

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: P457870

Luminaire Tested: **GALN-SA9B-727-U-T3R**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P457870  
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-727-U-T3R  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 2700K, 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: 44147 lumens  
Efficiency: N/A  
Efficacy: 121.3 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

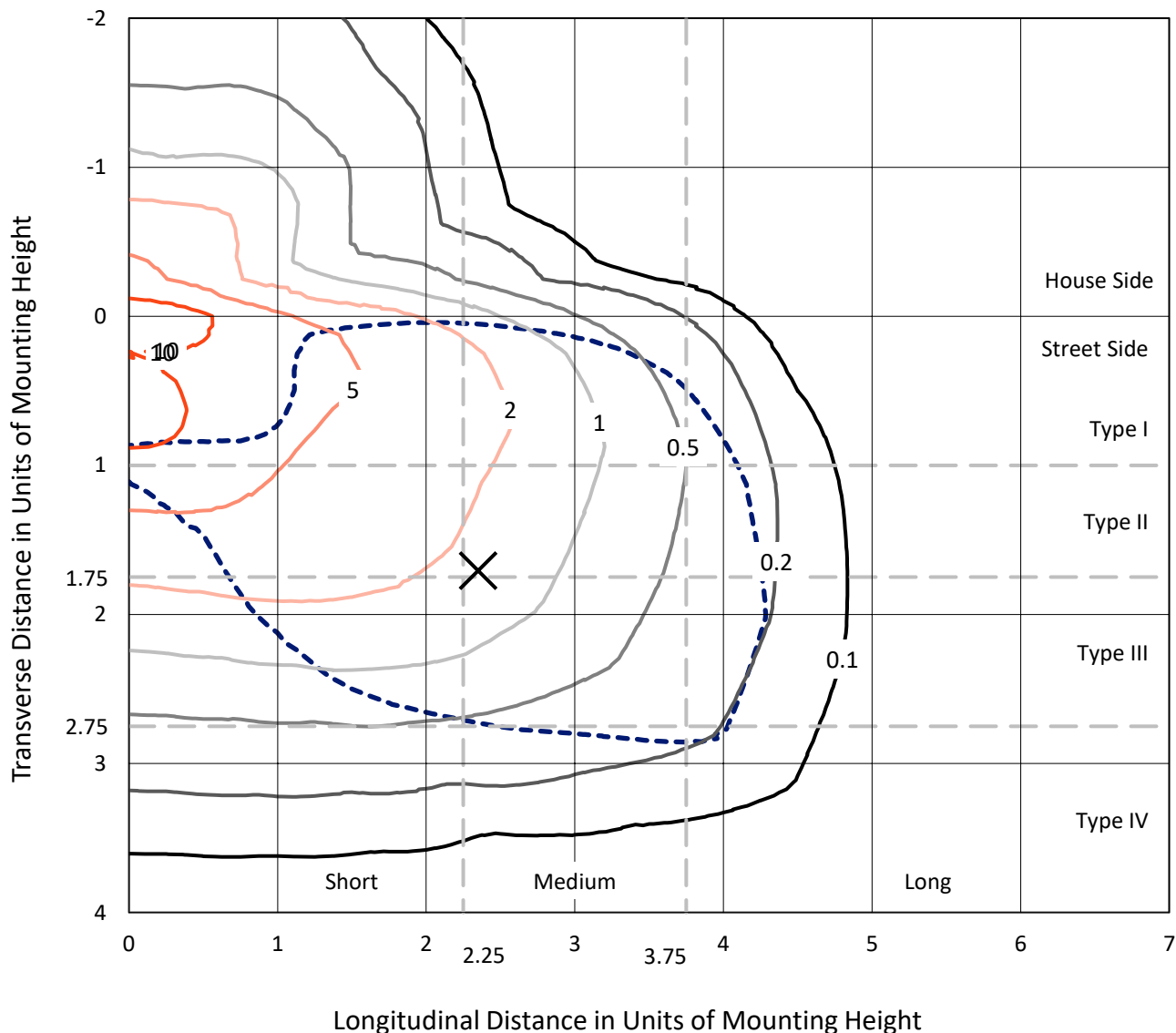
Input Watts (W): 364  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

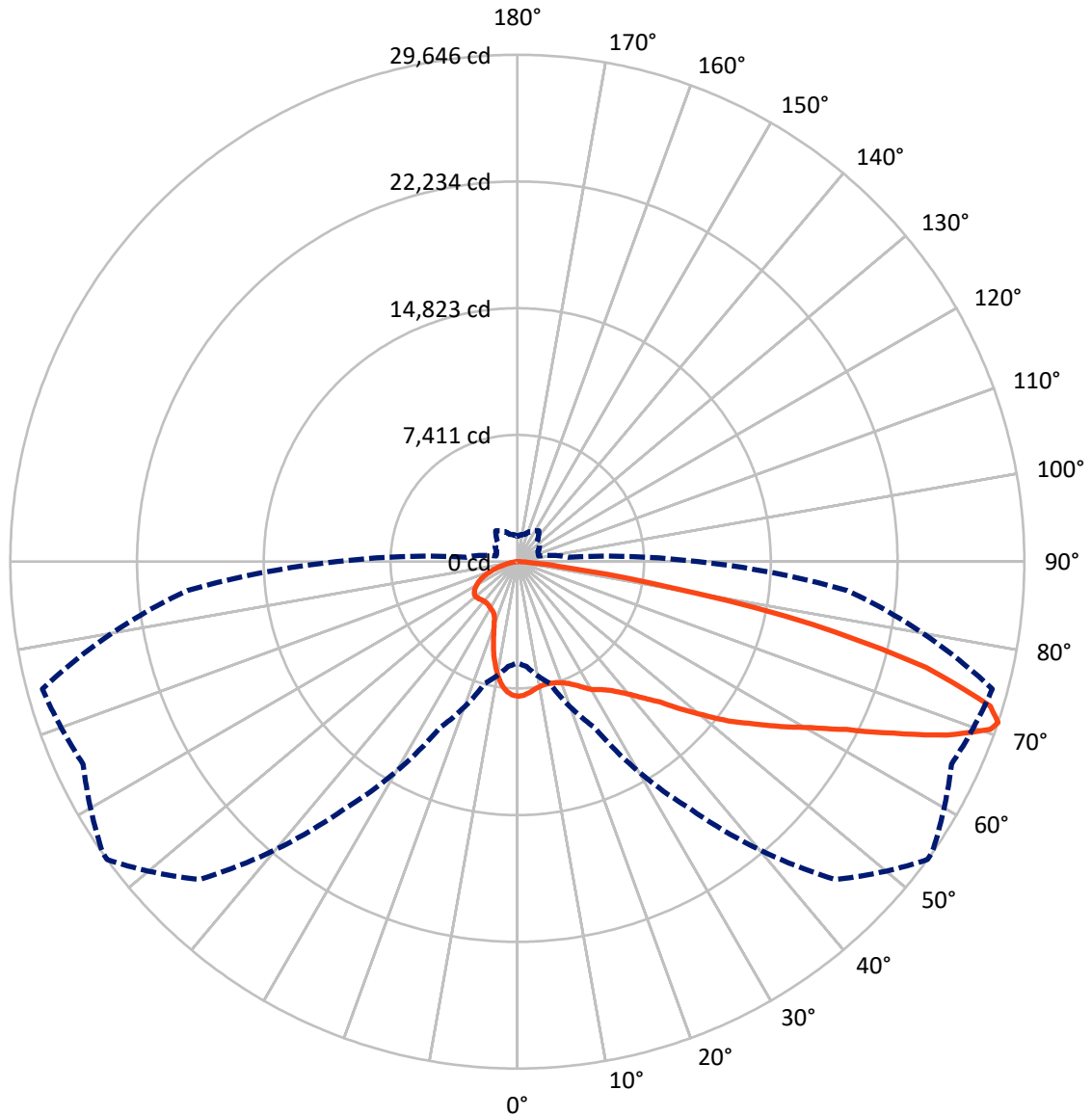
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.7 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	7970.5	0.0	7970.5
	% Fixture	18.1	0.0	18.1
<b>Street Side</b>	Lumens	36176.5	0.0	36176.5
	% Fixture	81.9	0.0	81.9
<b>Total</b>	Lumens	44147.0	0.0	44147.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	701.9	1.6
10°-20°	1853.4	4.2
20°-30°	3086.0	7.0
30°-40°	4563.2	10.3
40°-50°	6427.4	14.6
50°-60°	8606.6	19.5
60°-70°	10847.9	24.6
70°-80°	7409.1	16.8
80°-90°	651.6	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°	44147.0	100.0
0°-180°	44147.0	100.0

**Coefficient of Utilization**



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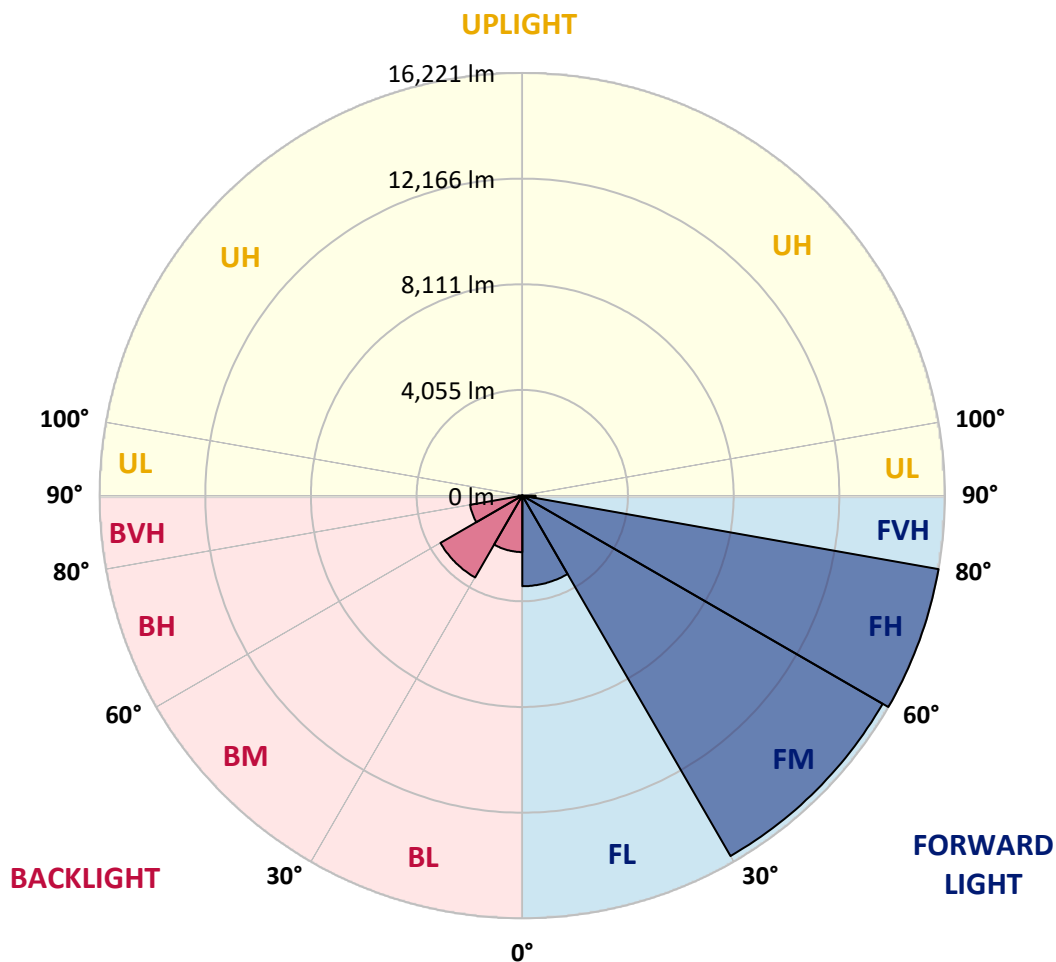
