°	4608.2	4587.0	4389.8	4258.3	4305.0	4315.6	4457.7	4727.0	5189.3	5867.9	6406.6
22.5°	5028.1	5019.7	4720.6	4561.6	4559.5	4559.5	4633.7	4841.5	5272.0	6001.5	6599.6
25°	5615.6	5571.0	5180.8	4975.1	4917.9	4913.6	4905.1	5030.3	5378.0	6143.6	6828.6
27.5°	6217.8	6141.5	5793.7	5477.7	5354.7	5339.9	5284.7	5297.5	5513.8	6304.8	7089.4
30°	6758.6	6709.8	6383.3	6033.3	5887.0	5853.1	5700.4	5630.4	5740.7	6595.3	7505.1
32.5°	7172.1	7142.5	6888.0	6569.9	6353.6	6347.2	6124.5	6067.3	6094.8	6947.4	7980.1
35°	7507.2	7517.8	7388.5	7112.8	6864.6	6828.6	6680.1	6608.0	6527.5	7456.3	8578.2
37.5°	7965.3	7988.6	7980.1	7742.6	7439.4	7447.8	7413.9	7295.1	7081.0	8024.7	9241.9
40°	8470.0	8487.0	8484.8	8393.7	8234.6	8243.1	8230.4	8094.6	7774.4	8747.8	9979.9
42.5°	9167.7	9087.1	8877.2	8968.4	9061.7	9102.0	9188.9	9059.6	8620.6	9519.7	10673.4
45°	9948.1	9795.4	9320.4	9362.8	9708.5	9784.8	10264.1	10086.0	9538.8	10406.2	11489.9
47.5°	10440.1	10289.5	9888.7	9880.3	10338.3	10412.5	11260.8	11195.1	10374.4	11362.6	12486.6
50°	10879.1	10857.9	10406.2	10514.3	10961.8	11072.1	12346.6	12285.1	11207.8	12490.8	13572.4
52.5°	11530.1	11358.4	10997.9	11220.5	11812.2	11956.4	13423.9	13243.7	11973.4	13487.5	14626.3
55°	11822.8	11782.5	11761.3	11954.3	12766.5	12870.4	14471.5	14058.0	12626.5	14331.6	15428.0
57.5°	12605.3	12531.1	12741.1	12872.5	13890.5	14049.5	15565.8	14908.4	13199.1	15001.7	15818.2
60°	13619.0	13578.7	13771.7	14009.2	15145.9	15387.7	16812.8	15633.7	13659.3	15338.9	15604.0
62.5°	15133.2	15128.9	15092.9	15601.9	16925.2	17147.8	18244.2	16339.9	13731.4	15086.5	14497.0
65°	17304.8	17228.4	16914.6	17470.2	19139.2	19400.0	19735.1	16734.3	13296.7	13790.8	12206.6
67.5°	19576.0	19571.8	19317.3	20038.3	22318.1	22587.4	21599.1	16647.4	12090.0	11171.8	8669.3
70°	21459.2	21368.0	21692.5	23613.8	26379.2	26690.9	23229.9	15623.1	9630.0	7377.9	5151.1
72.5°	21910.9	21915.1	22589.5	26370.7	30279.1	30327.9	23817.4	12662.6	6444.8	4069.6	2576.6
74°	20519.7	20555.8	21601.3	26508.5	31006.5	30785.9	22315.9	9952.4	4358.0	2657.2	1857.7
75°	18729.9	18502.9	20015.0	25590.3	30251.5	30014.0	20557.9	7986.5	3325.2	2122.8	1626.6
77.5°	10013.9	10245.0	12577.8	19096.7	24576.6	24303.0	13939.2	3830.0	1796.2	1478.1	1170.6
80°	3564.9	3931.7	5526.5	9992.7	15756.7	15841.5	6652.6	1755.9	1263.9	1090.0	827.1
82.5°	1454.8	1495.1	2373.0	4434.3	8001.3	8077.7	2716.6	1043.4	903.4	750.7	494.1
85°	568.3	585.3	1049.7	1993.4	3414.3	3637.0	939.5	551.4	555.6	430.5	252.4
87.5°	190.9	216.3	430.5	663.8	1160.0	1136.7	273.6	163.3	199.3	186.6	78.5
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°	5844.6	5844.6	5844.6	5844.6	5844.6	5844.6	5844.6	5844.6	5844.6	5844.6	5844.6
2.5°	5863.7	5904.0	5931.5	5961.2	5988.8	5997.3	5990.9	6010.0	6012.1	6014.3	6016.4
5°	5897.6	5952.8	6005.8	6035.5	6048.2	6037.6	6001.5	5982.4	5965.5	5952.8	5957.0
