

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: P459291

Luminaire Tested: **GALN-SA7C-735-U-T3R**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P459291  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-8)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA7C-735-U-T3R  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 46681 lumens  
Efficiency: N/A  
Efficacy: 123.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B3 - U0 - G5

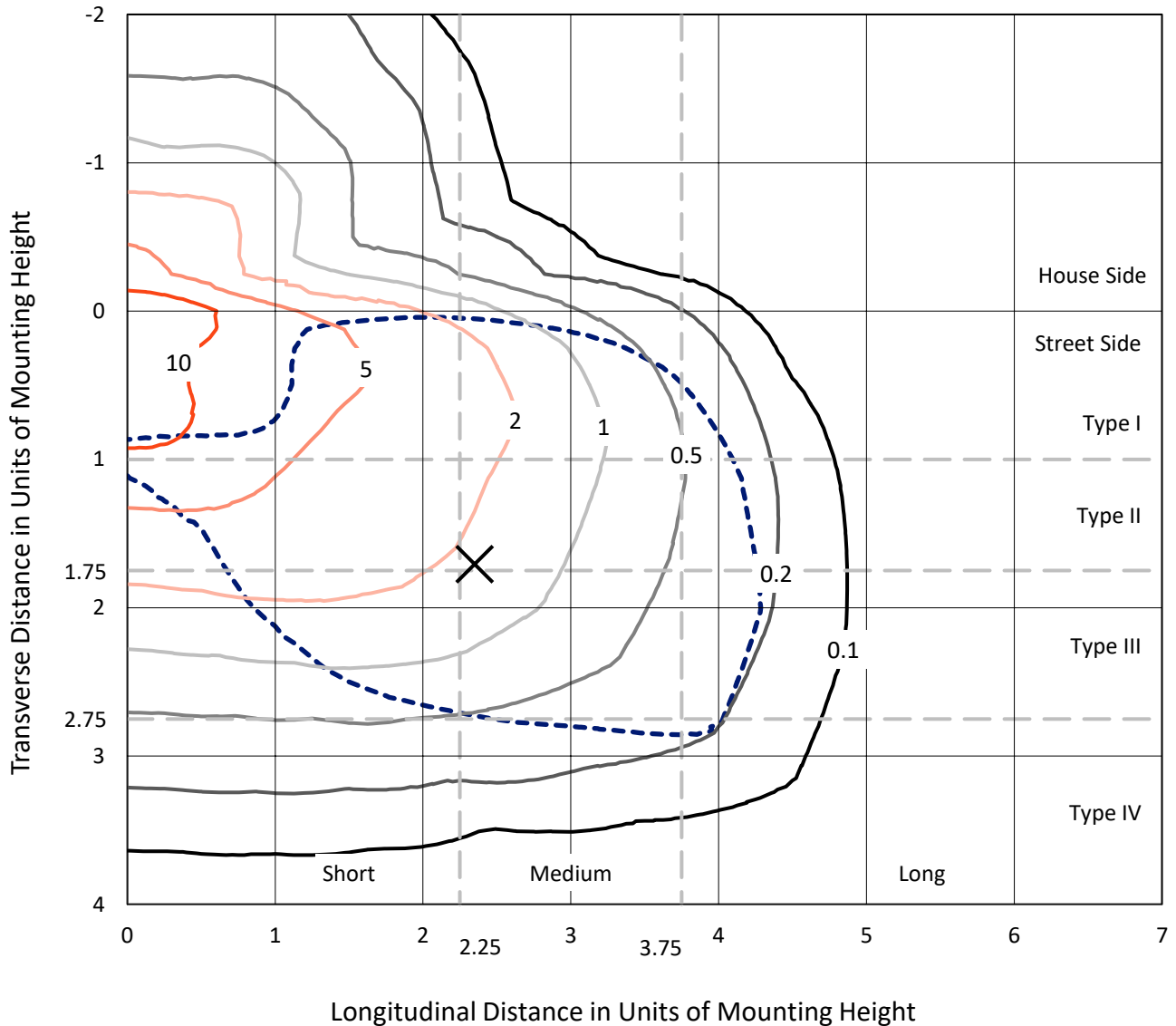
Input Watts (W): 377  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

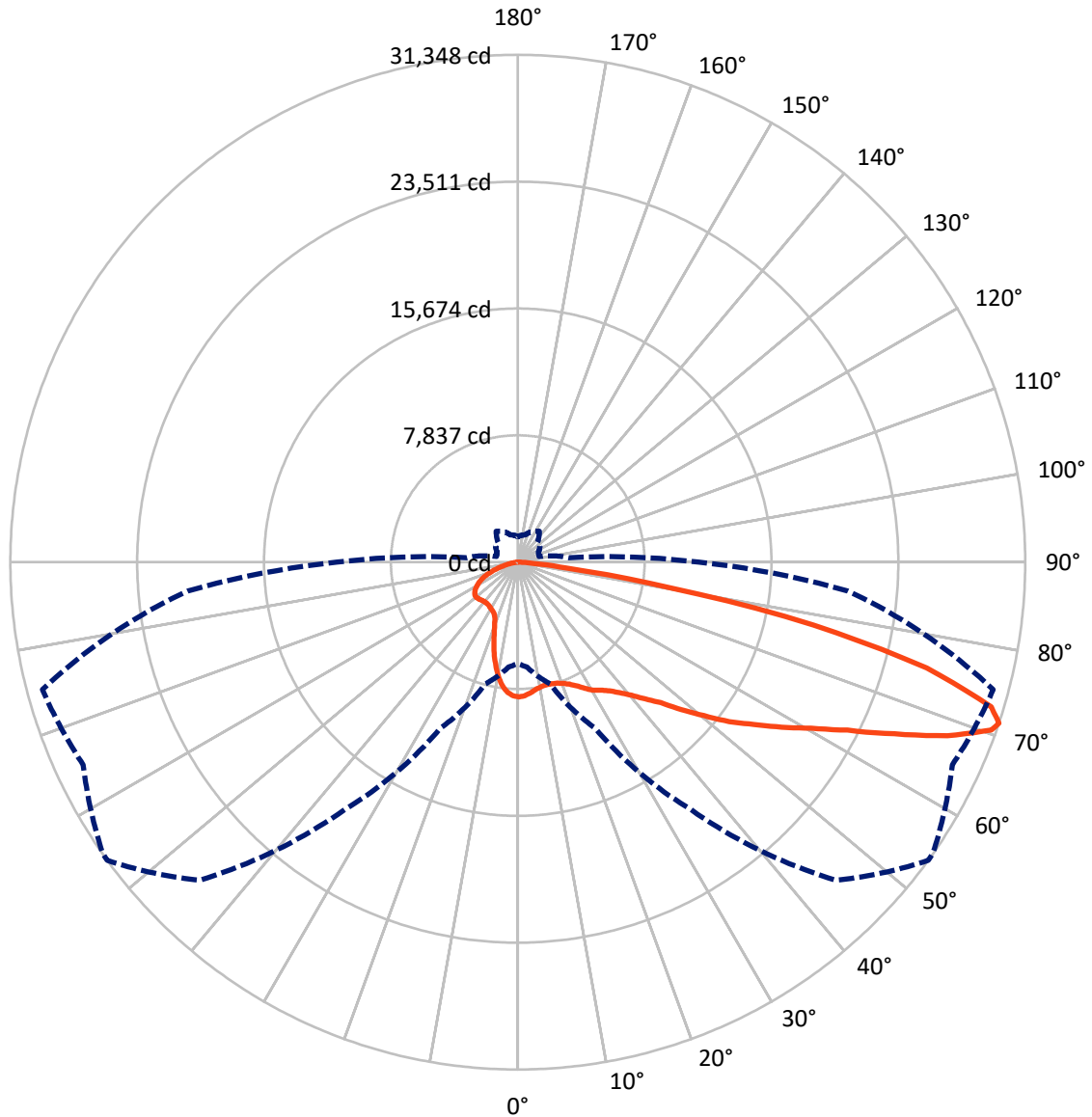
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.4 fc  
 Type IV - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral    - - - Horizontal Cone Through 71-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	8428.0	0.0	8428.0
	% Fixture	18.1	0.0	18.1
<b>Street Side</b>	Lumens	38253.0	0.0	38253.0
	% Fixture	81.9	0.0	81.9
<b>Total</b>	Lumens	46681.0	0.0	46681.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	742.2	1.6
10°-20°	1959.8	4.2
20°-30°	3263.1	7.0
30°-40°	4825.1	10.3
40°-50°	6796.3	14.6
50°-60°	9100.6	19.5
60°-70°	11470.6	24.6
70°-80°	7834.4	16.8
80°-90°	689.0	1.5
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°	46681.0	100.0
0°-180°	46681.0	100.0

