

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: P456304

Luminaire Tested: **GALN-SA7C-740-U-T3R**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P456304  
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-740-U-T3R  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 4000K, 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: 50111 lumens  
Efficiency: N/A  
Efficacy: 132.9 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

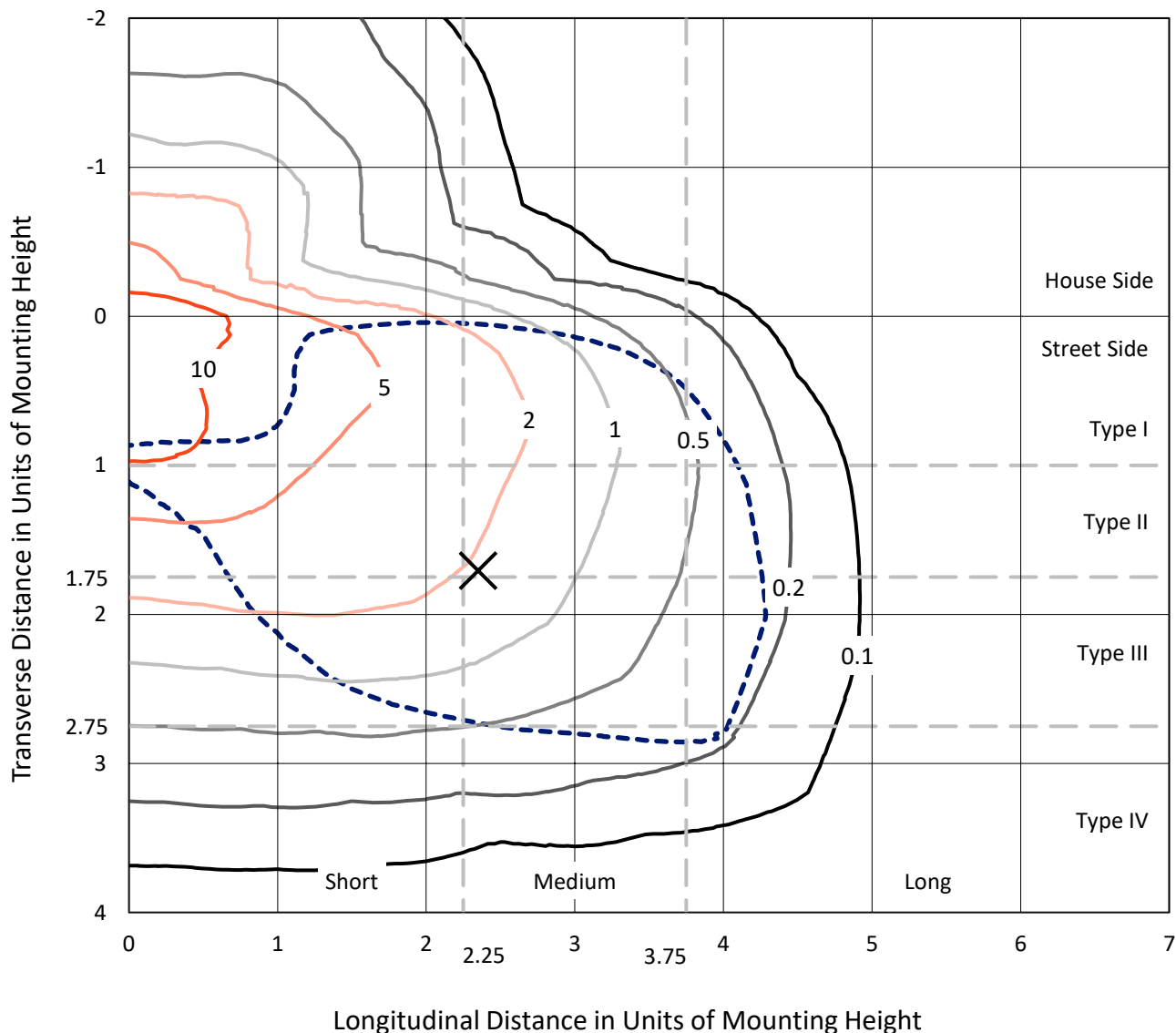
Input Watts (W): 377  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

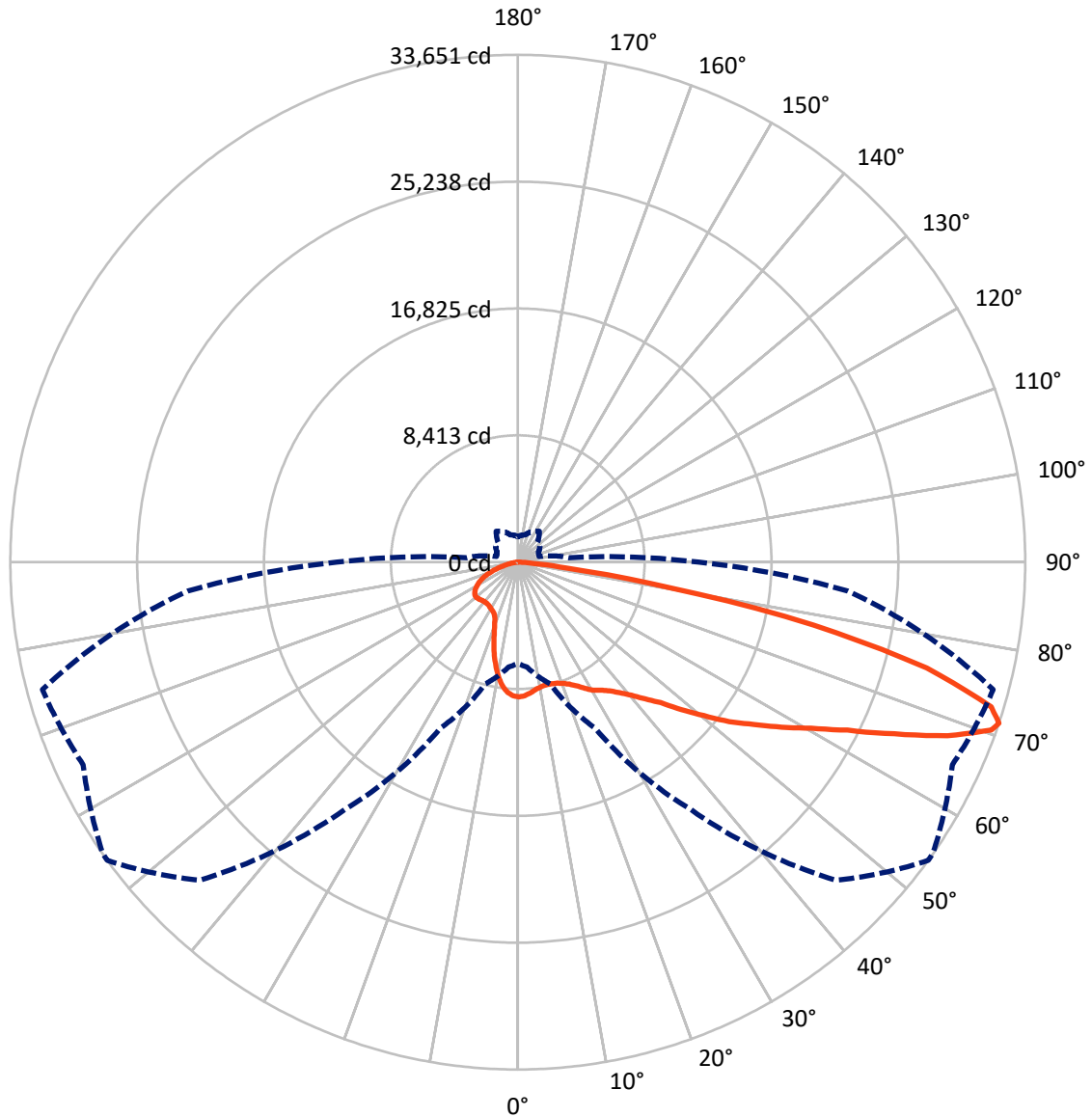
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.4 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	9047.2	0.0	9047.2
	% Fixture	18.1	0.0	18.1
<b>Street Side</b>	Lumens	41063.8	0.0	41063.8
	% Fixture	81.9	0.0	81.9
<b>Total</b>	Lumens	50111.0	0.0	50111.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	796.7	1.6
10°-20°	2103.8	4.2
20°-30°	3502.9	7.0
30°-40°	5179.6	10.3
40°-50°	7295.7	14.6
50°-60°	9769.3	19.5
60°-70°	12313.4	24.6
70°-80°	8410.0	16.8
80°-90°	739.6	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°	50111.0	100.0
0°-180°	50111.0	100.0

**Coefficient of Utilization**



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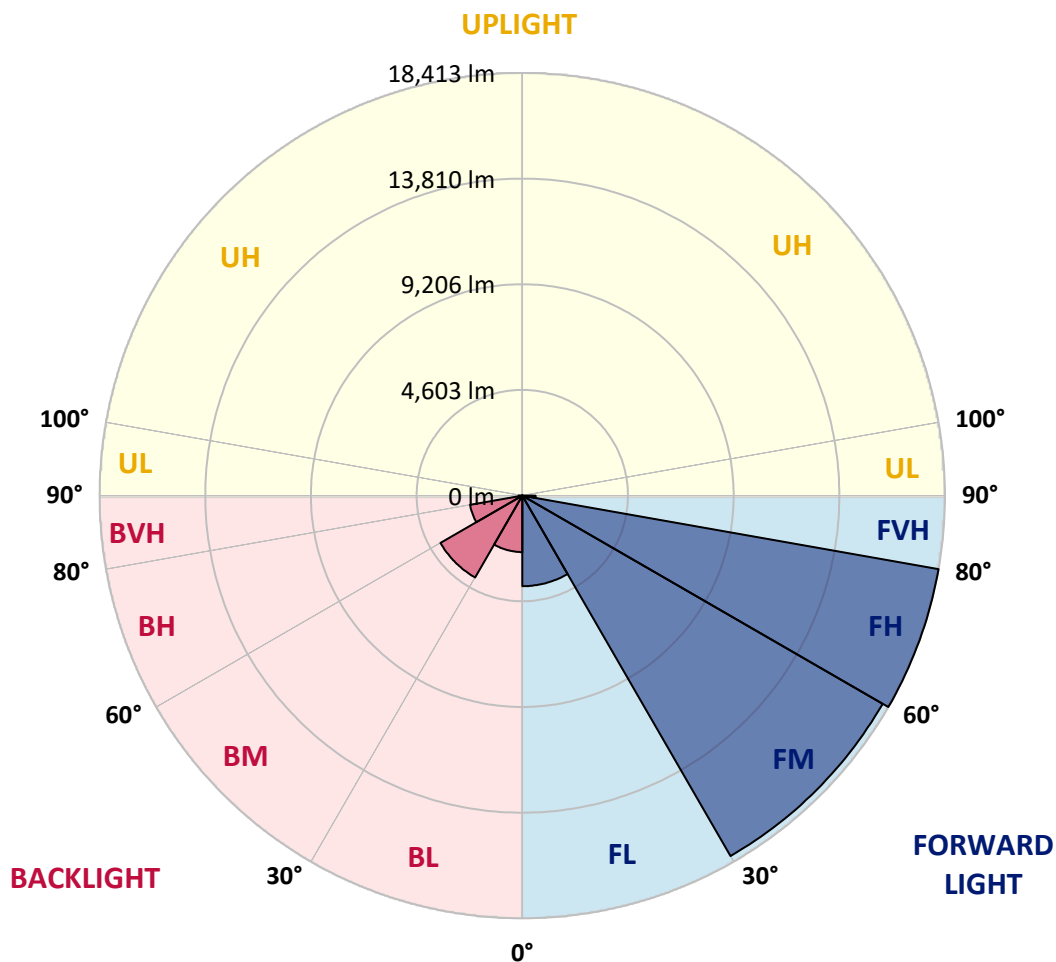
