

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: P459256

Luminaire Tested: **GALN-SA7B-735-U-T2**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P459256  
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-SA7B-735-U-T2  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 37131 lumens  
Efficiency: N/A  
Efficacy: 129.8 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

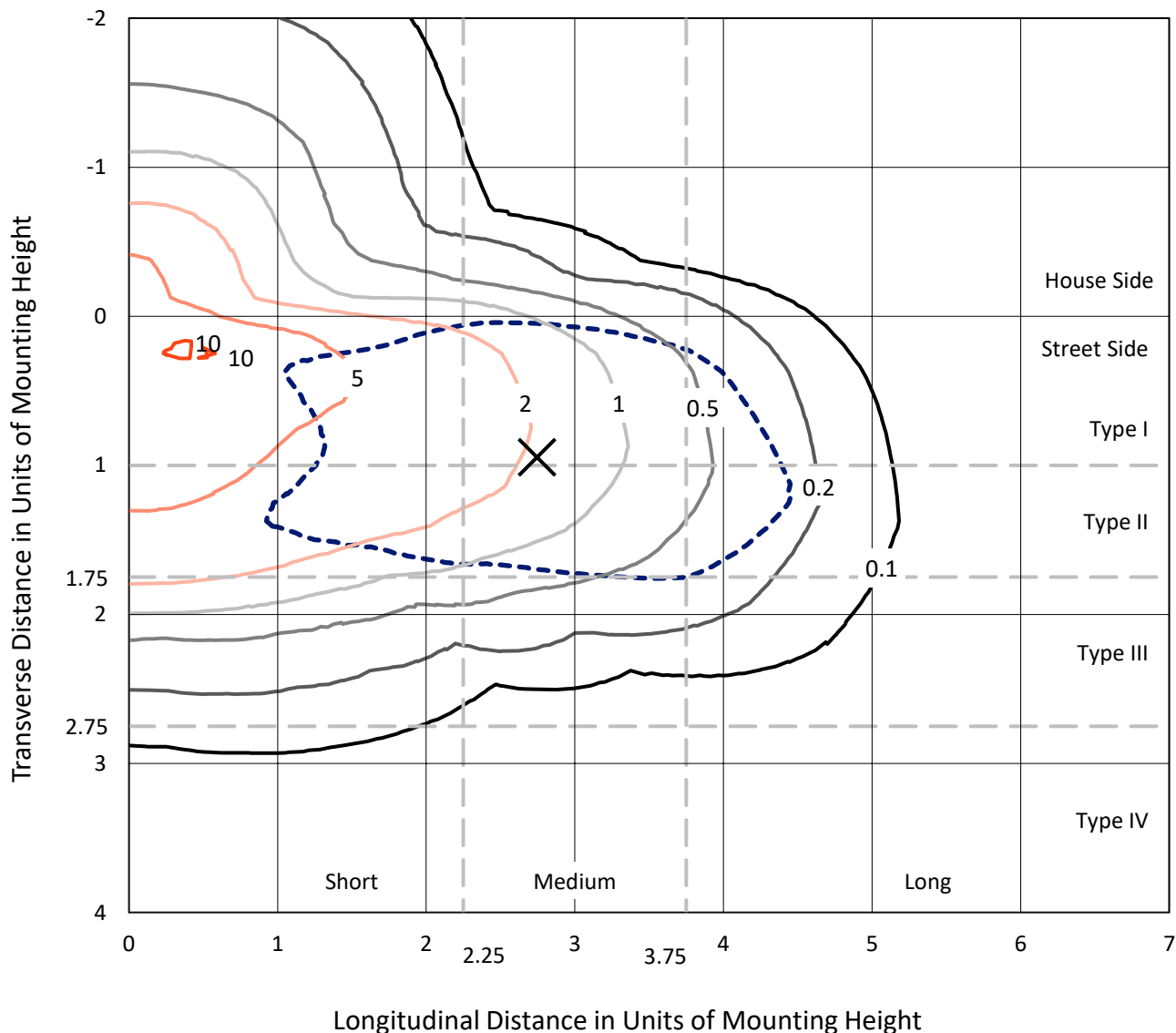
Input Watts (W): 286  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

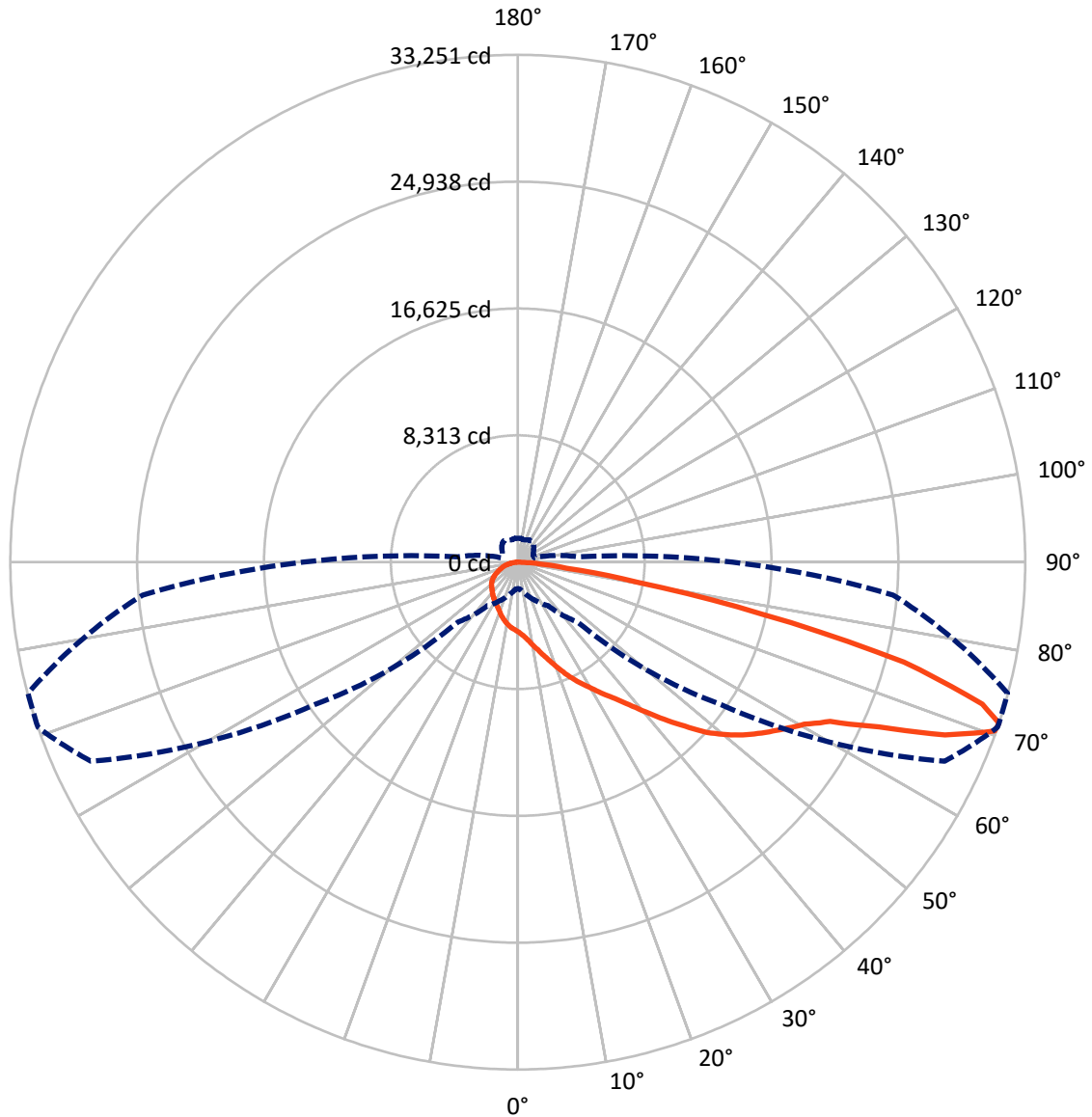
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.3 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	6677.9	0.0	6677.9
	% Fixture	18.0	0.0	18.0
<b>Street Side</b>	Lumens	30453.1	0.0	30453.1
	% Fixture	82.0	0.0	82.0
<b>Total</b>	Lumens	37131.0	0.0	37131.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	457.6	1.2
10°-20°	1486.6	4.0
20°-30°	2597.9	7.0
30°-40°	3864.1	10.4
40°-50°	5693.2	15.3
50°-60°	7970.6	21.5
60°-70°	8914.9	24.0
70°-80°	5445.6	14.7
80°-90°	700.5	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°	37131.0	100.0
0°-180°	37131.0	100.0

**Coefficient of Utilization**



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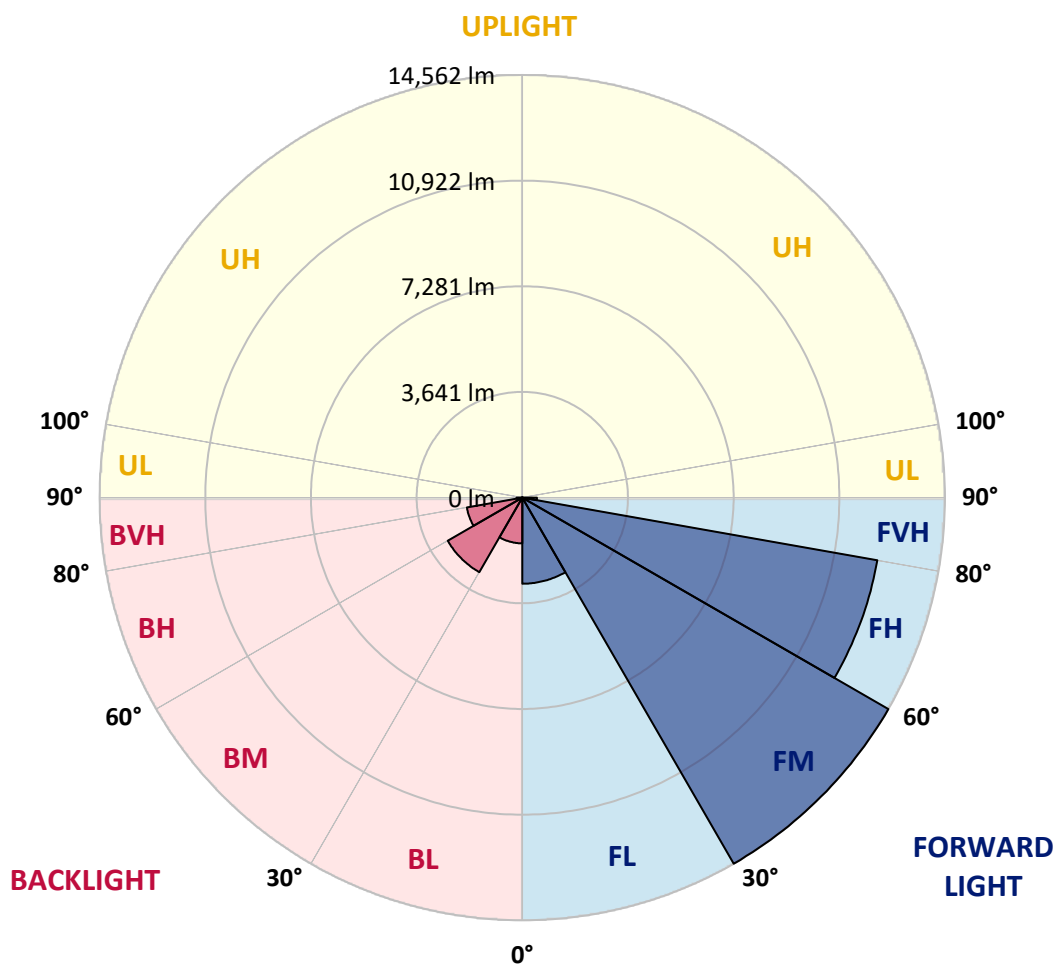
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2966.8	8.0			