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3475.1	7.9			
FM	(30°-60°)	15970.8	36.2			
FH	(60°-80°)	16221.3	36.7			G5
FVH	(80°-90°)	509.3	1.2			G4/750
BL	(0°-30°)	2166.2	4.9	B3/2500		
BM	(30°-60°)	3626.3	8.2	B3/5000		
BH	(60°-80°)	2035.6	4.6	B3/2500		G3/2500
BVH	(80°-90°)	142.3	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°	7876.5	7876.5	7876.5	7876.5	7876.5	7876.5	7876.5	7876.5	7876.5	7876.5	7876.5
2.5°	7609.4	7645.2	7654.7	7678.6	7728.6	7769.2	7809.7	7804.9	7862.2	7886.0	7907.5
5°	7270.8	7280.3	7316.1	7363.8	7452.0	7564.1	7673.8	7676.2	7816.9	7928.9	7983.8
7.5°	7022.8	7053.8	7077.6	7127.7	7220.7	7342.3	7516.4	7530.7	7781.1	8002.9	8119.7
10°	6860.6	6896.4	6922.6	6984.6	7077.6	7213.5	7401.9	7428.2	7754.9	8119.7	8324.8
12.5°	6712.8	6748.5	6772.4	6853.5	6975.1	7142.0	7354.2	7385.2	7764.4	8255.6	8548.9
15°	6803.4	6832.0	6822.5	6846.3	6927.4	7118.2	7373.3	7404.3	7800.2	8386.8	8770.7
17.5°	7206.4	7230.2	7151.5	7060.9	7022.8	7163.5	7432.9	7466.3	7871.7	8522.7	8997.3
20°	7800.2	7864.6	7692.9	7490.2	7306.5	7325.6	7556.9	7592.7	7971.9	8658.6	9228.6
22.5°	8572.8	8620.5	8410.6	8076.8	7738.2	7564.1	7742.9	7764.4	8122.1	8835.1	9481.3
25°	9481.3	9510.0	9219.0	8789.8	8300.9	7971.9	7998.1	8036.2	8370.1	9035.4	9705.5
27.5°	10363.7	10454.3	10118.0	9593.4	8949.6	8401.1	8348.6	8372.5	8639.6	9147.5	9860.5