7.5°	5944.3	6022.7	6071.5	6084.2	6050.3	6001.5	5912.5	5842.5	5797.9	5768.3	5766.1
10°	6016.4	6092.7	6133.0	6097.0	6003.7	5884.9	5744.9	5613.4	5513.8	5484.1	5482.0
12.5°	6107.6	6194.5	6192.4	6086.4	5923.1	5711.0	5484.1	5331.4	5195.7	5127.8	5155.4
15°	6226.3	6292.1	6230.6	6039.7	5781.0	5490.4	5210.5	5002.7	4850.0	4777.9	4782.1
17.5°	6364.2	6421.4	6258.1	5957.0	5581.6	5208.4	4883.9	4686.7	4565.8	4512.8	4508.6
20°	6535.9	6552.9	6258.1	5812.8	5325.0	4879.7	4570.1	4432.2	4364.4	4336.8	4345.3
22.5°	6720.4	6686.5	6224.2	5609.2	4987.8	4536.1	4328.3	4266.8	4232.9	4228.6	4232.9
25°	6928.3	6832.8	6154.2	5333.5	4635.8	4239.2	4118.4	4129.0	4135.3	4135.3	4150.2
27.5°	7182.7	6991.9	6037.6	4985.7	4224.4	3963.6	3929.6	4003.8	4037.8	4044.1	4054.7
30°	7517.8	7165.8	5844.6	4551.0	3874.5	3715.4	3774.8	3874.5	3912.7	3936.0	3931.7
32.5°	7916.5	7356.6	5583.8	4116.2	3592.4	3541.5	3613.6	3715.4	3757.8	3770.6	3753.6
35°	8385.2	7573.0	5240.2	3709.1	3346.4	3376.1	3461.0	3492.8	3530.9	3530.9	3539.4
37.5°	8889.9	7746.9	4820.3	3335.8	3155.6	3263.7	3325.2	3295.5	3278.6	3257.4	3268.0
40°	9403.1	7876.2	4275.3	2966.8	2964.7	3147.1	3164.1	3079.2	3011.4	2990.2	2979.6
42.5°	9850.6	7956.8	3783.3	2680.5	2784.5	3032.6	3045.3	2909.6	2801.4	2737.8	2716.6
45°	10378.6	8050.1	3301.9	2443.0	2616.9	2941.4	2973.2	2790.8	2631.8	2498.2	2464.2
47.5°	11101.8	8262.2	2922.3	2258.5	2496.0	2884.1	2928.7	2693.3	2483.3	2309.4	2281.9
50°	11918.2	8552.7	2627.5	2133.4	2402.7	2833.2	2888.4	2593.6	2345.5	2152.5	2131.3
52.5°	12666.8	8709.6	2373.0	2021.0	2311.5	2739.9	2835.4	2521.5	2209.8	1995.6	1976.5
55°	13076.1	8455.2	2122.8	1910.7	2186.4	2619.0	2761.1	2421.8	2078.3	1912.9	1885.3
57.5°	13131.3	7929.2	1895.9	1792.0	2054.9	2470.6	2623.3	2300.9	1993.4	1855.6	1832.3
60°	12705.0	7144.6	1719.9	1694.4	1921.3	2303.1	2468.5	2194.9	1906.5	1792.0	1768.6
62.5°	11644.7	6292.1	1596.9	1605.4	1785.6	2127.0	2354.0	2093.1	1823.8	1722.0	1700.8
65°	9820.9	5193.5	1478.1	1514.2	1664.7	1989.2	2250.0	2008.3	1741.1	1669.0	1649.9
67.5°	6822.2	3749.4	1380.6	1418.7	1550.2	1849.2	2129.2	1917.1	1647.8	1609.6	1579.9
70°	3776.9	2307.3	1266.0	1310.6	1431.5	1692.3	1993.4	1779.3	1512.0	1495.1	1452.7
72.5°	1985.0	1469.6	1136.7	1185.5	1270.3	1490.8	1785.6	1628.7	1378.4	1306.3	1251.2
74°	1550.2	1204.5	1049.7	1100.6	1157.9	1372.1	1662.6	1520.5	1283.0	1198.2	1155.8
75°	1350.9	1073.1	975.5	1041.3	1092.2	1291.5	1567.2	1444.2	1230.0	1149.4	1111.2
77.5°	954.3	803.7	797.4	875.8	903.4	1132.4	1412.4	1314.8	1096.4	1011.6	975.5
80°	670.1	602.3	632.0	680.7	718.9	1001.0	1310.6	1136.7	899.2	799.5	786.8
82.5°	436.9	394.4	451.7	496.2	509.0	738.0	1058.2	863.1	655.3	532.3	494.1
85°	201.5	197.2	258.7	252.4	250.2	360.5	627.7	504.7	377.5	282.1	265.1
87.5°	50.9	48.8	63.6	53.0	63.6	55.1	57.3	14.8	2.1	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)