FM	(30°-60°)	14562.0	39.2			
FH	(60°-80°)	12420.2	33.4			G5
FVH	(80°-90°)	504.0	1.4			G4/750
BL	(0°-30°)	1575.3	4.2	B3/2500		
BM	(30°-60°)	2965.9	8.0	B3/5000		
BH	(60°-80°)	1940.2	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°	4557.1	4557.1	4557.1	4557.1	4557.1	4557.1	4557.1	4557.1	4557.1	4557.1	4557.1
2.5°	5059.1	5034.6	5036.7	5002.0	4957.1	4908.1	4838.7	4777.5	4728.5	4700.0	4616.3
5°	5606.1	5581.6	5551.0	5475.5	5442.8	5322.4	5169.3	5030.6	4924.4	4865.3	4697.9
7.5°	6048.9	6042.8	6034.6	5991.8	5908.1	5740.8	5610.1	5369.3	5212.2	5099.9	4814.2
10°	6322.4	6332.6	6338.7	6346.9	6312.2	6224.4	6044.8	5740.8	5540.8	5397.9	4965.3
12.5°	6461.2	6471.4	6506.1	6581.6	6628.5	6618.3	6471.4	6173.4	5897.9	5710.1	5126.5
15°	6546.9	6563.2	6624.4	6724.4	6881.6	6981.6	6910.1	6634.6	6332.6	6110.1	5318.3
17.5°	6640.8	6659.1	6726.5	6869.3	7075.4	7291.8	7369.3	7132.6	6804.0	6538.7	5532.6
20°	6693.8	6718.3	6814.2	7002.0	7242.8	7557.1	7814.2	7689.7	7330.5	7036.7	5779.5
22.5°	6779.5	6799.9	6881.6	7081.6	7369.3	7763.2	8259.1	8232.6	7916.2	7536.7	6051.0
25°	7012.2	7044.8	7085.6	7206.1	7483.6	7973.4	8628.5	8812.2	8483.6	8059.1	6299.9
27.5°	7450.9	7477.5	7475.4	7491.8	7648.9	8155.0	8948.9	9385.6	9046.8	8587.7	6540.8
30°	7950.9	7961.1	7969.3	7932.6	7967.3	8340.7	9242.8	9953.0	9614.2	9130.5	6751.0
