

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: P456298

Luminaire Tested: **GALN-SA7C-740-U-T2**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P456298  
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-SA7C-740-U-T2  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 49247 lumens  
Efficiency: N/A  
Efficacy: 130.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B4 - U0 - G5

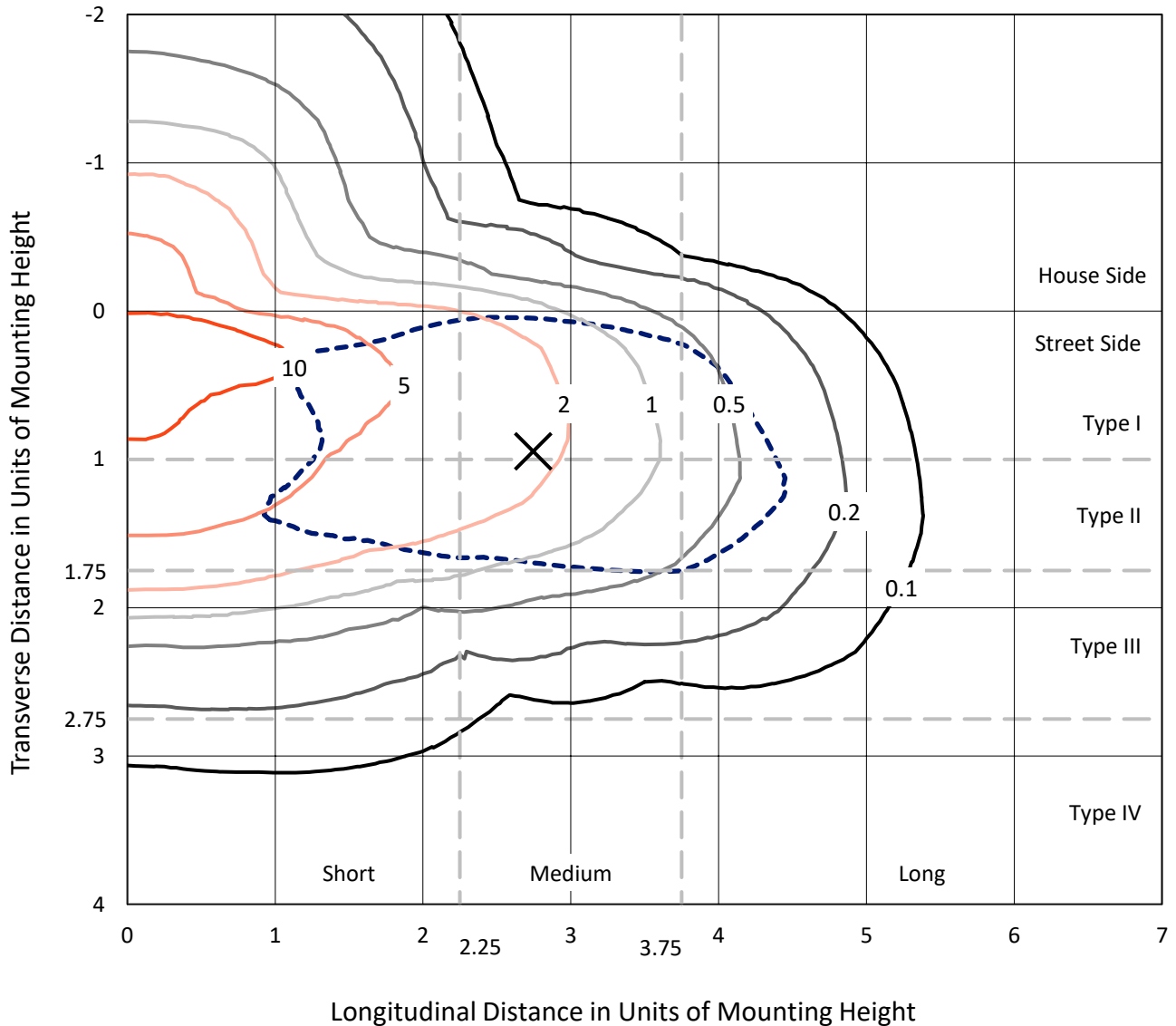
Input Watts (W): 377  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

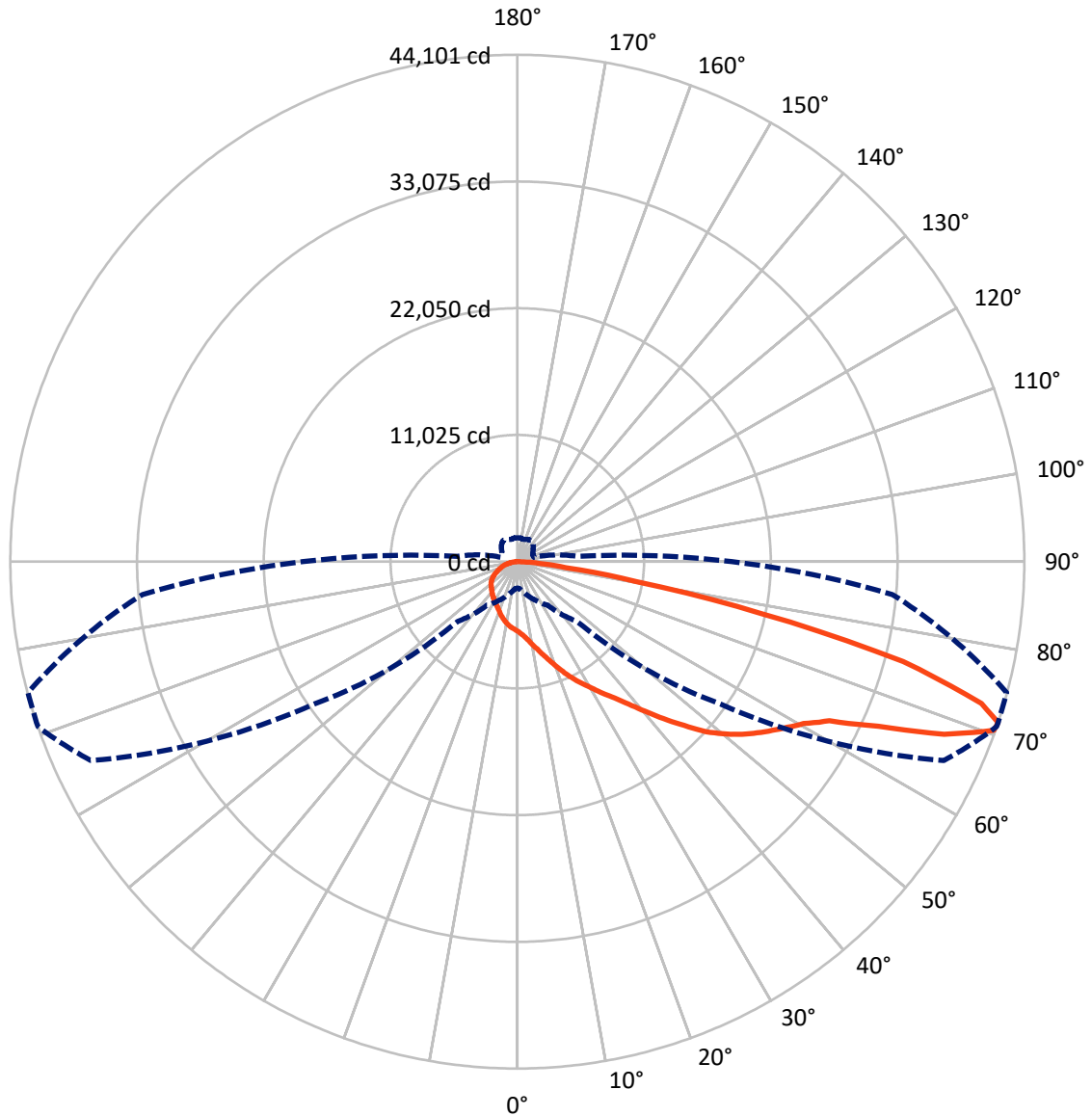
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.7 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	8857.0	0.0	8857.0
	% Fixture	18.0	0.0	18.0
<b>Street Side</b>	Lumens	40390.0	0.0	40390.0
	% Fixture	82.0	0.0	82.0
<b>Total</b>	Lumens	49247.0	0.0	49247.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	606.9	1.2
10°-20°	1971.7	4.0
20°-30°	3445.6	7.0
30°-40°	5125.0	10.4
40°-50°	7551.0	15.3
50°-60°	10571.5	21.5
60°-70°	11823.8	24.0
70°-80°	7222.5	14.7
80°-90°	929.1	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°	49247.0	100.0
0°-180°	49247.0	100.0



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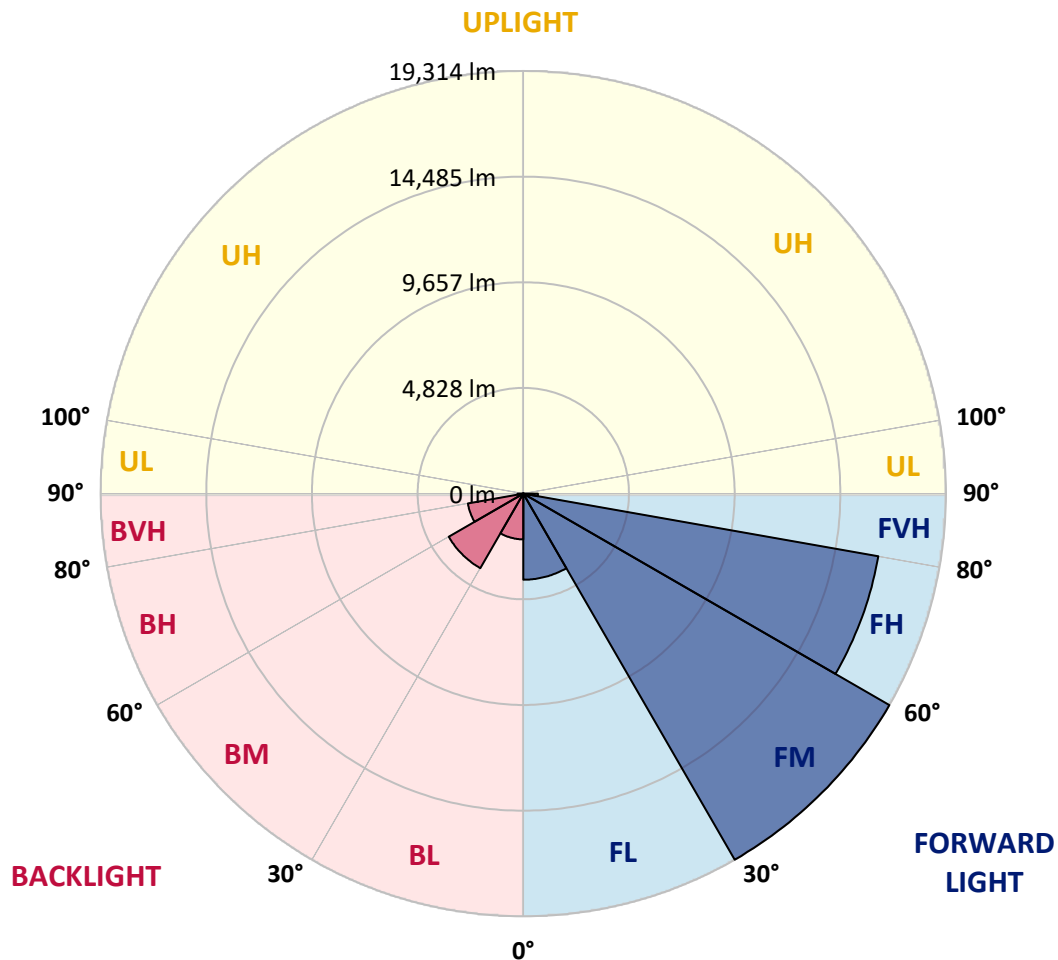
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3934.9	8.0			
FM	(30°-60°)	19313.7	39.2			
