

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: P456762

Luminaire Tested: **GALN-SA8A-740-U-T2**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P456762  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-10)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA8A-740-U-T2  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 37138 lumens  
Efficiency: N/A  
Efficacy: 152.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G5

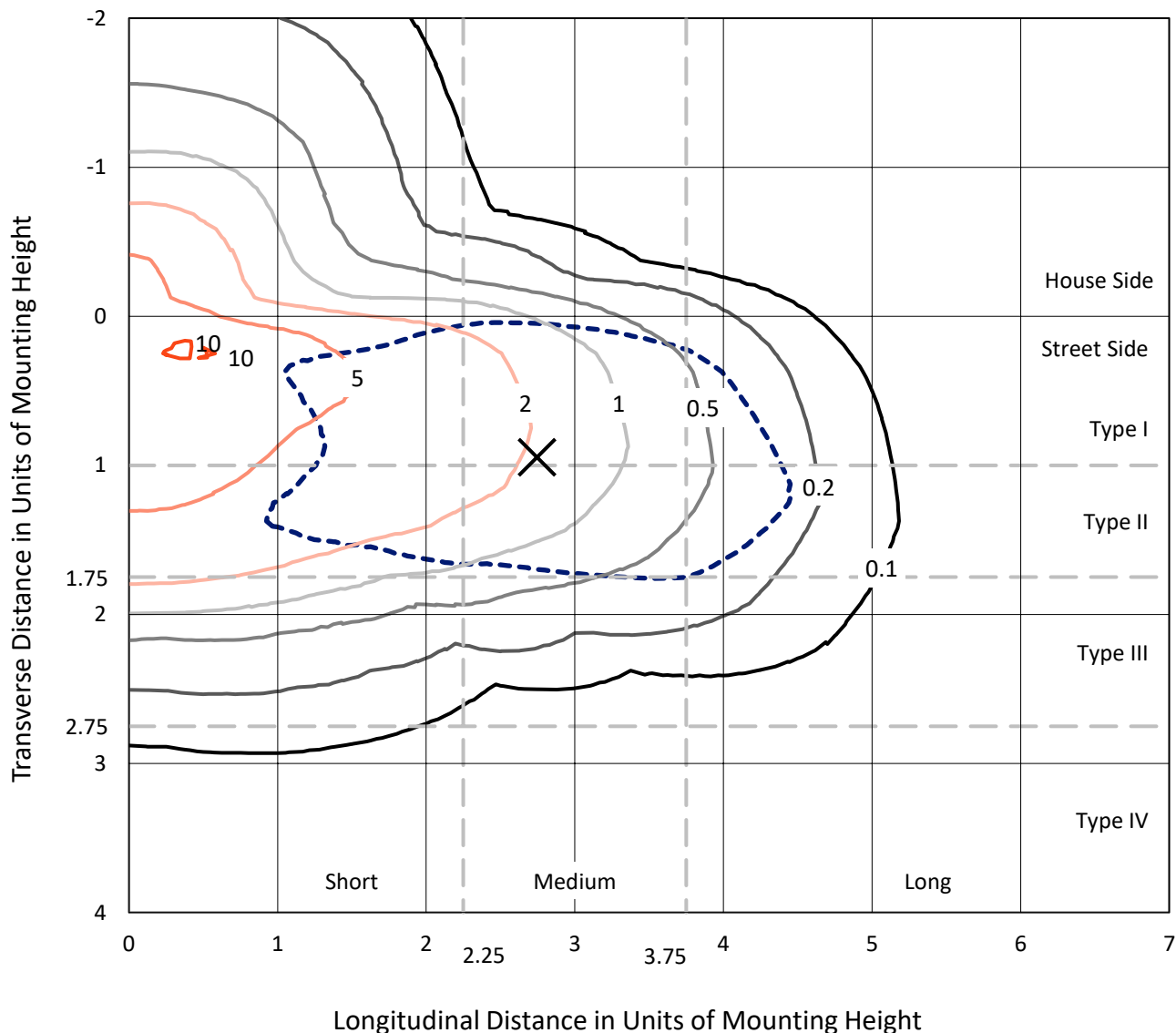
Input Watts (W): 244  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

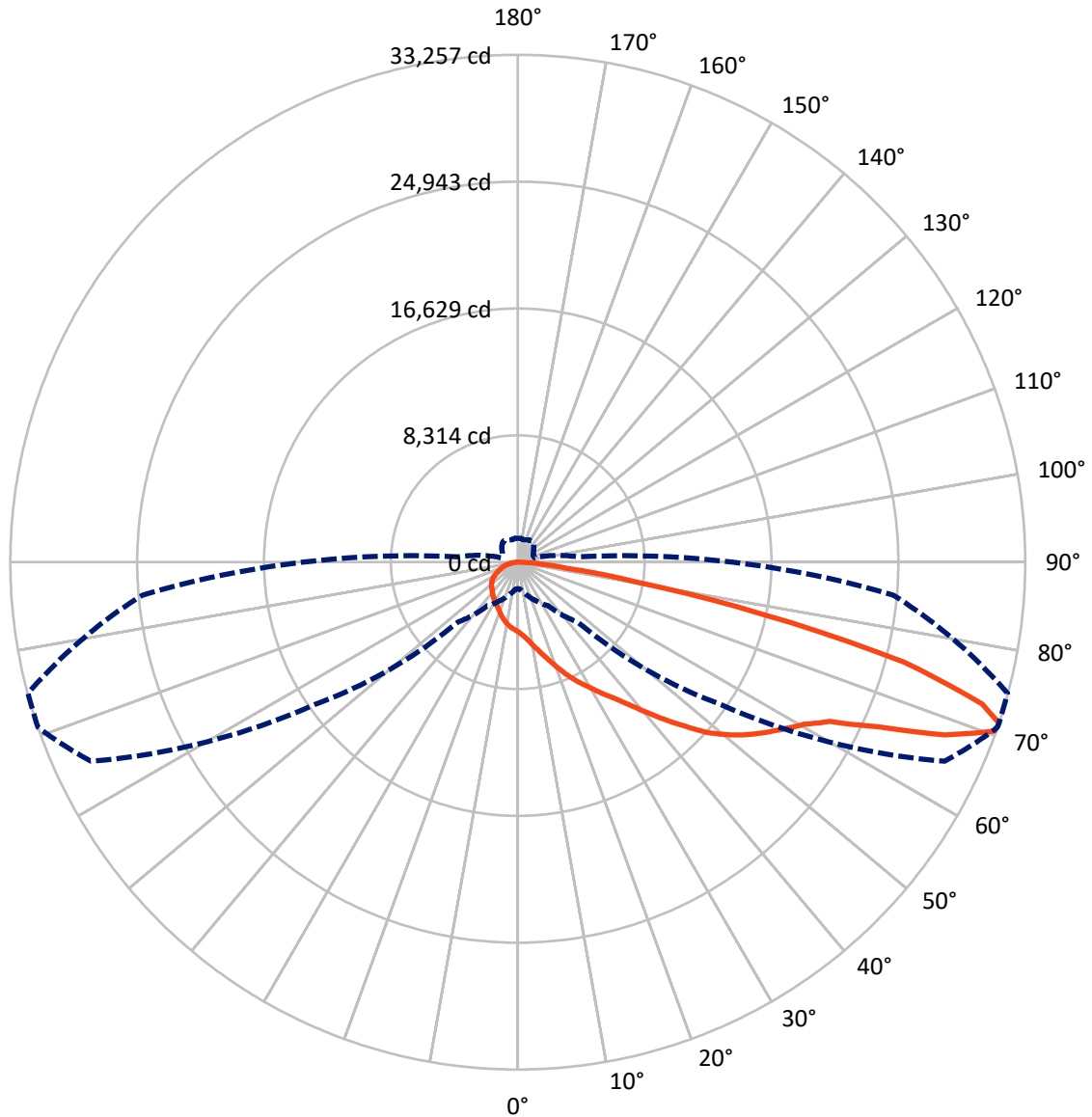
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.4 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



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

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6679.2	0.0	6679.2
	% Fixture	18.0	0.0	18.0
<b>Street Side</b>	Lumens	30458.8	0.0	30458.8
	% Fixture	82.0	0.0	82.0
<b>Total</b>	Lumens	37138.0	0.0	37138.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	457.7	1.2
10°-20°	1486.9	4.0
20°-30°	2598.4	7.0
30°-40°	3864.8	10.4
40°-50°	5694.3	15.3
50°-60°	7972.1	21.5
60°-70°	8916.6	24.0
70°-80°	5446.6	14.7
80°-90°	700.6	1.9
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°	37138.0	100.0
0°-180°	37138.0	100.0