32.5°	8559.1	8579.5	8510.1	8416.2	8387.7	8616.2	9485.6	10520.3	10285.6	9681.5	6959.1
35°	9277.5	9330.5	9189.7	9024.4	8908.1	9012.2	9812.1	11099.9	10973.4	10385.6	7234.6
37.5°	10097.9	10163.2	10032.6	9708.1	9542.8	9571.3	10238.7	11816.2	11842.7	11187.6	7644.8
40°	10769.3	10855.0	10859.1	10399.9	10148.9	10181.5	10779.5	12587.6	12891.7	12179.5	8128.5
42.5°	11212.1	11295.8	11383.6	11114.2	10850.9	11036.6	11410.1	13424.4	14071.3	13383.5	8804.0
45°	11697.8	11773.4	11822.3	11699.9	11552.9	12034.6	12171.3	14314.1	15328.4	14728.4	9542.8
47.5°	12261.1	12344.8	12391.7	12275.4	12220.3	12910.1	12991.7	15144.7	16671.3	16034.5	10359.1
50°	13012.1	13075.4	13050.9	12977.4	12965.2	13581.5	13779.5	15922.3	17779.4	17440.6	11206.0
52.5°	13946.8	14022.3	14048.8	13944.8	13897.8	14061.1	14414.1	16630.4	18787.6	18648.8	12110.1
55°	14512.1	14632.5	15036.6	15199.8	15312.1	14681.5	15097.8	17412.1	19691.6	19922.3	13081.5
57.5°	13787.6	13942.7	14846.8	15663.1	16718.2	16232.5	16067.2	18228.4	20595.7	21156.9	14244.8
60°	12020.3	12055.0	13220.3	14724.3	16846.8	18226.4	18089.6	19526.3	21575.3	22401.8	15777.4
62.5°	8338.7	8412.2	9789.7	12189.7	15259.0	18944.7	21530.4	21767.1	22979.4	24265.1	18024.3
65°	4300.0	4204.0	5459.1	7661.1	11504.0	17238.6	24318.1	25887.5	26024.2	27179.3	21187.5