FH	(60°-80°)	16473.0	33.4			G5
FVH	(80°-90°)	668.5	1.4			G4/750
BL	(0°-30°)	2089.3	4.2	B3/2500		
BM	(30°-60°)	3933.7	8.0	B3/5000		
BH	(60°-80°)	2573.3	5.2	B4/5000		G4/5000
BVH	(80°-90°)	260.6	0.5			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G5**

Type II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	71°	75°	85°
0°	6044.1	6044.1	6044.1	6044.1	6044.1	6044.1	6044.1	6044.1	6044.1	6044.1	6044.1
2.5°	6710.0	6677.5	6680.2	6634.2	6574.6	6509.7	6417.6	6336.4	6271.5	6233.6	6122.6
5°	7435.4	7402.9	7362.3	7262.1	7218.8	7059.1	6856.1	6672.1	6531.3	6452.8	6230.9
7.5°	8022.7	8014.6	8003.8	7946.9	7835.9	7614.0	7440.8	7121.4	6913.0	6764.1	6385.1
10°	8385.4	8398.9	8407.1	8417.9	8371.9	8255.5	8017.3	7614.0	7348.7	7159.3	6585.4
12.5°	8569.5	8583.0	8629.0	8729.2	8791.4	8777.9	8583.0	8187.8	7822.4	7573.4	6799.3
15°	8683.1	8704.8	8786.0	8918.6	9127.0	9259.7	9164.9	8799.5	8398.9	8103.9	7053.7
17.5°	8807.7	8832.0	8921.3	9110.8	9384.2	9671.1	9774.0	9460.0	9024.2	8672.3	7337.9
20°	8878.0	8910.5	9037.7	9286.7	9606.1	10023.0	10364.0	10198.9	9722.5	9332.8	7665.4
22.5°	8991.7	9018.8	9127.0	9392.3	9774.0	10296.3	10954.1	10918.9	10499.4	9995.9	8025.4
25°	9300.3	9343.6	9397.7	9557.4	9925.5	10575.1	11444.0	11687.6	11251.8	10688.8	8355.6
27.5°	9882.2	9917.4	9914.7	9936.4	10144.8	10816.0	11869.0	12448.2	11998.9	11389.9	8675.0
