

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: P457899

Luminaire Tested: **GALN-SA9B-730-U-T3R**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P457899  
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-SA9B-730-U-T3R  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 48075 lumens  
Efficiency: N/A  
Efficacy: 132.1 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): 364  
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

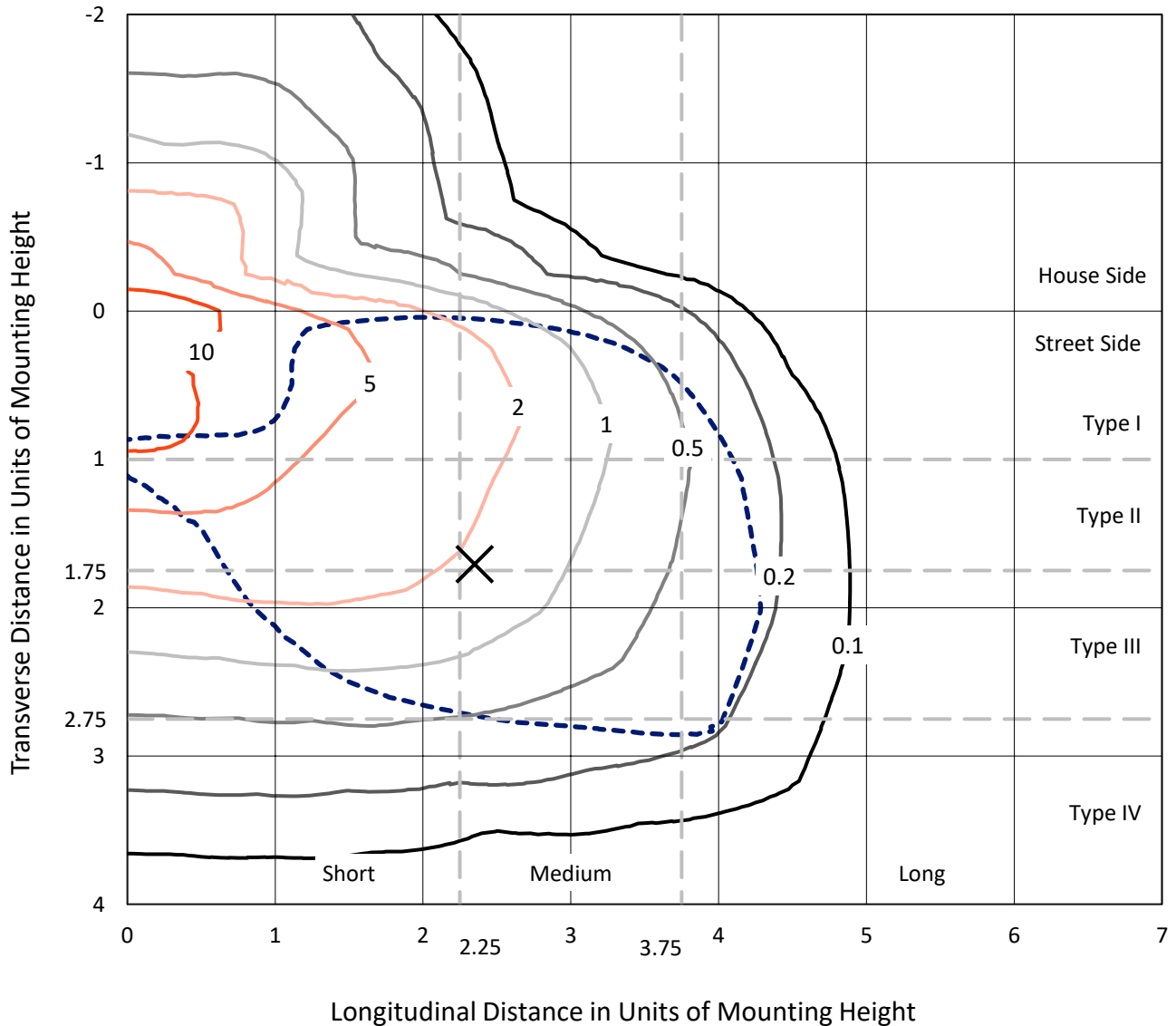




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### Iso-Footcandle Lines of Horizontal Illumination

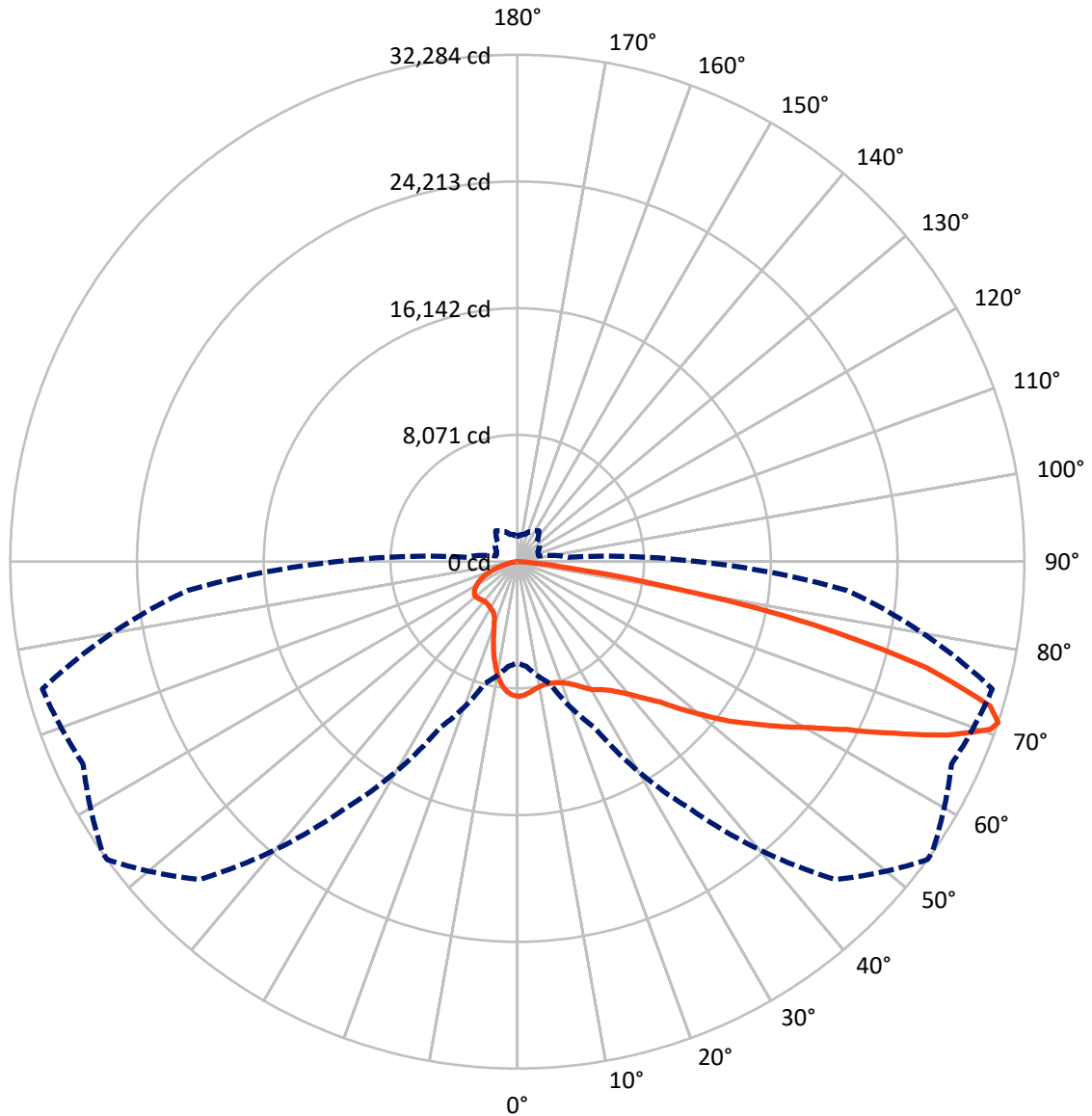
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.8 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	8679.6	0.0	8679.6
	% Fixture	18.1	0.0	18.1
<b>Street Side</b>	Lumens	39395.4	0.0	39395.4
	% Fixture	81.9	0.0	81.9
<b>Total</b>	Lumens	48075.0	0.0	48075.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	764.4	1.6
10°-20°	2018.3	4.2
20°-30°	3360.6	7.0
30°-40°	4969.2	10.3
40°-50°	6999.3	14.6
50°-60°	9372.3	19.5
60°-70°	11813.1	24.6
70°-80°	8068.3	16.8
80°-90°	709.6	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°	48075.0	100.0
0°-180°	48075.0	100.0

**Coefficient of Utilization**



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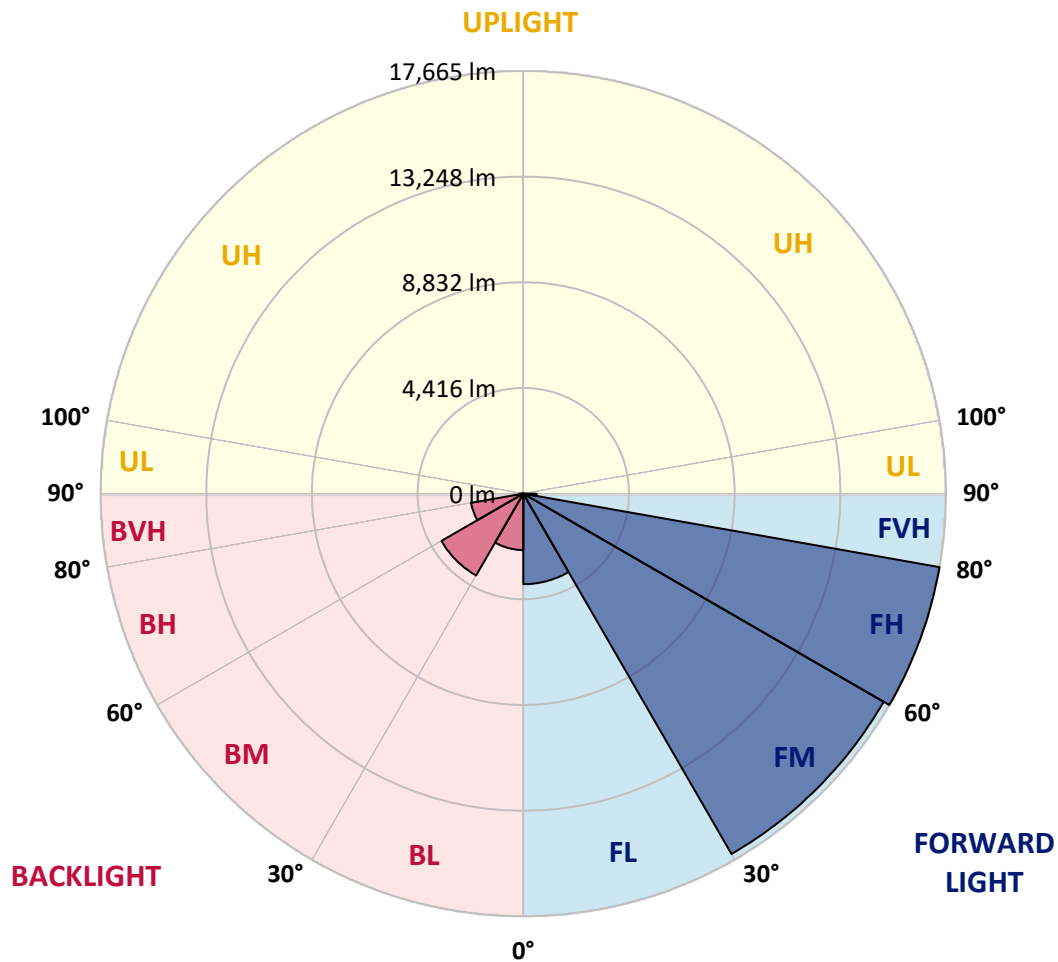
