

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: P456505

Luminaire Tested: **GALN-SA7D-730-U-T3**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P456505  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-12)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA7D-730-U-T3  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 48662 lumens  
Efficiency: N/A  
Efficacy: 112.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B4 - U0 - G5

Input Watts (W): 433  
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

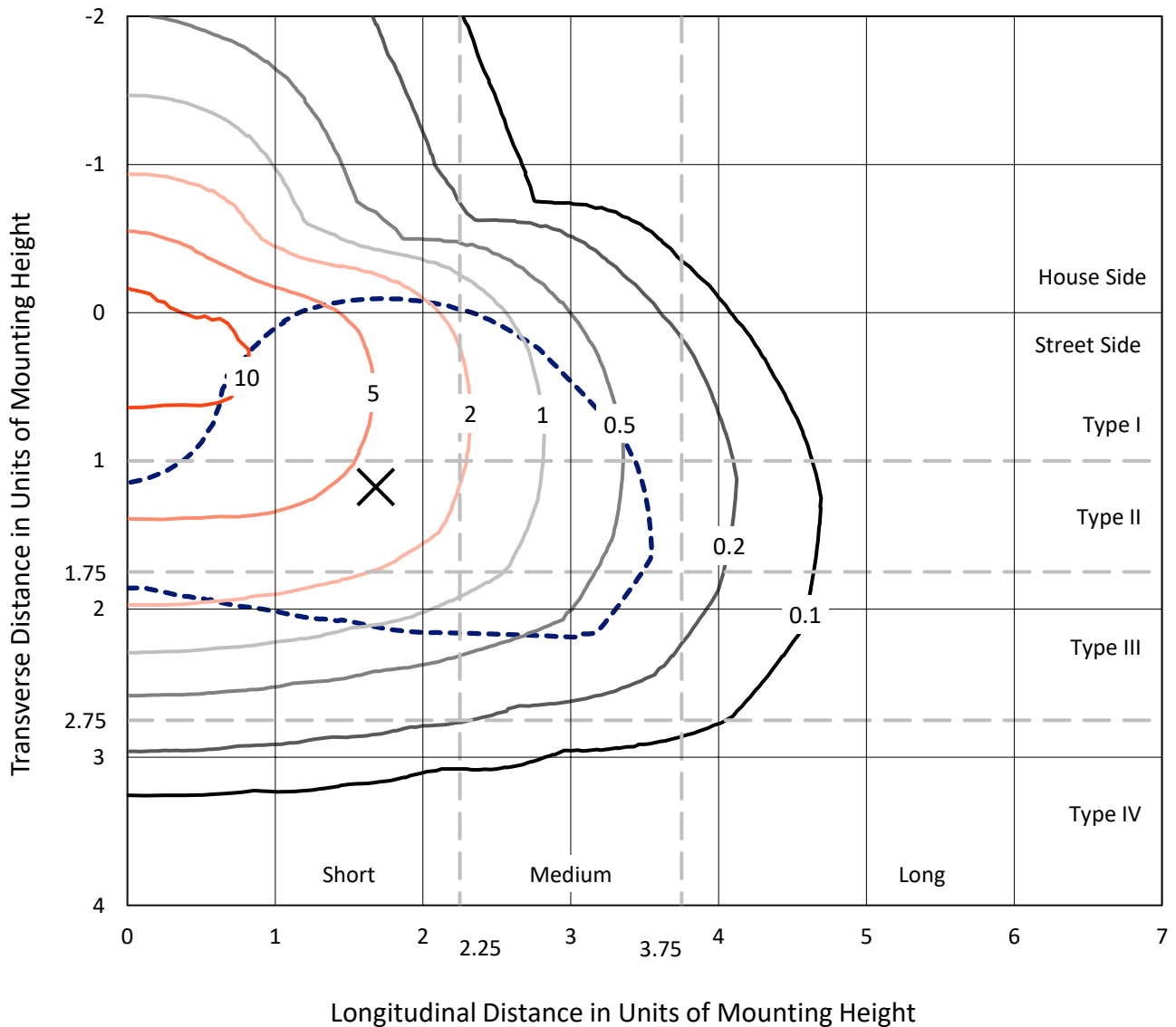




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### Iso-Footcandle Lines of Horizontal Illumination

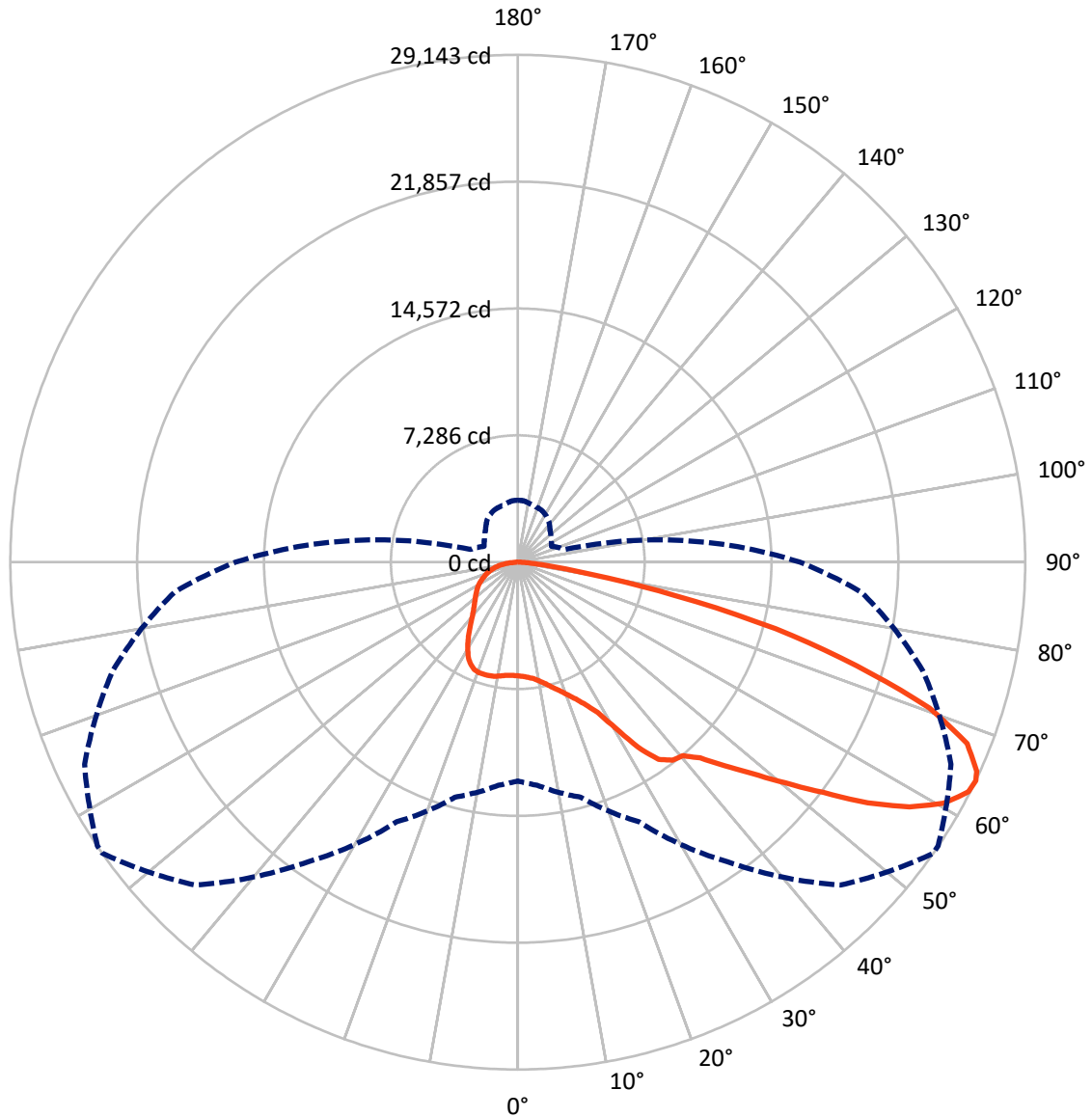
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.9 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral    - - - Horizontal Cone Through 64-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	11821.0	0.0	11821.0
	% Fixture	24.3	0.0	24.3
<b>Street Side</b>	Lumens	36841.0	0.0	36841.0
	% Fixture	75.7	0.0	75.7
<b>Total</b>	Lumens	48662.0	0.0	48662.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	635.1	1.3
10°-20°	2003.9	4.1
20°-30°	3567.5	7.3
30°-40°	5489.0	11.3
40°-50°	7781.1	16.0
50°-60°	11262.9	23.1
60°-70°	11655.9	24.0
70°-80°	5458.5	11.2
80°-90°	808.1	1.7
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°	48662.0	100.0