30°	11410.5	11403.4	11048.1	10440.0	9614.9	8868.5	8680.1	8675.3	8785.0	9202.3	9972.6
32.5°	12245.1	12342.9	11994.8	11331.8	10375.6	9352.6	8909.0	8899.5	8897.1	9297.7	10139.5
35°	13194.2	13208.5	12889.0	12221.3	11198.3	9960.7	9228.6	9180.9	9126.0	9502.8	10366.0
37.5°	14043.2	14109.9	13816.6	13067.8	12006.7	10592.6	9667.3	9636.3	9469.4	9858.1	10728.5
40°	14706.1	14756.2	14579.7	13866.7	12803.2	11274.6	10225.4	10168.1	9965.4	10440.0	11212.6
42.5°	14923.1	15025.6	15094.8	14744.3	13718.9	12083.0	10912.1	10840.6	10685.6	11322.3	11770.6
45°	14939.8	15101.9	15466.8	15483.5	14639.3	13051.2	11713.4	11663.3	11651.4	12452.6	12555.1
47.5°	14813.4	14977.9	15590.8	15922.3	15459.6	14028.9	12869.9	12791.2	12798.4	13850.0	13435.1
50°	14508.2	14703.7	15447.7	16203.7	16101.1	15044.7	14090.9	14064.6	14212.5	15445.3	14348.4
52.5°	13933.5	14169.6	15299.9	16380.1	16578.0	15919.9	15478.7	15404.8	15779.2	17176.6	15347.6
55°	12342.9	12698.2	14758.6	16477.9	17031.1	16756.9	16728.3	16861.8	17357.8	19065.2	16446.9
57.5°	11513.1	11780.1	13582.9	16494.6	17603.4	17729.8	18187.7	18221.1	19089.1	21070.7	17689.3
60°	11060.0	11296.1	12939.1	16384.9	18402.3	18934.1	19680.5	19799.7	20779.8	23243.1	18977.0
62.5°	10664.1	10866.8	12552.8	16005.7	19303.7	20720.2	21614.4	21671.6	22699.4	25642.1	20248.0