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3784.3	7.9			
FM	(30°-60°)	17391.8	36.2			
FH	(60°-80°)	17664.6	36.7			G5
FVH	(80°-90°)	554.6	1.2			G4/750
BL	(0°-30°)	2359.0	4.9	B3/2500		
BM	(30°-60°)	3949.0	8.2	B3/5000		
BH	(60°-80°)	2216.8	4.6	B3/2500		G3/2500
BVH	(80°-90°)	154.9	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°	8577.3	8577.3	8577.3	8577.3	8577.3	8577.3	8577.3	8577.3	8577.3	8577.3	8577.3
2.5°	8286.4	8325.4	8335.8	8361.8	8416.3	8460.4	8504.6	8499.4	8561.7	8587.7	8611.1
5°	7917.7	7928.1	7967.0	8019.0	8115.1	8237.1	8356.6	8359.2	8512.4	8634.4	8694.1
7.5°	7647.6	7681.4	7707.4	7761.9	7863.2	7995.6	8185.2	8200.8	8473.4	8714.9	8842.2
10°	7471.0	7510.0	7538.6	7606.1	7707.4	7855.4	8060.5	8089.1	8444.9	8842.2	9065.5
12.5°	7310.0	7349.0	7375.0	7463.3	7595.7	7777.5	8008.6	8042.3	8455.2	8990.2	9309.6
15°	7408.7	7439.9	7429.5	7455.5	7543.8	7751.5	8029.4	8063.1	8494.2	9133.0	9551.1
17.5°	7847.6	7873.6	7787.9	7689.2	7647.6	7800.8	8094.3	8130.6	8572.1	9281.0	9797.8
20°	8494.2	8564.3	8377.3	8156.6	7956.7	7977.4	8229.3	8268.3	8681.2	9429.0	10049.7
22.5°	9335.6	9387.5	9159.0	8795.4	8426.7	8237.1	8431.9	8455.2	8844.8	9621.2	10325.0
25°	10325.0	10356.1	10039.3	9571.9	9039.5	8681.2	8709.7	8751.3	9114.8	9839.3	10569.1
27.5°	11285.8	11384.5	11018.3	10447.0	9745.9	9148.6	9091.5	9117.4	9408.3	9961.4	10737.8
