

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: P458125

Luminaire Tested: **GALN-SA9C-730-U-T2**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P458125  
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-SA9C-730-U-T2  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 58375 lumens  
Efficiency: N/A  
Efficacy: 121.4 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

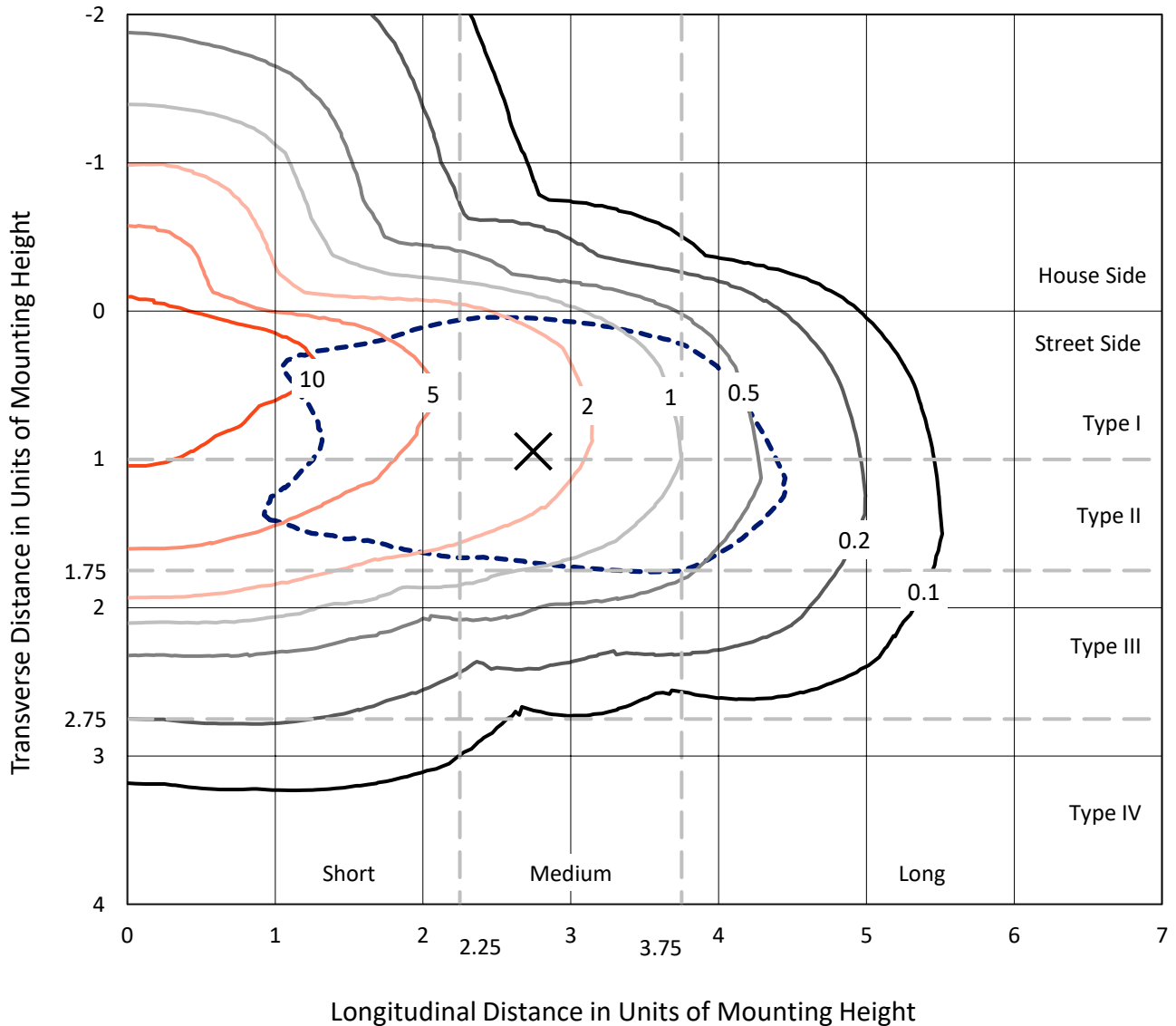
Input Watts (W): 481  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

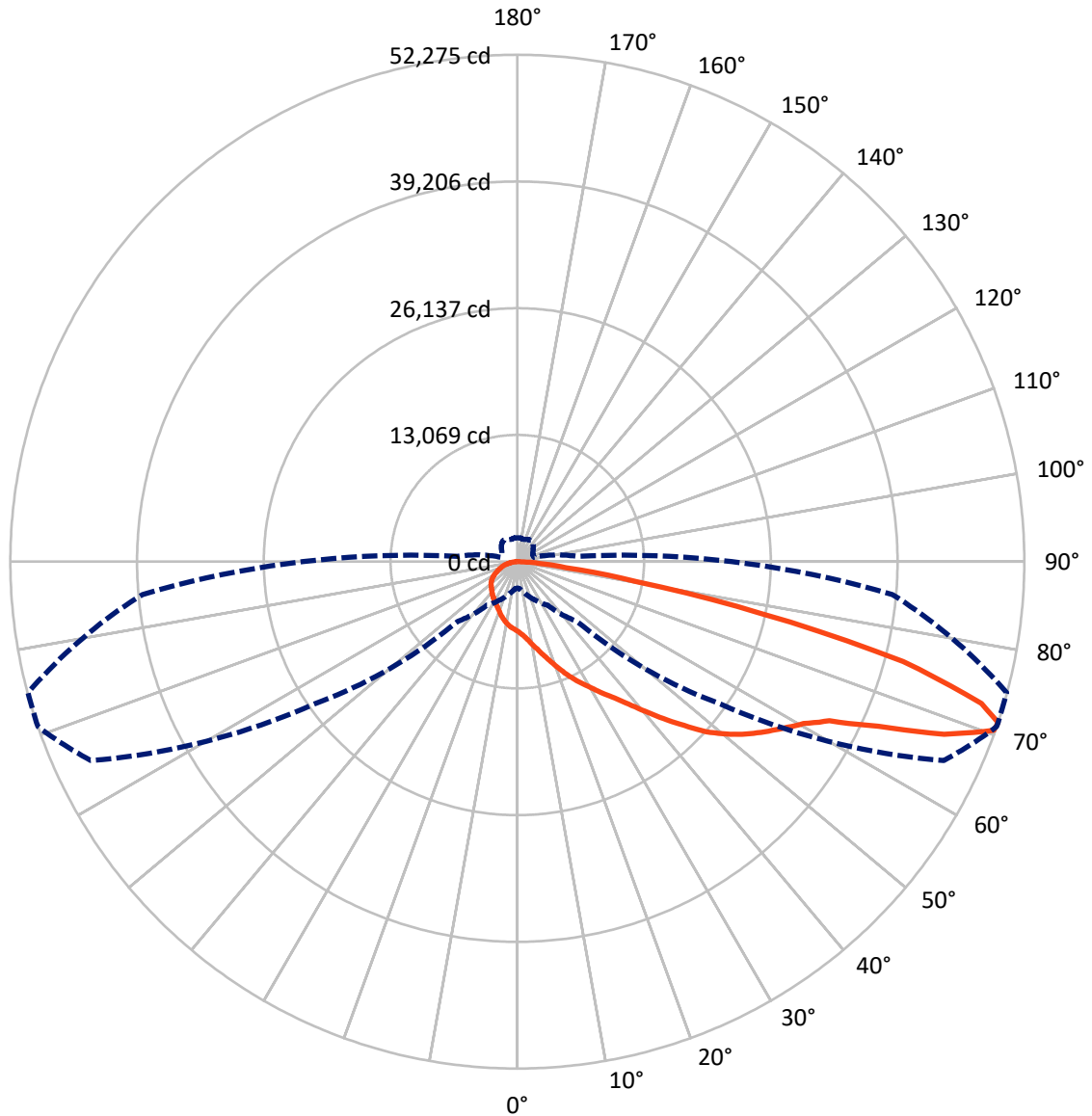
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.3 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	10498.6	0.0	10498.6
	% Fixture	18.0	0.0	18.0
<b>Street Side</b>	Lumens	47876.4	0.0	47876.4
	% Fixture	82.0	0.0	82.0
<b>Total</b>	Lumens	58375.0	0.0	58375.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	719.4	1.2
10°-20°	2337.1	4.0
20°-30°	4084.3	7.0
30°-40°	6074.9	10.4
40°-50°	8950.6	15.3
50°-60°	12530.9	21.5
60°-70°	14015.4	24.0
70°-80°	8561.2	14.7
80°-90°	1101.3	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°	58375.0	100.0
0°-180°	58375.0	100.0