**Coefficient of Utilization**



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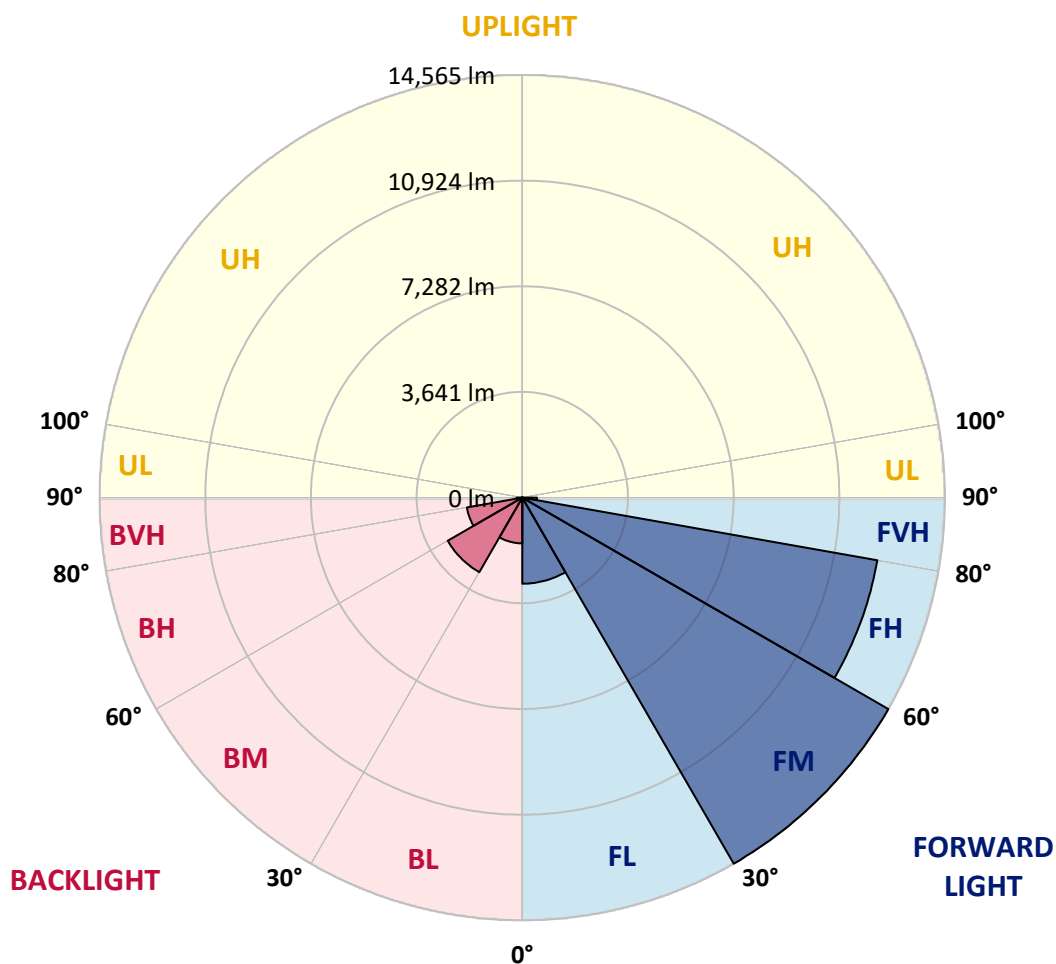
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2967.3	8.0			
FM	(30°-60°)	14564.8	39.2			
FH	(60°-80°)	12422.5	33.4			G5
FVH	(80°-90°)	504.1	1.4			G4/750
BL	(0°-30°)	1575.6	4.2	B3/2500		
BM	(30°-60°)	2966.5	8.0	B3/5000		
BH	(60°-80°)	1940.6	5.2	B3/2500		G3/2500
BVH	(80°-90°)	196.5	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 II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	71°	75°	85°
0°	4558.0	4558.0	4558.0	4558.0	4558.0	4558.0	4558.0	4558.0	4558.0	4558.0	4558.0
2.5°	5060.1	5035.6	5037.6	5002.9	4958.0	4909.0	4839.6	4778.4	4729.4	4700.8	4617.2
5°	5607.1	5582.6	5552.0	5476.5	5443.8	5323.4	5170.3	5031.5	4925.4	4866.2	4698.8
7.5°	6050.1	6043.9	6035.8	5992.9	5909.2	5741.8	5611.2	5370.3	5213.2	5100.9	4815.1
10°	6323.6	6333.8	6339.9	6348.1	6313.4	6225.6	6046.0	5741.8	5541.8	5398.9	4966.2
12.5°	6462.4	6472.6	6507.3	6582.8	6629.8	6619.5	6472.6	6174.6	5899.0	5711.2	5127.4
15°	6548.1	6564.4	6625.7	6725.7	6882.9	6982.9	6911.4	6635.9	6333.8	6111.3	5319.3
17.5°	6642.0	6660.4	6727.7	6870.6	7076.8	7293.1	7370.7	7133.9	6805.3	6539.9	5533.6
20°	6695.1	6719.6	6815.5	7003.3	7244.2	7558.5	7815.7	7691.2	7331.9	7038.0	5780.6
22.5°	6780.8	6801.2	6882.9	7082.9	7370.7	7764.7	8260.7	8234.1	7917.7	7538.1	6052.1