30°	12425.8	12418.0	12031.1	11368.9	10470.4	9657.6	9452.4	9447.2	9566.7	10021.1	10859.9
32.5°	13334.7	13441.1	13062.0	12340.1	11298.8	10184.7	9701.7	9691.3	9688.7	10125.0	11041.7
35°	14368.2	14383.8	14035.8	13308.7	12194.7	10846.9	10049.7	9997.8	9938.0	10348.3	11288.4
37.5°	15292.7	15365.4	15046.0	14230.6	13075.0	11535.1	10527.5	10493.7	10312.0	10735.2	11683.1
40°	16014.6	16069.1	15876.9	15100.5	13942.3	12277.8	11135.2	11072.8	10852.1	11368.9	12210.2
42.5°	16250.9	16362.6	16437.9	16056.1	14939.5	13158.1	11883.0	11805.1	11636.3	12329.7	12817.9
45°	16269.1	16445.7	16843.0	16861.1	15941.9	14212.4	12755.6	12701.0	12688.1	13560.6	13672.2
47.5°	16131.4	16310.6	16978.0	17339.0	16835.2	15277.1	14015.0	13929.3	13937.1	15082.3	14630.5
50°	15799.0	16012.0	16822.2	17645.4	17533.7	16383.3	15344.6	15316.0	15477.0	16819.6	15625.1
52.5°	15173.2	15430.3	16661.2	17837.5	18053.1	17336.4	16855.9	16775.4	17183.1	18704.9	16713.1
55°	13441.1	13828.1	16071.7	17944.0	18546.5	18247.8	18216.7	18362.1	18902.2	20761.6	17910.3
57.5°	12537.4	12828.3	14791.5	17962.2	19169.7	19307.3	19805.9	19842.3	20787.5	22945.5	19263.2
60°	12044.0	12301.1	14090.3	17842.7	20039.6	20618.7	21431.5	21561.4	22628.7	25311.2	20665.5
62.5°	11613.0	11833.7	13669.7	17429.8	21021.2	22563.8	23537.6	23599.9	24719.1	27923.6	22049.6