0°-180°	48662.0	100.0

**Coefficient of Utilization**



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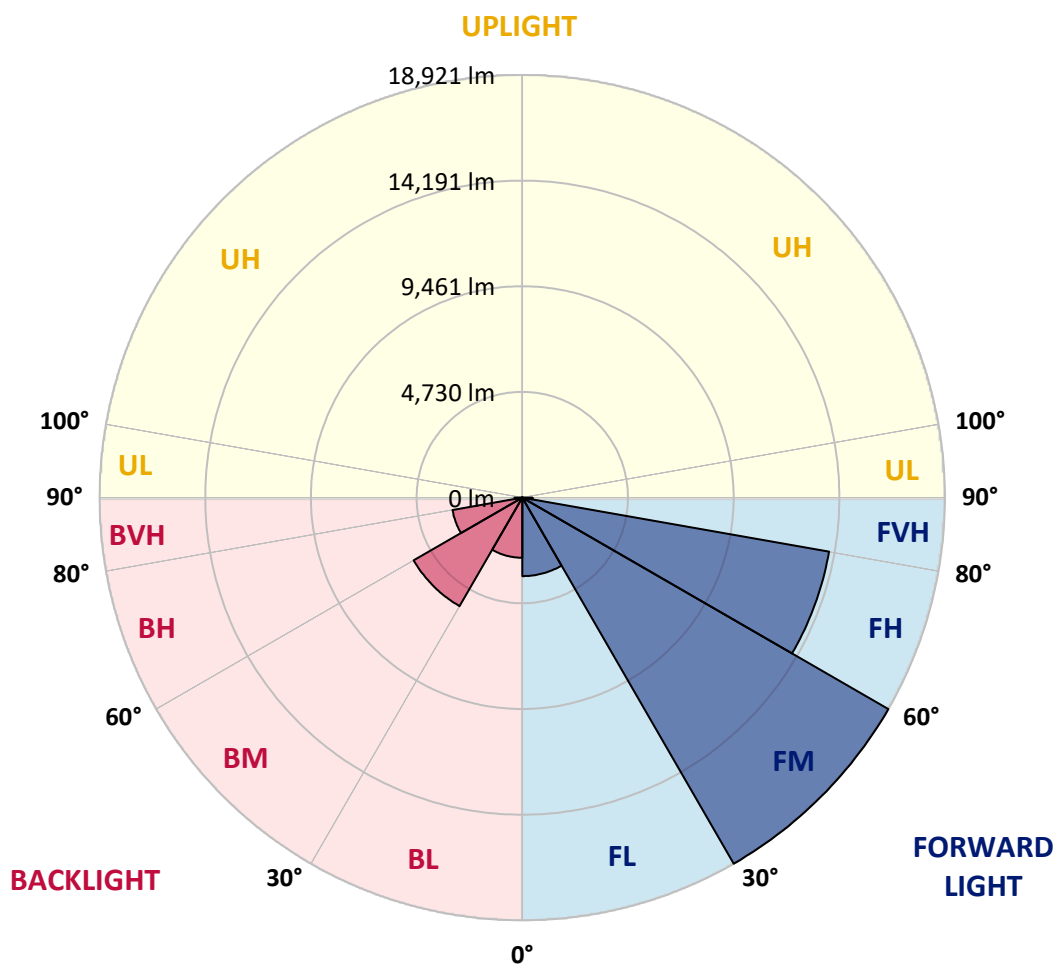
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3514.2	7.2			
FM	(30°-60°)	18921.1	38.9			
FH	(60°-80°)	13943.1	28.7			G5
FVH	(80°-90°)	462.7	1.0			G3/500
BL	(0°-30°)	2692.4	5.5	B4/5000		
BM	(30°-60°)	5611.9	11.5	B4/8500		
BH	(60°-80°)	3171.3	6.5	B4/5000		G4/5000
BVH	(80°-90°)	345.4	0.7			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 III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	6529.0	6529.0	6529.0	6529.0	6529.0	6529.0	6529.0	6529.0	6529.0	6529.0	6529.0
2.5°	6602.2	6599.5	6607.6	6599.5	6604.9	6585.9	6577.8	6583.2	6575.1	6561.5	6537.1
5°	6683.6	6680.9	6683.6	6672.7	6678.2	6667.3	6648.3	6653.7	6640.2	6610.3	6575.1
7.5°	6821.9	6811.1	6811.1	6808.4	6797.5	6781.2	6767.7	6762.2	6748.7	6710.7	6656.5
10°	7000.9	7000.9	7003.7	6982.0	6995.5	6965.7	6952.1	6949.4	6903.3	6854.5	6778.5
12.5°	7236.9	7250.5	7242.4	7231.5	7226.1	7215.2	7169.1	7180.0	7128.4	7044.3	6952.1
15°	7529.9	7551.6	7538.0	7532.6	7519.0	7478.3	7459.4	7451.2	7383.4	7261.3	7139.3
17.5°	7917.8	7890.6	7879.8	7866.2	7809.3	7779.4	7746.9	7741.5	7681.8	7538.0	7348.1
20°	8256.8	8294.8	8273.1	8259.5	8202.6	8145.6	8121.2	8113.1	8061.5	7904.2	7600.4
22.5°	8661.0	8669.1	8677.3	8644.7	8617.6	8574.2	8530.8	8517.2	8498.2	8335.5	7963.9