67.5°	2646.9	2689.8	3277.5	4473.4	6802.0	12528.4	24026.3	30922.1	30201.7	30756.8	24124.3
70°	1987.7	2040.8	2444.9	3061.2	4146.9	7163.2	19322.3	32142.5	33148.7	33005.8	25018.1
71°	1728.6	1783.7	2204.1	2785.7	3483.6	5528.5	16279.4	30865.0	33250.7	33226.2	24681.4
72.5°	1473.5	1508.1	1836.7	2359.2	2936.7	3875.5	12230.5	27681.4	31832.3	32646.6	23479.4
75°	1157.1	1183.7	1330.6	1800.0	2312.2	2379.6	6563.2	20752.9	26144.6	27695.6	19546.7
77.5°	942.8	961.2	1036.7	1336.7	1783.7	1685.7	3442.8	13508.0	16379.4	17940.6	11514.2
80°	749.0	769.4	814.3	906.1	1336.7	1202.0	1642.8	6844.8	7912.2	7895.8	4595.9
82.5°	581.6	587.7	640.8	665.3	914.3	853.1	889.8	2897.9	3210.2	3316.3	1659.2
85°	367.3	385.7	567.3	510.2	546.9	500.0	438.8	1151.0	1418.4	1397.9	663.3
87.5°	112.2	118.4	191.8	216.3	242.9	218.4	161.2	338.8	414.3	449.0	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°	4557.1	4557.1	4557.1	4557.1	4557.1	4557.1	4557.1	4557.1	4557.1	4557.1	4557.1
2.5°	4583.6	4561.2	4481.6	4416.3	4355.1	4287.7	4230.6	4214.2	4200.0	4193.8	4191.8
5°	4626.5	4559.1	4402.0	4273.4	4171.4	4077.5	4018.3	3991.8	3965.3	3965.3	3973.4
7.5°	4687.7	4565.3	4322.4	4130.6	4002.0	3914.2	3871.4	3867.3	3873.4	3879.6	3881.6
10°	4755.1	4561.2	4206.1	3967.3	3853.0	3812.2	3814.2	3848.9	3881.6	3906.1	3910.2