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3944.6	7.9			
FM	(30°-60°)	18128.4	36.2			
FH	(60°-80°)	18412.8	36.7			G5
FVH	(80°-90°)	578.1	1.2			G4/750
BL	(0°-30°)	2458.9	4.9	B3/2500		
BM	(30°-60°)	4116.2	8.2	B3/5000		
BH	(60°-80°)	2310.6	4.6	B3/2500		G3/2500
BVH	(80°-90°)	161.5	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°	8940.5	8940.5	8940.5	8940.5	8940.5	8940.5	8940.5	8940.5	8940.5	8940.5	8940.5
2.5°	8637.4	8678.0	8688.8	8715.9	8772.7	8818.7	8864.8	8859.3	8924.3	8951.4	8975.7
5°	8253.0	8263.8	8304.4	8358.6	8458.7	8586.0	8710.5	8713.2	8872.9	9000.1	9062.4
7.5°	7971.5	8006.7	8033.8	8090.6	8196.2	8334.2	8531.8	8548.1	8832.3	9084.0	9216.6
10°	7787.4	7828.1	7857.8	7928.2	8033.8	8188.1	8401.9	8431.7	8802.5	9216.6	9449.4
12.5°	7619.6	7660.2	7687.3	7779.3	7917.4	8106.9	8347.8	8382.9	8813.3	9370.9	9703.9
15°	7722.5	7755.0	7744.1	7771.2	7863.2	8079.8	8369.4	8404.6	8853.9	9519.8	9955.6
17.5°	8179.9	8207.0	8117.7	8014.8	7971.5	8131.2	8437.1	8475.0	8935.1	9674.1	10212.7
20°	8853.9	8927.0	8732.1	8502.0	8293.6	8315.3	8577.8	8618.4	9048.8	9828.4	10475.3
22.5°	9730.9	9785.1	9546.9	9167.9	8783.6	8586.0	8789.0	8813.3	9219.3	10028.7	10762.2
25°	10762.2	10794.7	10464.5	9977.2	9422.4	9048.8	9078.6	9121.9	9500.9	10256.0	11016.7
27.5°	11763.7	11866.6	11484.9	10889.4	10158.6	9536.0	9476.5	9503.6	9806.7	10383.3	11192.6