25°	9092.3	9124.8	9097.7	9065.2	9032.6	9029.9	9070.6	9065.2	9057.0	8899.7	8446.7
27.5°	9794.8	9824.7	9832.8	9797.5	9672.8	9683.6	9775.8	9805.7	9930.4	9670.0	9067.9
30°	10190.8	10220.7	10288.5	10421.4	10619.4	10793.0	11015.4	11083.2	11202.6	10711.6	9805.7
32.5°	10435.0	10445.8	10567.9	10814.7	11408.7	12057.0	12661.9	12686.3	12762.3	12073.3	10481.1
35°	10820.1	10828.3	10925.9	11197.2	11894.3	12973.9	13909.7	13939.5	13877.1	12496.5	10795.7
37.5°	11294.8	11316.5	11378.9	11604.0	12436.8	13741.5	14427.8	14406.1	13852.7	12832.8	11351.8
40°	11986.5	11986.5	11913.3	12217.1	13009.1	14180.9	14609.5	14571.5	14425.0	13806.6	12198.1
42.5°	12596.8	12586.0	12759.6	12965.7	13725.2	14859.0	15371.7	15434.1	15675.5	15029.9	13161.0
45°	13391.6	13440.4	13538.1	13912.4	14943.1	16017.3	16679.1	16738.8	17080.6	16470.3	14286.7
47.5°	14194.5	14210.8	14517.3	15016.4	16451.3	17587.8	18130.3	18228.0	18539.9	18154.7	15499.2
50°	14764.1	14918.7	15409.7	16196.3	18005.5	19502.8	19926.0	20042.6	20593.2	19988.4	16912.4
52.5°	15366.3	15518.2	16117.6	17316.6	19790.4	21461.2	21982.0	22060.7	22633.0	21843.7	18358.2
55°	15881.6	16022.7	16703.5	18309.3	21211.7	23460.4	24404.3	24312.1	24586.0	23273.2	19473.0
57.5°	15965.7	16079.7	16936.8	18944.1	22280.4	25174.7	26528.2	26582.4	26265.1	24341.9	20392.5
60°	15314.7	15548.0	16532.6	18876.2	22760.5	26368.1	28112.3	28150.3	27249.7	24889.8	20758.7