**Coefficient of Utilization**



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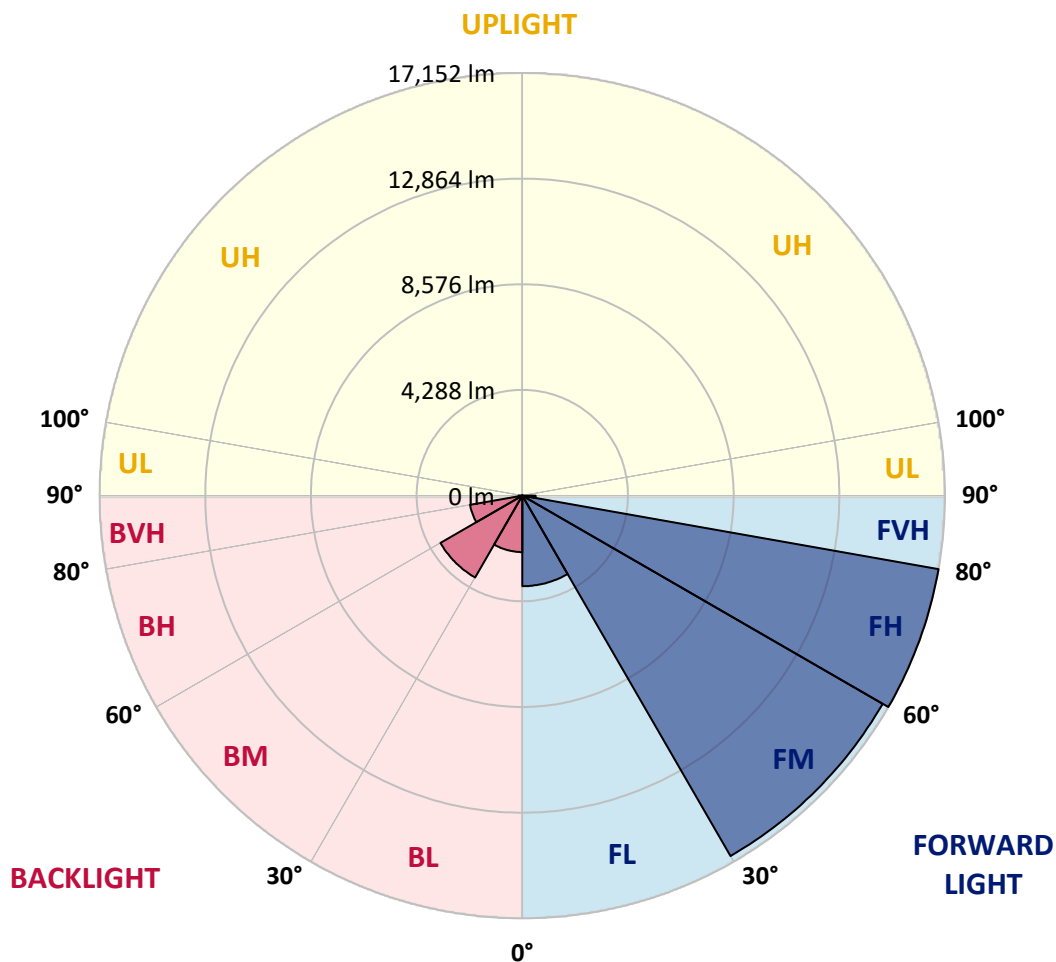
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3674.6	7.9			
FM	(30°-60°)	16887.5	36.2			
FH	(60°-80°)	17152.4	36.7			G5
FVH	(80°-90°)	538.5	1.2			G4/750
BL	(0°-30°)	2290.6	4.9	B3/2500		
BM	(30°-60°)	3834.5	8.2	B3/5000		
BH	(60°-80°)	2152.5	4.6	B3/2500		G3/2500
BVH	(80°-90°)	150.4	0.3			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 Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	8328.6	8328.6	8328.6	8328.6	8328.6	8328.6	8328.6	8328.6	8328.6	8328.6	8328.6
2.5°	8046.2	8084.0	8094.1	8119.3	8172.2	8215.1	8258.0	8252.9	8313.5	8338.7	8361.4
5°	7688.1	7698.2	7736.0	7786.5	7879.8	7998.3	8114.3	8116.8	8265.5	8384.1	8442.1
7.5°	7425.9	7458.7	7483.9	7536.8	7635.2	7763.8	7947.8	7963.0	8227.7	8462.2	8585.8
10°	7254.4	7292.2	7320.0	7385.5	7483.9	7627.6	7826.8	7854.5	8200.0	8585.8	8802.6
12.5°	7098.1	7135.9	7161.1	7246.8	7375.4	7552.0	7776.4	7809.1	8210.1	8729.5	9039.7
15°	7193.9	7224.2	7214.1	7239.3	7325.0	7526.7	7796.5	7829.3	8247.9	8868.2	9274.2
17.5°	7620.0	7645.2	7562.0	7466.2	7425.9	7574.6	7859.6	7894.9	8323.5	9011.9	9513.7
20°	8247.9	8316.0	8134.4	7920.1	7725.9	7746.1	7990.7	8028.5	8429.4	9155.6	9758.3
22.5°	9064.9	9115.3	8893.4	8540.4	8182.3	7998.3	8187.4	8210.1	8588.3	9342.2	10025.6
25°	10025.6	10055.8	9748.2	9294.3	8777.4	8429.4	8457.2	8497.5	8850.5	9554.0	10262.6