30°	12952.0	12943.9	12540.6	11850.3	10913.8	10066.6	9852.7	9847.3	9971.8	10445.5	11319.8
32.5°	13899.4	14010.4	13615.2	12862.7	11777.3	10616.1	10112.6	10101.8	10099.1	10553.8	11509.3
35°	14976.7	14992.9	14630.2	13872.3	12711.1	11306.3	10475.3	10421.2	10358.9	10786.6	11766.4
37.5°	15940.3	16016.1	15683.2	14833.2	13628.7	12023.6	10973.3	10938.2	10748.7	11189.9	12177.9
40°	16692.8	16749.6	16549.3	15740.0	14532.8	12797.7	11606.7	11541.8	11311.7	11850.3	12727.4
42.5°	16939.1	17055.5	17134.0	16736.1	15572.2	13715.3	12386.3	12305.1	12129.1	12851.9	13360.7
45°	16958.1	17142.1	17556.3	17575.2	16617.0	14814.3	13295.8	13238.9	13225.4	14134.9	14251.3
47.5°	16814.6	17001.4	17697.0	18073.3	17548.2	15924.1	14608.6	14519.2	14527.4	15721.1	15250.1
50°	16468.1	16690.1	17534.6	18392.7	18276.3	17077.2	15994.5	15964.7	16132.5	17531.9	16286.8
52.5°	15815.8	16083.8	17366.8	18593.0	18817.6	18070.6	17569.8	17485.9	17910.9	19497.0	17420.9
55°	14010.4	14413.7	16752.4	18704.0	19331.9	19020.6	18988.2	19139.7	19702.8	21640.8	18668.8
57.5°	13068.4	13371.6	15417.9	18722.9	19981.6	20125.0	20644.7	20682.6	21667.9	23917.2	20079.0
60°	12554.1	12822.1	14687.1	18598.4	20888.3	21492.0	22339.2	22474.5	23587.0	26383.1	21540.7
62.5°	12104.8	12334.9	14248.6	18168.0	21911.5	23519.3	24534.4	24599.4	25766.0	29106.2	22983.4