**Coefficient of Utilization**



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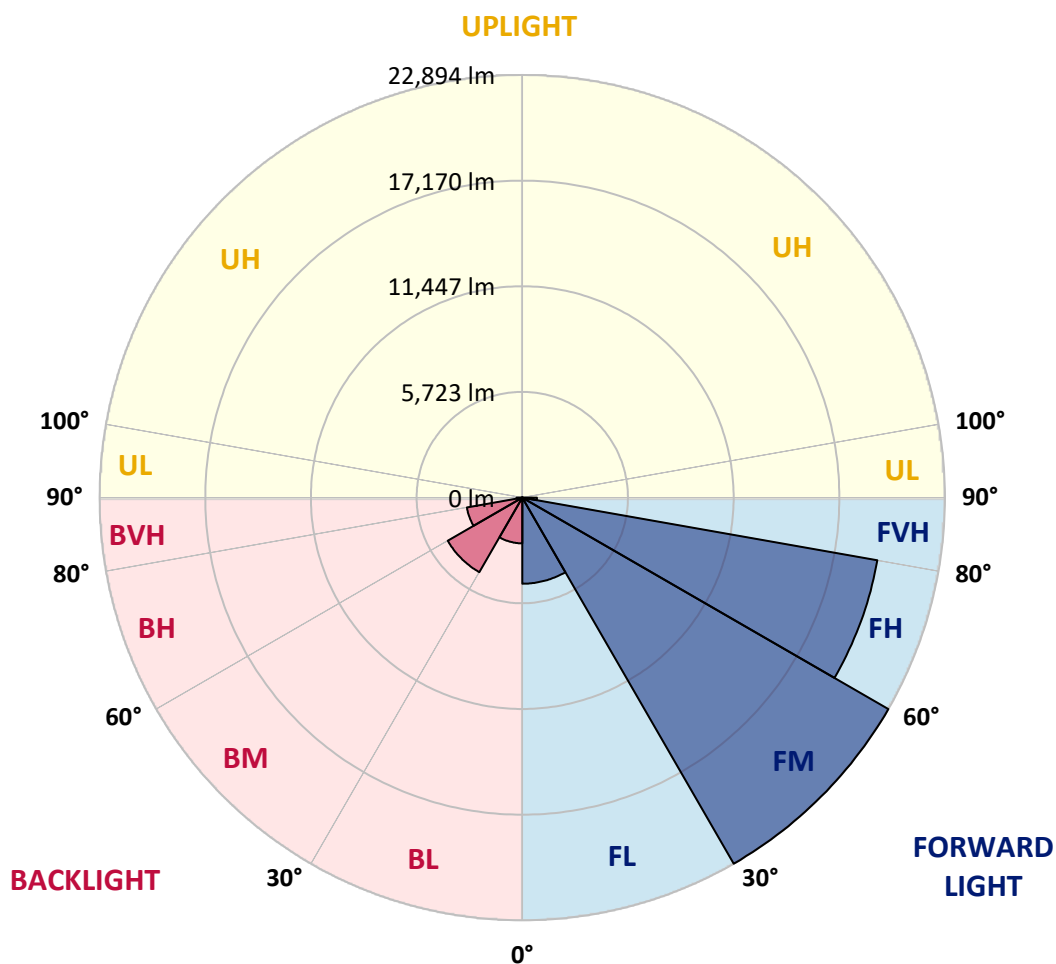
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4664.2	8.0			
FM	(30°-60°)	22893.5	39.2			
FH	(60°-80°)	19526.3	33.4			G5
FVH	(80°-90°)	792.4	1.4			G5
BL	(0°-30°)	2476.6	4.2	B3/2500		
BM	(30°-60°)	4662.8	8.0	B3/5000		
BH	(60°-80°)	3050.3	5.2	B4/5000		G4/5000
BVH	(80°-90°)	308.9	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°	7164.4	7164.4	7164.4	7164.4	7164.4	7164.4	7164.4	7164.4	7164.4	7164.4	7164.4
2.5°	7953.6	7915.1	7918.4	7863.8	7793.2	7716.2	7607.1	7510.9	7433.9	7389.0	7257.4
5°	8813.5	8775.0	8726.9	8608.2	8556.8	8367.5	8126.9	7908.7	7741.9	7648.8	7385.8
7.5°	9509.7	9500.1	9487.3	9419.9	9288.3	9025.3	8819.9	8441.3	8194.3	8017.8	7568.6
10°	9939.7	9955.7	9965.3	9978.2	9923.6	9785.7	9503.3	9025.3	8710.8	8486.2	7806.1
12.5°	10157.8	10173.9	10228.4	10347.1	10420.9	10404.9	10173.9	9705.4	9272.3	8977.1	8059.5
15°	10292.6	10318.2	10414.5	10571.7	10818.8	10976.0	10863.7	10430.5	9955.7	9606.0	8361.1
17.5°	10440.2	10469.0	10574.9	10799.5	11123.6	11463.6	11585.6	11213.4	10696.8	10279.7	8698.0
20°	10523.6	10562.1	10712.9	11008.1	11386.6	11880.7	12285.0	12089.3	11524.6	11062.6	9086.2