25°	7013.5	7046.2	7087.0	7207.4	7485.0	7974.9	8630.1	8813.8	8485.2	8060.6	6301.1
27.5°	7452.4	7478.9	7476.8	7493.2	7650.3	8156.6	8950.6	9387.4	9048.6	8589.3	6542.0
30°	7952.4	7962.6	7970.8	7934.1	7968.8	8342.3	9244.5	9954.8	9616.0	9132.2	6752.2
32.5°	8560.7	8581.1	8511.7	8417.8	8389.3	8617.9	9487.4	10522.3	10287.6	9683.4	6960.4
35°	9279.2	9332.3	9191.4	9026.1	8909.8	9013.9	9814.0	11102.0	10975.4	10387.6	7236.0
37.5°	10099.8	10165.1	10034.4	9709.9	9544.6	9573.1	10240.6	11818.4	11845.0	11189.8	7646.3
40°	10771.3	10857.0	10861.1	10401.9	10150.8	10183.5	10781.5	12590.0	12894.1	12181.8	8130.0
42.5°	11214.2	11297.9	11385.7	11116.3	10853.0	11038.7	11412.2	13426.9	14073.9	13386.1	8805.7
45°	11700.0	11775.6	11824.6	11702.1	11555.1	12036.8	12173.6	14316.8	15331.3	14731.2	9544.6
47.5°	12263.4	12347.1	12394.1	12277.7	12222.6	12912.5	12994.2	15147.6	16674.4	16037.6	10361.0
50°	13014.6	13077.8	13053.4	12979.9	12967.6	13584.1	13782.1	15925.3	17782.8	17443.9	11208.1
52.5°	13949.4	14025.0	14051.5	13947.4	13900.4	14063.7	14416.9	16633.6	18791.1	18652.3	12112.4
55°	14514.8	14635.3	15039.4	15202.7	15315.0	14684.3	15100.7	17415.4	19695.4	19926.0	13084.0
57.5°	13790.2	13945.3	14849.6	15666.1	16721.4	16235.6	16070.2	18231.8	20599.6	21160.9	14247.4
60°	12022.6	12057.3	13222.8	14727.1	16849.9	18229.8	18093.0	19530.0	21579.4	22406.0	15780.4
62.5°	8340.3	8413.7	9791.5	12192.0	15261.9	18948.3	21534.5	21771.2	22983.7	24269.6	18027.7