62.5°	14161.9	14137.5	15328.3	17785.8	22087.8	26639.4	29045.4	29004.7	27634.9	24626.7	20403.4
64°	12569.7	12862.6	13974.8	16445.8	21002.8	26221.7	29143.0	29121.3	27450.4	24078.8	19798.5
65°	11598.6	11582.3	12680.9	15350.0	19923.3	25592.4	28969.4	28939.6	27065.3	23587.8	19329.2
67.5°	8373.5	8411.4	9496.4	11845.5	16196.3	23132.1	27838.3	27727.1	25546.3	21960.3	17544.4
70°	5072.4	5094.1	5945.8	7858.1	11625.7	18699.9	25093.3	25098.7	23221.7	19530.0	14932.3
72.5°	2671.8	2728.8	3070.5	4462.1	7060.6	13120.3	20357.3	20840.1	19936.8	16668.3	11796.6
75°	1486.4	1494.6	1736.0	2199.8	3602.2	7342.7	15301.2	15439.5	15784.0	13416.0	8723.4
77.5°	1133.8	1150.1	1226.0	1421.3	1961.1	3404.2	9260.5	9954.9	11123.9	9458.5	4977.4
80°	919.5	935.8	1000.9	1117.5	1304.7	1613.9	4302.0	4676.3	5953.9	4198.9	1942.1
82.5°	716.1	705.2	789.3	865.3	949.4	954.8	1765.8	1953.0	2425.0	1806.5	840.9
85°	531.6	531.6	599.5	583.2	613.0	558.8	778.5	859.9	971.1	767.6	390.6
87.5°	211.6	233.3	393.3	352.6	274.0	219.7	287.5	303.8	336.3	301.1	162.7
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°	6529.0	6529.0	6529.0	6529.0	6529.0	6529.0	6529.0	6529.0	6529.0	6529.0	6529.0
2.5°	6539.8	6548.0	6529.0	6515.4	6510.0	6501.8	6493.7	6496.4	6507.3	6518.1	6515.4
5°	6572.4	6575.1	6542.5	6526.3	6515.4	6504.6	6504.6	6512.7	6534.4	6550.7	6550.7
7.5°	6653.7	6653.7	6607.6	6577.8	6561.5	6542.5	6537.1	6539.8	6556.1	6577.8	6580.5