65°	9731.7	9963.0	11775.4	15626.6	20081.1	22952.2	24180.3	24113.5	24743.1	27711.9	21044.5
67.5°	8475.0	8768.3	10323.1	14317.4	20465.0	25391.7	27070.5	26987.0	26760.5	29068.8	21273.4
70°	6870.2	7027.5	8465.5	12054.4	18931.7	26672.2	29352.6	29264.3	28010.0	29247.7	20190.8
71°	5911.5	6157.2	7370.9	10707.1	17655.9	26281.2	29645.9	29622.0	28012.4	28754.0	19375.2
72.5°	4614.3	4764.5	5837.6	8296.2	15006.6	24058.7	28921.0	29011.6	27404.3	27382.9	17694.1
75°	2918.8	2985.6	3662.8	4883.8	8234.2	17038.3	24688.2	24933.8	24332.9	22413.3	13158.5
77.5°	1695.5	1781.3	2193.9	2878.3	3557.9	9247.6	17665.4	17932.5	16907.1	12340.5	5386.9
80°	987.2	1082.6	1445.1	1671.6	1633.5	3431.5	8994.9	9450.3	7320.9	3116.7	1511.9
82.5°	548.5	612.9	1015.9	1018.2	870.4	1120.8	2830.6	2961.7	2088.9	1256.7	617.6
85°	398.2	450.7	655.8	593.8	417.3	481.7	984.9	1032.6	844.2	529.4	200.3
87.5°	140.7	200.3	360.1	286.2	114.5	100.2	283.8	231.3	214.6	147.8	45.3
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°	7876.5	7876.5	7876.5	7876.5	7876.5	7876.5	7876.5	7876.5	7876.5	7876.5	7876.5
2.5°	7919.4	7924.2	7900.3	7857.4	7814.5	7759.6	7697.6	7649.9	7628.5	7626.1	7623.7
5°	8005.2	8017.2	7926.6	7793.0	7645.2	7463.9	7308.9	7132.5	7087.2	7015.6	7037.1
7.5°	8143.6	8136.4	7957.6	7673.8	7328.0	6944.1	6619.8	6431.4	6235.8	6181.0	6183.4
10°	8341.5	8296.2	7957.6	7430.6	6853.5	6283.5	5830.5	5544.3	5389.3	5260.5	5212.8