27.5°	10958.5	11054.3	10698.8	10144.1	9463.3	8883.3	8827.8	8853.1	9135.5	9672.6	10426.5
30°	12065.5	12057.9	11682.2	11039.2	10166.8	9377.5	9178.3	9173.3	9289.3	9730.5	10545.0
32.5°	12948.0	13051.4	12683.2	11982.3	10971.1	9889.4	9420.4	9410.3	9407.8	9831.4	10721.5
35°	13951.6	13966.7	13628.8	12922.8	11841.1	10532.4	9758.3	9707.9	9649.9	10048.3	10961.0
37.5°	14849.2	14919.8	14609.7	13817.9	12695.9	11200.6	10222.2	10189.5	10013.0	10424.0	11344.3
40°	15550.2	15603.2	15416.6	14662.6	13538.0	11921.7	10812.3	10751.8	10537.4	11039.2	11856.2
42.5°	15779.7	15888.1	15961.2	15590.6	14506.3	12776.5	11538.5	11462.8	11298.9	11972.2	12446.2
45°	15797.3	15968.8	16354.6	16372.2	15479.6	13800.3	12385.7	12332.8	12320.1	13167.4	13275.8
47.5°	15663.7	15837.7	16485.7	16836.2	16347.0	14834.1	13608.6	13525.4	13533.0	14645.0	14206.2
50°	15340.9	15547.7	16334.4	17133.7	17025.3	15908.3	14899.7	14871.9	15028.3	16331.9	15172.0
52.5°	14733.2	14982.9	16178.1	17320.3	17529.6	16833.7	16367.2	16289.0	16684.9	18162.5	16228.5
55°	13051.4	13427.1	15605.7	17423.7	18008.7	17718.7	17688.5	17829.7	18354.1	20159.6	17390.9
57.5°	12173.9	12456.3	14362.6	17441.4	18613.9	18747.5	19231.6	19266.9	20184.8	22280.2	18704.6
60°	11694.8	11944.4	13681.8	17325.4	19458.6	20020.9	20810.1	20936.2	21972.5	24577.3	20066.3