65°	4300.8	4204.8	5460.2	7662.6	11506.1	17241.9	24322.7	25892.4	26029.1	27184.4	21191.5
67.5°	2647.4	2690.3	3278.1	4474.3	6803.3	12530.8	24030.8	30928.0	30207.4	30762.6	24128.8
70°	1988.1	2041.2	2445.3	3061.8	4147.7	7164.5	19325.9	32148.6	33154.9	33012.0	25022.8
71°	1728.9	1784.0	2204.5	2786.2	3484.3	5529.6	16282.5	30870.8	33257.0	33232.5	24686.0
72.5°	1473.7	1508.4	1837.1	2359.6	2937.3	3876.2	12232.8	27686.6	31838.3	32652.8	23483.8
75°	1157.3	1183.9	1330.8	1800.3	2312.7	2380.0	6564.4	20756.8	26149.6	27700.9	19550.4
77.5°	943.0	961.4	1036.9	1337.0	1784.0	1686.0	3443.5	13510.6	16382.5	17944.0	11516.3
80°	749.1	769.5	814.4	906.3	1337.0	1202.3	1643.2	6846.1	7913.7	7897.3	4596.7
82.5°	581.7	587.9	640.9	665.4	914.4	853.2	890.0	2898.5	3210.8	3316.9	1659.5
85°	367.4	385.8	567.4	510.3	547.0	500.1	438.9	1151.2	1418.6	1398.2	663.4
87.5°	112.3	118.4	191.9	216.4	242.9	218.4	161.3	338.8	414.4	449.1	165.3
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°	4558.0	4558.0	4558.0	4558.0	4558.0	4558.0	4558.0	4558.0	4558.0	4558.0	4558.0
2.5°	4584.5	4562.0	4482.4	4417.1	4355.9	4288.5	4231.4	4215.0	4200.8	4194.6	4192.6
5°	4627.4	4560.0	4402.8	4274.2	4172.2	4078.3	4019.1	3992.5	3966.0	3966.0	3974.2
7.5°	4688.6	4566.1	4323.2	4131.4	4002.8	3915.0	3872.1	3868.0	3874.2	3880.3	3882.3