30°	10545.4	10558.9	10569.7	10521.0	10567.0	11062.4	12258.7	13200.7	12751.3	12109.8	8953.8
32.5°	11352.0	11379.0	11287.0	11162.5	11124.6	11427.8	12580.8	13953.1	13641.9	12840.7	9229.9
35°	12304.7	12375.1	12188.3	11969.1	11814.8	11952.9	13013.9	14721.8	14554.0	13774.5	9595.3
37.5°	13392.8	13479.4	13306.2	12875.9	12656.6	12694.5	13579.6	15671.9	15707.1	14838.2	10139.4
40°	14283.3	14397.0	14402.4	13793.4	13460.5	13503.8	14296.9	16695.0	17098.3	16153.7	10780.9
42.5°	14870.7	14981.7	15098.1	14740.8	14391.6	14637.9	15133.3	17804.8	18662.8	17750.6	11676.8
45°	15514.9	15615.0	15680.0	15517.6	15322.7	15961.5	16142.9	18984.9	20330.1	19534.4	12656.6
47.5°	16262.0	16372.9	16435.2	16280.9	16207.8	17122.7	17231.0	20086.5	22111.2	21266.7	13739.3
50°	17258.0	17341.9	17309.5	17212.0	17195.8	18013.2	18275.7	21117.8	23580.9	23131.6	14862.6
52.5°	18497.7	18597.8	18633.0	18495.0	18432.7	18649.3	19117.5	22057.0	24918.0	24734.0	16061.7
55°	19247.5	19407.2	19943.1	20159.6	20308.5	19472.1	20024.3	23093.7	26117.1	26423.0	17350.1
57.5°	18286.6	18492.3	19691.4	20774.0	22173.4	21529.2	21310.0	24176.4	27316.2	28060.5	18892.9
60°	15942.6	15988.6	17534.1	19529.0	22343.9	24173.7	23992.3	25897.9	28615.4	29711.6	20925.6
62.5°	11059.6	11157.1	12984.1	16167.2	20238.1	25126.4	28555.9	28869.8	30477.6	32182.9	23905.7