12.5°	8551.3	8436.9	7881.2	7089.5	6243.0	5544.3	5057.8	4671.5	4571.4	4466.4	4468.8
15°	8751.6	8560.9	7731.0	6610.2	5584.8	4755.0	4282.8	4051.5	4020.5	4032.4	4030.0
17.5°	8932.9	8649.1	7502.1	6076.1	4817.0	4077.7	3827.4	3844.0	3927.5	3987.1	3994.3
20°	9116.5	8701.6	7161.1	5360.7	4092.0	3667.6	3677.1	3808.3	3934.7	4015.7	4027.7
22.5°	9290.6	8725.4	6760.5	4669.1	3567.4	3493.5	3634.2	3774.9	3898.9	3977.6	3989.5
25°	9405.0	8670.6	6192.9	3946.6	3309.9	3431.5	3579.4	3698.6	3803.5	3884.6	3903.7
27.5°	9436.0	8494.1	5489.5	3362.3	3190.7	3371.9	3507.8	3596.0	3677.1	3753.4	3767.7
30°	9419.3	8234.2	4716.8	3019.0	3121.5	3302.7	3407.7	3472.0	3569.8	3629.4	3641.4
32.5°	9393.1	7931.3	3910.8	2835.3	3064.3	3238.3	3300.3	3357.6	3355.2	3331.3	3348.0
35°	9402.7	7568.9	3257.4	2725.6	3014.2	3190.7	3243.1	3171.6	2966.5	2957.0	2947.4
37.5°	9452.7	7211.2	2782.9	2649.3	2988.0	3183.5	3212.1	2883.0	2701.8	2618.3	2596.9
40°	9581.5	6793.9	2470.5	2592.1	2985.6	3238.3	3071.4	2737.6	2389.4	2227.3	2215.3
42.5°	9753.2	6383.7	2279.7	2556.3	3014.2	3321.8	3014.2	2532.5	2153.3	2057.9	2043.6
45°	10008.4	5913.9	2174.8	2539.6	3057.1	3352.8	2995.1	2382.3	2057.9	1981.6	1981.6
47.5°	10296.9	5465.6	2117.6	2527.7	3112.0	3331.3	2825.8	2334.6	2012.6	2022.2	2067.5
50°	10583.0	5076.9	2074.6	2501.5	3159.7	3319.4	2756.6	2332.2	2024.6	2146.2	2227.3