12.5°	4820.4	4536.7	4069.3	3814.2	3740.8	3748.9	3806.1	3883.6	3946.9	3981.6	3983.6
15°	4893.8	4497.9	3904.0	3669.4	3644.9	3708.1	3814.2	3932.6	4028.5	4085.7	4091.8
17.5°	4955.1	4432.6	3730.6	3528.5	3559.1	3675.5	3822.4	3975.5	4091.8	4163.2	4175.5
20°	5024.4	4348.9	3551.0	3393.8	3481.6	3638.7	3806.1	3971.4	4091.8	4161.2	4177.5
22.5°	5079.5	4230.6	3379.6	3283.6	3412.2	3593.8	3751.0	3883.6	3981.6	4018.3	4042.8
25°	5102.0	4081.6	3218.3	3193.8	3357.1	3520.4	3626.5	3702.0	3732.6	3728.5	3738.7
27.5°	5089.7	3910.2	3079.6	3122.4	3287.7	3406.1	3459.1	3453.0	3397.9	3346.9	3371.4
30°	5038.7	3706.1	2963.2	3048.9	3197.9	3263.2	3255.1	3175.5	3071.4	2975.5	2981.6
32.5°	4946.9	3485.7	2855.1	2965.3	3071.4	3100.0	3044.9	2940.8	2791.8	2667.3	2649.0
35°	4869.3	3275.5	2759.2	2869.4	2944.9	2930.6	2877.5	2742.8	2608.1	2497.9	2479.6
37.5°	4857.1	3095.9	2667.3	2761.2	2804.1	2783.6	2718.3	2604.1	2555.1	2471.4	2461.2
40°	4922.4	2969.4	2573.4	2646.9	2667.3	2651.0	2579.6	2514.3	2559.2	2538.8	2538.8
42.5°	5099.9	2902.0	2489.8	2532.6	2549.0	2561.2	2510.2	2455.1	2510.2	2416.3	2385.7
45°	5381.6	2904.1	2414.3	2420.4	2469.4	2512.2	2477.5	2395.9	2367.3	2179.6	2142.8
47.5°	5795.9	2973.4	2353.0	2314.3	2402.0	2473.4	2424.5	2306.1	2179.6	2055.1	2032.6
50°	6279.5	3097.9	2297.9	2204.1	2312.2	2424.5	2387.7	2249.0	2118.3	2042.8	2028.6