65°	5703.1	5575.8	7240.5	10161.0	15257.8	22863.6	32253.2	34334.7	34516.0	36048.0	28101.1
67.5°	3510.6	3567.5	4347.0	5933.1	9021.5	16616.5	31866.2	41012.2	40056.7	40792.9	31996.1
70°	2636.3	2706.7	3242.6	4060.1	5500.0	9500.6	25627.2	42630.8	43965.2	43775.7	33181.6
71°	2292.6	2365.7	2923.3	3694.7	4620.4	7332.5	21591.5	40936.4	44100.5	44068.1	32735.0
72.5°	1954.2	2000.3	2436.0	3129.0	3895.0	5140.1	16221.4	36713.9	42219.4	43299.3	31140.8
75°	1534.7	1569.9	1764.8	2387.3	3066.7	3156.0	8704.8	27524.6	34675.7	36732.8	25924.9
77.5°	1250.5	1274.9	1375.0	1772.9	2365.7	2235.7	4566.2	17915.8	21724.1	23794.7	15271.3
80°	993.4	1020.4	1080.0	1201.8	1772.9	1594.3	2178.9	9078.3	10493.9	10472.3	6095.5
82.5°	771.4	779.5	849.9	882.4	1212.6	1131.4	1180.1	3843.5	4257.7	4398.4	2200.6
85°	487.2	511.6	752.5	676.7	725.4	663.1	581.9	1526.6	1881.2	1854.1	879.7
87.5°	148.9	157.0	254.4	286.9	322.1	289.6	213.8	449.3	549.5	595.5	219.2
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°	6044.1	6044.1	6044.1	6044.1	6044.1	6044.1	6044.1	6044.1	6044.1	6044.1	6044.1
2.5°	6079.3	6049.5	5943.9	5857.3	5776.1	5686.8	5611.0	5589.4	5570.4	5562.3	5559.6
5°	6136.1	6046.8	5838.4	5667.9	5532.5	5408.0	5329.5	5294.3	5259.2	5259.2	5270.0
7.5°	6217.3	6054.9	5732.8	5478.4	5307.9	5191.5	5134.6	5129.2	5137.3	5145.5	5148.2
10°	6306.6	6049.5	5578.5	5261.9	5110.3	5056.1	5058.9	5104.9	5148.2	5180.7	5186.1