22.5°	10658.3	10690.4	10818.8	11133.2	11585.6	12204.8	12984.4	12942.7	12445.4	11848.7	9512.9
25°	11024.1	11075.4	11139.6	11328.9	11765.2	12535.3	13565.2	13853.9	13337.4	12670.0	9904.4
27.5°	11713.9	11755.6	11752.4	11778.1	12025.1	12820.8	14068.9	14755.5	14222.9	13501.0	10283.0
30°	12500.0	12516.0	12528.8	12471.1	12525.6	13112.8	14530.9	15647.4	15114.8	14354.4	10613.4
32.5°	13456.1	13488.2	13379.1	13231.5	13186.6	13545.9	14912.7	16539.4	16170.4	15220.7	10940.7
35°	14585.4	14668.9	14447.5	14187.6	14004.7	14168.3	15426.0	17450.5	17251.6	16327.6	11373.8
37.5°	15875.2	15977.9	15772.5	15262.4	15002.5	15047.4	16096.6	18576.7	18618.4	17588.5	12018.7
40°	16930.8	17065.5	17072.0	16350.1	15955.4	16006.8	16946.8	19789.5	20267.5	19147.8	12779.1
42.5°	17627.0	17758.6	17896.5	17473.0	17059.1	17351.1	17938.2	21104.9	22122.0	21040.8	13841.1
45°	18390.6	18509.3	18586.3	18393.8	18162.8	18920.0	19135.0	22503.8	24098.4	23155.1	15002.5
47.5°	19276.1	19407.7	19481.5	19298.6	19212.0	20296.4	20424.7	23809.6	26209.5	25208.5	16285.9
50°	20456.8	20556.3	20517.8	20402.3	20383.0	21352.0	21663.2	25032.0	27951.7	27419.1	17617.4
52.5°	21926.3	22045.0	22086.7	21923.1	21849.3	22105.9	22661.0	26145.3	29536.6	29318.5	19038.7