65°	10597.6	10849.5	12823.1	17017.0	21867.8	24994.4	26331.7	26259.0	26944.6	30177.6	22916.9
67.5°	9229.1	9548.5	11241.6	15591.3	22285.9	27650.9	29479.1	29388.2	29141.5	31655.2	23166.2
70°	7481.4	7652.8	9218.7	13126.9	20616.1	29045.4	31964.2	31868.2	30502.2	31850.0	21987.3
71°	6437.5	6705.0	8026.8	11659.7	19226.8	28619.5	32283.6	32257.7	30504.8	31312.4	21099.2
72.5°	5024.8	5188.4	6357.0	9034.3	16341.8	26199.3	31494.2	31592.9	29842.6	29819.3	19268.4
75°	3178.5	3251.2	3988.7	5318.3	8966.8	18554.3	26884.9	27152.3	26497.9	24407.5	14329.2
77.5°	1846.3	1939.8	2389.1	3134.4	3874.5	10070.5	19237.2	19528.1	18411.4	13438.5	5866.2
80°	1075.1	1179.0	1573.7	1820.4	1778.8	3736.8	9795.2	10291.2	7972.2	3394.0	1646.4
82.5°	597.3	667.4	1106.2	1108.8	947.8	1220.5	3082.4	3225.2	2274.8	1368.5	672.6
85°	433.7	490.8	714.1	646.6	454.4	524.6	1072.5	1124.4	919.3	576.5	218.1
87.5°	153.2	218.1	392.1	311.6	124.6	109.1	309.0	251.9	233.7	161.0	49.3
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°	8577.3	8577.3	8577.3	8577.3	8577.3	8577.3	8577.3	8577.3	8577.3	8577.3	8577.3
2.5°	8624.0	8629.2	8603.3	8556.5	8509.8	8450.0	8382.5	8330.6	8307.2	8304.6	8302.0
5°	8717.5	8730.5	8631.8	8486.4	8325.4	8128.0	7959.2	7767.1	7717.7	7639.8	7663.2
7.5°	8868.1	8860.3	8665.6	8356.6	7980.0	7561.9	7208.8	7003.6	6790.7	6731.0	6733.6