10°	6781.2	6770.4	6710.7	6664.6	6634.8	6588.6	6548.0	6526.3	6534.4	6548.0	6548.0
12.5°	6935.8	6906.0	6830.1	6767.7	6694.4	6607.6	6523.5	6480.1	6477.4	6491.0	6485.6
15°	7101.3	7068.8	6963.0	6849.0	6721.6	6594.1	6493.7	6431.3	6382.5	6368.9	6398.8
17.5°	7293.9	7226.1	7079.6	6922.3	6732.4	6566.9	6409.6	6282.1	6195.3	6170.9	6179.1
20°	7527.2	7437.7	7239.6	6992.8	6724.3	6469.3	6225.2	6054.3	5913.2	5869.8	5875.3
22.5°	7850.0	7695.3	7405.1	7028.1	6656.5	6284.8	5945.8	5723.4	5552.5	5484.7	5525.3
25°	8216.1	8048.0	7562.4	7019.9	6480.1	5989.2	5614.9	5324.6	5170.0	5069.7	5091.4
27.5°	8720.7	8422.3	7730.6	6946.7	6227.9	5628.4	5194.4	4920.5	4779.4	4727.9	4752.3
30°	9366.2	8907.8	7912.3	6748.7	5829.1	5172.7	4771.3	4592.3	4508.2	4443.1	4464.8
32.5°	9832.8	9249.6	7953.0	6415.0	5397.9	4757.7	4483.8	4350.8	4258.6	4196.2	4209.8
35°	10166.4	9539.8	7934.0	6005.5	4947.6	4415.9	4255.9	4147.4	3998.2	3862.6	3838.2
37.5°	10614.0	9903.3	7795.7	5557.9	4502.7	4185.4	4071.5	3870.7	3656.4	3474.7	3466.6
40°	11300.2	10329.2	7500.0	5031.7	4123.0	4014.5	3876.2	3615.8	3385.2	3238.7	3227.9
42.5°	12008.2	10722.5	7098.6	4478.3	3811.1	3835.5	3667.3	3409.6	3268.6	3173.6	3162.8
45°	12873.5	11148.3	6664.6	3998.2	3580.5	3667.3	3485.6	3336.4	3252.3	3189.9	3173.6
47.5°	13809.3	11585.1	6176.3	3566.9	3385.2	3512.7	3409.6	3341.8	3295.7	3252.3	3233.3
50°	14818.4	12073.3	5717.9	3219.7	3208.9	3352.6	3401.5	3377.1	3349.9	3336.4	3320.1