55°	22815.0	23004.3	23639.6	23896.2	24072.7	23081.3	23735.8	27374.2	30957.9	31320.5	20565.9
57.5°	21676.0	21919.9	23341.2	24624.5	26283.3	25519.7	25259.8	28657.5	32379.3	33261.6	22394.7
60°	18897.5	18952.1	20784.1	23148.7	26485.4	28654.3	28439.3	30698.1	33919.3	35218.7	24804.2
62.5°	13109.6	13225.1	15390.7	19163.8	23989.3	29783.7	33848.7	34220.9	36126.7	38148.0	28336.7
65°	6760.1	6609.3	8582.5	12044.4	18085.8	27101.4	38231.4	40698.7	40913.6	42729.6	33309.7
67.5°	4161.3	4228.7	5152.7	7032.8	10693.6	19696.4	37772.6	48613.8	47481.3	48353.9	37926.6
70°	3125.0	3208.4	3843.7	4812.6	6519.5	11261.5	30377.2	50532.5	52114.2	51889.6	39331.9
71°	2717.5	2804.2	3465.1	4379.5	5476.8	8691.6	25593.5	48524.0	52274.6	52236.1	38802.5
72.5°	2316.5	2371.0	2887.6	3708.9	4616.9	6092.8	19228.0	43518.9	50044.8	51324.9	36912.8
75°	1819.2	1860.9	2091.9	2829.8	3635.1	3741.0	10318.2	32626.3	41102.9	43541.3	30730.2
77.5°	1482.3	1511.2	1629.9	2101.5	2804.2	2650.1	5412.6	21236.5	25750.7	28205.1	18101.8
80°	1177.5	1209.6	1280.2	1424.5	2101.5	1889.8	2582.8	10761.0	12439.0	12413.3	7225.3
82.5°	914.4	924.0	1007.4	1045.9	1437.4	1341.1	1398.9	4555.9	5046.8	5213.7	2608.4