10°	9083.7	9034.3	8665.6	8091.7	7463.3	6842.6	6349.2	6037.6	5868.8	5728.6	5676.6
12.5°	9312.2	9187.5	8582.5	7720.3	6798.5	6037.6	5507.9	5087.2	4978.1	4863.8	4866.4
15°	9530.3	9322.6	8418.9	7198.4	6081.7	5178.1	4663.9	4412.0	4378.2	4391.2	4388.6
17.5°	9727.7	9418.7	8169.6	6616.7	5245.6	4440.6	4167.9	4186.1	4277.0	4341.9	4349.7
20°	9927.6	9475.8	7798.2	5837.6	4456.1	3993.9	4004.3	4147.1	4284.8	4373.0	4386.0
22.5°	10117.2	9501.8	7362.0	5084.6	3884.8	3804.3	3957.6	4110.8	4245.8	4331.5	4344.5
25°	10241.9	9442.0	6743.9	4297.7	3604.4	3736.8	3897.8	4027.7	4141.9	4230.2	4251.0
27.5°	10275.6	9249.9	5977.9	3661.5	3474.5	3671.9	3819.9	3916.0	4004.3	4087.4	4103.0
30°	10257.4	8966.8	5136.5	3287.6	3399.2	3596.6	3710.9	3781.0	3887.4	3952.4	3965.3
32.5°	10228.9	8637.0	4258.8	3087.6	3336.9	3526.5	3594.0	3656.3	3653.7	3627.8	3645.9
35°	10239.3	8242.3	3547.3	2968.2	3282.4	3474.5	3531.7	3453.8	3230.4	3220.1	3209.7
37.5°	10293.8	7852.8	3030.5	2885.1	3253.8	3466.8	3497.9	3139.6	2942.2	2851.3	2827.9
40°	10434.0	7398.3	2690.3	2822.7	3251.2	3526.5	3344.7	2981.1	2602.0	2425.4	2412.4
42.5°	10621.0	6951.7	2482.6	2783.8	3282.4	3617.4	3282.4	2757.8	2344.9	2241.1	2225.5
45°	10898.8	6440.1	2368.3	2765.6	3329.1	3651.1	3261.6	2594.2	2241.1	2158.0	2158.0
47.5°	11213.1	5951.9	2306.0	2752.6	3388.8	3627.8	3077.2	2542.3	2191.7	2202.1	2251.4
50°	11524.7	5528.6	2259.2	2724.1	3440.8	3614.8	3001.9	2539.7	2204.7	2337.1	2425.4