65°	11046.4	11309.0	13366.2	17737.6	22793.9	26052.9	27446.9	27371.1	28085.7	31455.7	23887.5
67.5°	9619.9	9952.9	11717.7	16251.6	23229.7	28822.0	30727.5	30632.8	30375.7	32995.8	24147.3
70°	7798.3	7976.9	9609.1	13682.8	21489.2	30275.5	33317.9	33217.8	31794.0	33198.8	22918.4
71°	6710.1	6988.9	8366.7	12153.5	20041.1	29831.6	33650.9	33623.8	31796.7	32638.5	21992.7
72.5°	5237.6	5408.2	6626.2	9416.9	17033.9	27308.9	32828.0	32930.9	31106.5	31082.1	20084.4
75°	3313.1	3388.9	4157.6	5543.5	9346.6	19340.1	28023.5	28302.3	27620.1	25441.2	14936.1
77.5°	1924.5	2022.0	2490.3	3267.1	4038.5	10497.0	20051.9	20355.1	19191.2	14007.7	6114.7
80°	1120.6	1228.9	1640.3	1897.5	1854.2	3895.1	10210.0	10727.0	8309.9	3537.8	1716.1
82.5°	622.6	695.6	1153.1	1155.8	988.0	1272.2	3213.0	3361.8	2371.2	1426.5	701.1
85°	452.0	511.6	744.4	674.0	473.7	546.8	1117.9	1172.0	958.2	600.9	227.4
87.5°	159.7	227.4	408.7	324.8	129.9	113.7	322.1	262.6	243.6	167.8	51.4
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°	8940.5	8940.5	8940.5	8940.5	8940.5	8940.5	8940.5	8940.5	8940.5	8940.5	8940.5
2.5°	8989.3	8994.7	8967.6	8918.9	8870.2	8807.9	8737.5	8683.4	8659.0	8656.3	8653.6
5°	9086.7	9100.2	8997.4	8845.8	8678.0	8472.3	8296.3	8096.0	8044.6	7963.4	7987.8
7.5°	9243.7	9235.6	9032.6	8710.5	8318.0	7882.2	7514.1	7300.2	7078.3	7016.0	7018.7
10°	9468.4	9416.9	9032.6	8434.4	7779.3	7132.4	6618.1	6293.3	6117.4	5971.2	5917.1