62.5°	11276.2	11490.6	13273.3	16924.4	20411.7	21909.5	22855.1	22915.6	24002.4	27113.9	21410.2
65°	10290.3	10534.9	12451.3	16523.5	21233.7	24269.6	25568.2	25497.6	26163.3	29302.6	22252.4
67.5°	8961.5	9271.6	10915.7	15139.2	21639.7	26849.1	28624.3	28536.0	28296.5	30737.3	22494.5
70°	7264.5	7430.9	8951.4	12746.3	20018.3	28203.2	31037.4	30944.1	29617.8	30926.4	21349.7
71°	6250.8	6510.6	7794.0	11321.6	18669.3	27789.7	31347.5	31322.3	29620.3	30404.5	20487.4
72.5°	4879.1	5038.0	6172.7	8772.4	15867.9	25439.6	30581.0	30676.8	28977.3	28954.6	18709.7
75°	3086.3	3156.9	3873.1	5164.1	8706.8	18016.3	26105.3	26365.0	25729.6	23699.8	13913.7
77.5°	1792.8	1883.6	2319.8	3043.5	3762.1	9778.5	18679.4	18961.8	17877.6	13048.9	5696.1
80°	1043.9	1144.8	1528.0	1767.6	1727.2	3628.5	9511.2	9992.8	7741.1	3295.6	1598.6
82.5°	579.9	648.0	1074.2	1076.7	920.4	1185.1	2993.0	3131.7	2208.9	1328.8	653.1
85°	421.1	476.6	693.4	627.9	441.3	509.3	1041.4	1091.8	892.6	559.8	211.8
87.5°	148.8	211.8	380.7	302.6	121.0	105.9	300.1	244.6	226.9	156.3	47.9
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°	8328.6	8328.6	8328.6	8328.6	8328.6	8328.6	8328.6	8328.6	8328.6	8328.6	8328.6
2.5°	8374.0	8379.0	8353.8	8308.4	8263.0	8205.0	8139.5	8089.0	8066.3	8063.8	8061.3
5°	8464.7	8477.4	8381.5	8240.3	8084.0	7892.4	7728.5	7541.9	7494.0	7418.3	7441.0
7.5°	8611.0	8603.4	8414.3	8114.3	7748.6	7342.7	6999.7	6800.5	6593.8	6535.8	6538.3