10°	4756.0	4562.0	4206.9	3968.1	3853.7	3812.9	3815.0	3849.7	3882.3	3906.8	3910.9
12.5°	4821.3	4537.5	4070.1	3815.0	3741.5	3749.6	3806.8	3884.4	3947.6	3982.3	3984.4
15°	4894.8	4498.8	3904.8	3670.0	3645.5	3708.8	3815.0	3933.4	4029.3	4086.4	4092.6
17.5°	4956.0	4433.4	3731.3	3529.2	3559.8	3676.2	3823.1	3976.2	4092.6	4164.0	4176.3
20°	5025.4	4349.8	3551.7	3394.5	3482.3	3639.4	3806.8	3972.1	4092.6	4162.0	4178.3
22.5°	5080.5	4231.4	3380.2	3284.3	3412.9	3594.5	3751.7	3884.4	3982.3	4019.1	4043.6
25°	5103.0	4082.4	3218.9	3194.4	3357.7	3521.0	3627.2	3702.7	3733.3	3729.2	3739.4
27.5°	5090.7	3910.9	3080.1	3123.0	3288.3	3406.7	3459.8	3453.7	3398.6	3347.5	3372.0
30°	5039.7	3706.8	2963.8	3049.5	3198.5	3263.8	3255.7	3176.1	3072.0	2976.0	2982.2
32.5°	4947.8	3486.3	2855.6	2965.8	3072.0	3100.6	3045.4	2941.3	2792.3	2667.8	2649.5
35°	4870.3	3276.1	2759.7	2869.9	2945.4	2931.1	2878.1	2743.3	2608.6	2498.4	2480.0
37.5°	4858.0	3096.5	2667.8	2761.7	2804.6	2784.2	2718.9	2604.5	2555.6	2471.9	2461.7
40°	4923.3	2969.9	2573.9	2647.4	2667.8	2651.5	2580.1	2514.7	2559.6	2539.2	2539.2
42.5°	5100.9	2902.6	2490.2	2533.1	2549.4	2561.7	2510.7	2455.5	2510.7	2416.8	2386.1
45°	5382.6	2904.6	2414.7	2420.8	2469.8	2512.7	2478.0	2396.3	2367.8	2180.0	2143.2
47.5°	5797.0	2974.0	2353.5	2314.7	2402.5	2473.9	2424.9	2306.5	2180.0	2055.5	2033.0
50°	6280.7	3098.5	2298.4	2204.5	2312.7	2424.9	2388.2	2249.4	2118.7	2043.2	2028.9