52.5°	11885.6	5230.0	2202.1	2677.3	3440.8	3531.7	2978.6	2591.6	2241.1	2280.0	2319.0
55°	12321.9	5136.5	2129.4	2576.0	3378.5	3323.9	2965.6	2666.9	2267.0	2176.1	2191.7
57.5°	12898.4	5287.1	2059.3	2448.8	3235.6	3108.4	2960.4	2687.7	2207.3	2132.0	2116.4
60°	13568.4	5585.8	2038.5	2319.0	3040.9	2924.0	2929.2	2628.0	2124.2	2046.3	2059.3
62.5°	14038.4	5764.9	2025.5	2220.3	2827.9	2721.5	2853.9	2555.3	2087.8	2020.3	2033.3
65°	14038.4	5546.8	1906.1	2069.7	2552.7	2477.4	2763.0	2464.4	2041.1	1963.2	1950.2
67.5°	13506.1	4910.6	1724.3	1843.7	2248.8	2199.5	2635.8	2355.3	1971.0	1911.3	1880.1
70°	12119.4	3723.8	1495.8	1578.9	1864.5	1908.7	2472.2	2207.3	1854.1	1781.4	1734.7
71°	11509.1	3243.4	1399.7	1443.8	1716.5	1781.4	2394.3	2145.0	1802.2	1698.3	1615.2
72.5°	10332.7	2731.9	1254.3	1272.4	1467.2	1584.1	2230.7	2025.5	1703.5	1555.5	1462.0
75°	7850.2	1994.4	1010.2	999.8	1085.5	1256.9	1887.9	1804.8	1493.2	1293.2	1238.7
77.5°	3391.4	1085.5	755.7	763.5	737.5	953.0	1485.4	1550.3	1280.2	1051.7	1002.4
80°	1028.3	625.8	516.8	527.2	493.4	638.8	1046.5	1215.3	1028.3	818.0	750.5
82.5°	527.2	373.9	353.2	348.0	314.2	361.0	633.6	831.0	734.9	511.6	451.8
85°	228.5	200.0	174.0	168.8	148.0	129.8	225.9	415.5	389.5	285.7	272.7
87.5°	57.1	51.9	33.8	31.2	18.2	2.6	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)