12.5°	6393.3	6017.0	5397.2	5058.9	4961.4	4972.2	5048.0	5150.9	5234.8	5280.8	5283.5
15°	6490.7	5965.6	5177.9	4866.7	4834.2	4918.1	5058.9	5215.8	5343.1	5418.8	5427.0
17.5°	6571.9	5879.0	4947.9	4679.9	4720.5	4874.8	5069.7	5272.7	5427.0	5521.7	5537.9
20°	6663.9	5768.0	4709.7	4501.3	4617.7	4826.1	5048.0	5267.3	5427.0	5519.0	5540.6
22.5°	6737.0	5611.0	4482.3	4355.1	4525.6	4766.5	4974.9	5150.9	5280.8	5329.5	5362.0
25°	6766.8	5413.4	4268.5	4236.0	4452.5	4669.1	4809.8	4910.0	4950.6	4945.2	4958.7
27.5°	6750.6	5186.1	4084.4	4141.3	4360.5	4517.5	4587.9	4579.8	4506.7	4439.0	4471.5
30°	6682.9	4915.4	3930.2	4043.8	4241.4	4328.0	4317.2	4211.7	4073.6	3946.4	3954.5
32.5°	6561.1	4623.1	3786.7	3932.9	4073.6	4111.5	4038.4	3900.4	3702.8	3537.7	3513.3
35°	6458.2	4344.3	3659.5	3805.6	3905.8	3886.8	3816.5	3637.8	3459.2	3313.0	3288.7
37.5°	6442.0	4106.1	3537.7	3662.2	3719.0	3692.0	3605.3	3453.8	3388.8	3277.8	3264.3
40°	6528.6	3938.3	3413.2	3510.6	3537.7	3516.0	3421.3	3334.7	3394.2	3367.2	3367.2
42.5°	6764.1	3849.0	3302.2	3359.0	3380.7	3396.9	3329.3	3256.2	3329.3	3204.8	3164.2
45°	7137.6	3851.7	3202.0	3210.2	3275.1	3332.0	3286.0	3177.7	3139.8	2890.8	2842.1
47.5°	7687.1	3943.7	3120.8	3069.4	3185.8	3280.5	3215.6	3058.6	2890.8	2725.7	2695.9
50°	8328.6	4108.8	3047.8	2923.3	3066.7	3215.6	3166.9	2982.8	2809.6	2709.4	2690.5