52.5°	6817.5	3255.7	2231.0	2082.0	2202.4	2402.5	2396.3	2241.2	2061.6	2010.6	1998.3
55°	7480.9	3410.8	2147.3	1939.1	2104.5	2384.1	2373.9	2173.9	2049.3	2012.6	2008.5
57.5°	8252.5	3635.3	2026.9	1794.2	1992.2	2308.6	2286.1	2133.0	2008.5	1982.0	1979.9
60°	9495.6	3984.4	1855.4	1661.5	1877.9	2175.9	2204.5	2063.6	1943.2	1937.1	1935.0
62.5°	11130.6	4474.3	1677.9	1524.8	1745.2	2004.4	2086.1	1969.7	1873.8	1904.4	1908.5
65°	13388.1	4886.6	1494.1	1408.4	1598.2	1839.1	1973.8	1882.0	1796.2	1855.4	1855.4
67.5°	14859.8	4894.8	1326.8	1288.0	1449.2	1700.3	1855.4	1777.9	1696.2	1796.2	1800.3
70°	14553.6	4288.5	1188.0	1161.4	1304.3	1551.3	1724.8	1663.6	1569.7	1659.5	1626.8
71°	14059.7	3951.7	1132.9	1112.4	1247.2	1479.9	1663.6	1612.5	1518.6	1577.8	1559.5
72.5°	13271.8	3431.2	1043.0	1047.1	1161.4	1390.0	1577.8	1524.8	1430.9	1463.5	1457.4
75°	11218.3	2996.5	892.0	910.4	998.1	1237.0	1406.4	1365.6	1269.6	1269.6	1263.5
77.5°	7013.5	2094.3	740.9	751.2	847.1	1059.4	1208.4	1173.7	1081.8	1051.2	1043.0
80°	2616.8	1081.8	579.7	591.9	651.1	834.8	1000.2	967.5	873.6	838.9	806.3
82.5°	990.0	543.0	426.6	416.4	479.7	636.8	783.8	745.0	671.5	587.9	563.4
85°	373.5	269.4	261.3	253.1	281.7	377.6	485.8	477.6	400.1	340.9	334.8
87.5°	98.0	87.8	102.1	75.5	79.6	71.4	73.5	30.6	14.3	6.1	4.1
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)