52.5°	6816.3	3255.1	2230.6	2081.6	2202.0	2402.0	2395.9	2240.8	2061.2	2010.2	1997.9
55°	7479.5	3410.2	2146.9	1938.8	2104.1	2383.6	2373.4	2173.4	2049.0	2012.2	2008.1
57.5°	8250.9	3634.7	2026.5	1793.9	1991.8	2308.1	2285.7	2132.6	2008.1	1981.6	1979.6
60°	9493.8	3983.6	1855.1	1661.2	1877.5	2175.5	2204.1	2063.2	1942.8	1936.7	1934.7
62.5°	11128.5	4473.4	1677.5	1524.5	1744.9	2004.1	2085.7	1969.4	1873.5	1904.1	1908.1
65°	13385.6	4885.7	1493.9	1408.1	1597.9	1838.8	1973.4	1881.6	1795.9	1855.1	1855.1
67.5°	14857.0	4893.8	1326.5	1287.7	1449.0	1700.0	1855.1	1777.5	1695.9	1795.9	1800.0
70°	14550.9	4287.7	1187.7	1161.2	1304.1	1551.0	1724.5	1663.2	1569.4	1659.2	1626.5
71°	14057.0	3951.0	1132.6	1112.2	1246.9	1479.6	1663.2	1612.2	1518.4	1577.5	1559.2
72.5°	13269.3	3430.6	1042.8	1046.9	1161.2	1389.8	1577.5	1524.5	1430.6	1463.3	1457.1
75°	11216.2	2995.9	891.8	910.2	997.9	1236.7	1406.1	1365.3	1269.4	1269.4	1263.3
77.5°	7012.2	2093.9	740.8	751.0	846.9	1059.2	1208.2	1173.5	1081.6	1051.0	1042.8
80°	2616.3	1081.6	579.6	591.8	651.0	834.7	1000.0	967.3	873.5	838.8	806.1
82.5°	989.8	542.9	426.5	416.3	479.6	636.7	783.7	744.9	671.4	587.7	563.3
85°	373.5	269.4	261.2	253.1	281.6	377.5	485.7	477.5	400.0	340.8	334.7
87.5°	98.0	87.8	102.0	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)