12.5°	9706.6	9576.6	8946.0	8047.3	7086.4	6293.3	5741.1	5302.6	5188.9	5069.8	5072.5
15°	9933.9	9717.4	8775.4	7503.2	6339.3	5397.3	4861.4	4598.8	4563.7	4577.2	4574.5
17.5°	10139.7	9817.5	8515.6	6896.9	5467.7	4628.6	4344.4	4363.4	4458.1	4525.8	4533.9
20°	10348.1	9877.1	8128.5	6084.9	4644.9	4163.1	4173.9	4322.8	4466.2	4558.2	4571.8
22.5°	10545.7	9904.2	7673.8	5299.9	4049.4	3965.5	4125.2	4284.9	4425.6	4514.9	4528.5
25°	10675.6	9841.9	7029.5	4479.7	3757.0	3895.1	4062.9	4198.2	4317.3	4409.4	4431.0
27.5°	10710.8	9641.6	6231.0	3816.6	3621.7	3827.4	3981.7	4081.8	4173.9	4260.5	4276.7
30°	10691.8	9346.6	5354.0	3426.8	3543.2	3748.9	3868.0	3941.1	4052.1	4119.7	4133.3
32.5°	10662.1	9002.8	4439.1	3218.4	3478.2	3675.8	3746.2	3811.2	3808.5	3781.4	3800.3
35°	10672.9	8591.4	3697.5	3093.9	3421.4	3621.7	3681.2	3600.0	3367.3	3356.4	3345.6
37.5°	10729.7	8185.3	3158.8	3007.2	3391.6	3613.6	3646.1	3272.5	3066.8	2972.1	2947.7
40°	10875.9	7711.7	2804.2	2942.3	3388.9	3675.8	3486.4	3107.4	2712.2	2528.1	2514.6
42.5°	11070.8	7246.1	2587.7	2901.7	3421.4	3770.6	3421.4	2874.6	2444.2	2336.0	2319.7
45°	11360.4	6712.9	2468.6	2882.7	3470.1	3805.8	3399.7	2704.1	2336.0	2249.3	2249.3
47.5°	11687.9	6204.0	2403.6	2869.2	3532.4	3781.4	3207.6	2650.0	2284.5	2295.4	2346.8
50°	12012.8	5762.8	2354.9	2839.4	3586.5	3767.9	3129.1	2647.2	2298.1	2436.1	2528.1