10°	8820.3	8772.4	8414.3	7857.1	7246.8	6644.2	6165.1	5862.5	5698.6	5562.5	5512.0
12.5°	9042.2	8921.1	8333.6	7496.5	6601.3	5862.5	5348.1	4939.7	4833.8	4722.8	4725.3
15°	9254.0	9052.3	8174.8	6989.7	5905.4	5027.9	4528.7	4284.1	4251.3	4263.9	4261.4
17.5°	9445.6	9145.6	7932.7	6424.8	5093.5	4311.8	4047.0	4064.7	4152.9	4216.0	4223.5
20°	9639.8	9201.0	7572.1	5668.4	4326.9	3878.1	3888.2	4026.9	4160.5	4246.2	4258.8
22.5°	9823.8	9226.2	7148.5	4937.1	3772.2	3694.0	3842.8	3991.6	4122.7	4205.9	4218.5
25°	9944.9	9168.2	6548.4	4173.1	3499.9	3628.5	3784.8	3910.9	4021.8	4107.6	4127.7
27.5°	9977.7	8981.7	5804.5	3555.3	3373.8	3565.4	3709.2	3802.5	3888.2	3968.9	3984.0
30°	9960.0	8706.8	4987.6	3192.2	3300.7	3492.3	3603.3	3671.3	3774.7	3837.8	3850.4
32.5°	9932.3	8386.6	4135.3	2998.1	3240.2	3424.2	3489.8	3550.3	3547.8	3522.6	3540.2
35°	9942.4	8003.3	3444.4	2882.1	3187.2	3373.8	3429.3	3353.6	3136.8	3126.7	3116.6
37.5°	9995.3	7625.1	2942.6	2801.4	3159.5	3366.2	3396.5	3048.5	2856.9	2768.6	2745.9
40°	10131.5	7183.8	2612.3	2740.9	3156.9	3424.2	3247.7	2894.7	2526.6	2355.1	2342.5
42.5°	10313.0	6750.1	2410.6	2703.1	3187.2	3512.5	3187.2	2677.9	2276.9	2176.1	2160.9
45°	10582.8	6253.4	2299.6	2685.4	3232.6	3545.3	3167.0	2519.0	2176.1	2095.4	2095.4
47.5°	10887.9	5779.3	2239.1	2672.8	3290.6	3522.6	2988.0	2468.6	2128.2	2138.2	2186.2