52.5°	10914.5	4802.7	2022.2	2458.6	3159.7	3243.1	2735.2	2379.9	2057.9	2093.7	2129.5
55°	11315.1	4716.8	1955.4	2365.6	3102.4	3052.3	2723.3	2449.0	2081.8	1998.3	2012.6
57.5°	11844.5	4855.1	1891.0	2248.7	2971.3	2854.4	2718.5	2468.1	2026.9	1957.8	1943.5
60°	12459.8	5129.4	1871.9	2129.5	2792.4	2685.1	2689.9	2413.3	1950.6	1879.1	1891.0
62.5°	12891.4	5293.9	1860.0	2038.9	2596.9	2499.1	2620.7	2346.5	1917.3	1855.3	1867.2
65°	12891.4	5093.6	1750.3	1900.6	2344.1	2275.0	2537.3	2263.0	1874.3	1802.8	1790.9
67.5°	12402.5	4509.4	1583.4	1693.1	2065.1	2019.8	2420.4	2162.9	1809.9	1755.1	1726.5
70°	11129.1	3419.6	1373.6	1449.9	1712.2	1752.7	2270.2	2026.9	1702.6	1635.9	1592.9
71°	10568.7	2978.4	1285.3	1325.9	1576.2	1635.9	2198.6	1969.7	1654.9	1559.6	1483.2
72.5°	9488.5	2508.6	1151.8	1168.5	1347.3	1454.6	2048.4	1860.0	1564.3	1428.4	1342.6
75°	7208.8	1831.4	927.6	918.1	996.8	1154.2	1733.6	1657.3	1371.2	1187.6	1137.5
77.5°	3114.3	996.8	693.9	701.1	677.2	875.2	1364.0	1423.6	1175.6	965.8	920.5
80°	944.3	574.7	474.5	484.1	453.1	586.6	961.0	1116.0	944.3	751.2	689.2
82.5°	484.1	343.4	324.3	319.5	288.5	331.5	581.9	763.1	674.9	469.8	414.9
85°	209.8	183.6	159.8	155.0	135.9	119.2	207.5	381.5	357.7	262.3	250.4
87.5°	52.5	47.7	31.0	28.6	16.7	2.4	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)