52.5°	12389.0	5451.5	2295.4	2790.7	3586.5	3681.2	3104.7	2701.4	2336.0	2376.6	2417.2
55°	12843.7	5354.0	2219.6	2685.1	3521.5	3464.7	3091.2	2779.9	2363.0	2268.3	2284.5
57.5°	13444.7	5511.0	2146.5	2552.5	3372.7	3240.0	3085.7	2801.5	2300.8	2222.3	2206.0
60°	14143.0	5822.3	2124.8	2417.2	3169.7	3047.9	3053.3	2739.3	2214.2	2133.0	2146.5
62.5°	14632.9	6009.1	2111.3	2314.3	2947.7	2836.7	2974.8	2663.5	2176.3	2105.9	2119.4
65°	14632.9	5781.7	1986.8	2157.3	2660.8	2582.3	2880.0	2568.7	2127.5	2046.3	2032.8
67.5°	14078.0	5118.5	1797.3	1921.8	2344.1	2292.7	2747.4	2455.1	2054.5	1992.2	1959.7
70°	12632.6	3881.5	1559.1	1645.7	1943.5	1989.5	2576.9	2300.8	1932.7	1856.9	1808.1
71°	11996.5	3380.8	1459.0	1505.0	1789.2	1856.9	2495.7	2235.8	1878.5	1770.2	1683.6
72.5°	10770.3	2847.5	1307.4	1326.3	1529.3	1651.1	2325.1	2111.3	1775.7	1621.4	1523.9
75°	8182.6	2078.8	1052.9	1042.1	1131.4	1310.1	1967.8	1881.2	1556.4	1348.0	1291.1
77.5°	3535.1	1131.4	787.7	795.8	768.7	993.4	1548.3	1616.0	1334.5	1096.3	1044.8
80°	1071.9	652.3	538.7	549.5	514.3	665.9	1090.8	1266.8	1071.9	852.6	782.3
82.5°	549.5	389.8	368.1	362.7	327.5	376.2	660.5	866.2	766.0	533.2	471.0
85°	238.2	208.4	181.4	175.9	154.3	135.3	235.5	433.1	406.0	297.7	284.2
87.5°	59.5	54.1	35.2	32.5	18.9	2.7	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)