50°	11190.5	5368.3	2193.7	2645.1	3341.0	3510.0	2914.9	2466.0	2140.8	2269.4	2355.1
52.5°	11541.0	5078.3	2138.2	2599.7	3341.0	3429.3	2892.2	2516.5	2176.1	2213.9	2251.7
55°	11964.6	4987.6	2067.6	2501.3	3280.5	3227.5	2879.6	2589.6	2201.3	2113.0	2128.2
57.5°	12524.4	5133.8	1999.6	2377.8	3141.8	3018.3	2874.5	2609.8	2143.3	2070.2	2055.0
60°	13174.9	5423.8	1979.4	2251.7	2952.7	2839.2	2844.3	2551.8	2062.6	1987.0	1999.6
62.5°	13631.3	5597.8	1966.8	2155.9	2745.9	2642.6	2771.2	2481.2	2027.3	1961.7	1974.4
65°	13631.3	5386.0	1850.8	2009.7	2478.7	2405.5	2682.9	2392.9	1981.9	1906.3	1893.7
67.5°	13114.4	4768.2	1674.3	1790.3	2183.6	2135.7	2559.3	2287.0	1913.8	1855.8	1825.6
70°	11767.9	3615.9	1452.4	1533.1	1810.5	1853.3	2400.5	2143.3	1800.4	1729.8	1684.4
71°	11175.4	3149.4	1359.1	1402.0	1666.7	1729.8	2324.8	2082.8	1749.9	1649.1	1568.4
72.5°	10033.1	2652.6	1217.9	1235.5	1424.7	1538.1	2166.0	1966.8	1654.1	1510.4	1419.6
75°	7622.6	1936.5	980.9	970.8	1054.0	1220.4	1833.1	1752.5	1449.9	1255.7	1202.8
77.5°	3293.1	1054.0	733.8	741.3	716.1	925.4	1442.3	1505.3	1243.1	1021.2	973.3
80°	998.5	607.7	501.8	511.9	479.1	620.3	1016.2	1180.1	998.5	794.3	728.7
82.5°	511.9	363.1	342.9	337.9	305.1	350.5	615.3	806.9	713.6	496.7	438.7
85°	221.9	194.2	168.9	163.9	143.7	126.1	219.4	403.4	378.2	277.4	264.8
87.5°	55.5	50.4	32.8	30.3	17.7	2.5	0.0	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)