52.5°	9040.4	4317.2	2958.4	2760.9	2920.5	3185.8	3177.7	2972.0	2733.8	2666.1	2649.9
55°	9920.1	4522.9	2847.5	2571.4	2790.6	3161.4	3147.9	2882.7	2717.5	2668.8	2663.4
57.5°	10943.3	4820.7	2687.8	2379.2	2641.8	3061.3	3031.5	2828.5	2663.4	2628.2	2625.5
60°	12591.6	5283.5	2460.4	2203.3	2490.2	2885.4	2923.3	2736.5	2576.8	2568.7	2566.0
62.5°	14759.7	5933.1	2224.9	2021.9	2314.2	2658.0	2766.3	2612.0	2484.8	2525.4	2530.8
65°	17753.4	6479.9	1981.3	1867.6	2119.4	2438.8	2617.4	2495.6	2381.9	2460.4	2460.4
67.5°	19704.9	6490.7	1759.4	1707.9	1921.8	2254.7	2460.4	2357.6	2249.3	2381.9	2387.3
70°	19298.9	5686.8	1575.3	1540.1	1729.6	2057.1	2287.2	2206.0	2081.5	2200.6	2157.3
71°	18643.9	5240.2	1502.2	1475.2	1653.8	1962.4	2206.0	2138.3	2013.8	2092.3	2067.9
72.5°	17599.1	4550.0	1383.1	1388.5	1540.1	1843.3	2092.3	2021.9	1897.4	1940.7	1932.6
75°	14876.1	3973.5	1182.8	1207.2	1323.6	1640.3	1864.9	1810.8	1683.6	1683.6	1675.5
77.5°	9300.3	2777.1	982.5	996.1	1123.3	1404.8	1602.4	1556.4	1434.6	1394.0	1383.1
80°	3470.0	1434.6	768.7	784.9	863.4	1107.0	1326.3	1283.0	1158.5	1112.5	1069.2
82.5°	1312.8	720.0	565.7	552.2	636.1	844.5	1039.4	988.0	890.5	779.5	747.1
85°	495.3	357.3	346.5	335.6	373.5	500.7	644.2	633.4	530.5	452.0	443.9
87.5°	129.9	116.4	135.3	100.1	105.6	94.7	97.4	40.6	18.9	8.1	5.4
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)