52.5°	15925.0	12572.4	5332.8	2975.6	3054.3	3238.7	3404.2	3423.2	3423.2	3415.0	3404.2
55°	16673.7	12919.6	4942.2	2777.6	2896.9	3146.5	3398.8	3472.0	3499.1	3488.3	3477.4
57.5°	17227.0	13109.5	4451.2	2606.7	2764.0	3057.0	3368.9	3477.4	3504.5	3518.1	3512.7
60°	17341.0	12933.2	3808.3	2427.7	2620.3	2926.8	3260.4	3396.0	3431.3	3515.4	3523.5
62.5°	16828.3	12390.7	3168.2	2251.4	2444.0	2728.8	3113.9	3303.8	3374.3	3504.5	3518.1
64°	16199.0	11783.1	2812.9	2140.2	2330.0	2617.6	3040.7	3279.4	3371.6	3545.2	3556.1
65°	15737.9	11340.9	2590.4	2069.6	2256.8	2544.3	3000.0	3287.5	3396.0	3607.6	3623.9
67.5°	14039.9	9819.2	2142.9	1904.2	2083.2	2419.5	3008.2	3355.4	3390.6	3632.0	3629.3
70°	11617.6	7817.4	1795.7	1752.3	1915.0	2319.2	2975.6	3246.9	3249.6	3409.6	3371.6
72.5°	8699.0	5777.6	1557.0	1594.9	1727.9	2080.5	2810.1	3100.4	3054.3	3076.0	3038.0
75°	5975.6	3821.9	1340.0	1426.8	1532.6	1839.1	2576.9	2815.6	2742.3	2715.2	2688.1
77.5°	3189.9	2113.0	1114.8	1261.3	1331.8	1589.5	2248.7	2479.2	2403.3	2297.5	2262.2
80°	1291.1	995.5	897.8	1044.3	1085.0	1280.3	1871.6	2015.4	1958.4	1774.0	1714.3
82.5°	648.3	596.7	705.2	821.9	824.6	914.1	1391.5	1527.1	1399.6	1174.5	1123.0
85°	339.1	349.9	485.5	577.8	509.9	493.7	835.4	925.0	849.0	737.8	664.6
87.5°	122.1	141.0	255.0	252.3	179.0	94.9	184.4	89.5	48.8	29.8	38.0
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)