85°	577.5	606.4	891.9	802.1	859.9	786.1	689.8	1809.5	2229.8	2197.8	1042.7
87.5°	176.5	186.1	301.6	340.1	381.8	343.3	253.5	532.6	651.3	705.9	259.9
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°	7164.4	7164.4	7164.4	7164.4	7164.4	7164.4	7164.4	7164.4	7164.4	7164.4	7164.4
2.5°	7206.1	7170.8	7045.7	6943.0	6846.7	6740.9	6651.0	6625.4	6602.9	6593.3	6590.1
5°	7273.5	7167.6	6920.5	6718.4	6558.0	6410.4	6317.4	6275.7	6233.9	6233.9	6246.8
7.5°	7369.7	7177.2	6795.4	6493.8	6291.7	6153.7	6086.4	6079.9	6089.6	6099.2	6102.4
10°	7475.6	7170.8	6612.5	6237.1	6057.5	5993.3	5996.5	6051.1	6102.4	6140.9	6147.3
12.5°	7578.3	7132.3	6397.6	5996.5	5881.0	5893.8	5983.7	6105.6	6205.1	6259.6	6262.8
15°	7693.8	7071.3	6137.7	5768.7	5730.2	5829.7	5996.5	6182.6	6333.4	6423.2	6432.9
17.5°	7790.0	6968.7	5865.0	5547.3	5595.5	5778.3	6009.4	6250.0	6432.9	6545.2	6564.4
20°	7899.1	6837.1	5582.6	5335.6	5473.5	5720.6	5983.7	6243.6	6432.9	6541.9	6567.6
22.5°	7985.7	6651.0	5313.1	5162.3	5364.5	5650.0	5897.1	6105.6	6259.6	6317.4	6355.9
25°	8021.0	6416.8	5059.7	5021.2	5277.8	5534.5	5701.3	5820.1	5868.2	5861.8	5877.8
27.5°	8001.8	6147.3	4841.5	4908.9	5168.7	5354.8	5438.3	5428.6	5342.0	5261.8	5300.3
30°	7921.6	5826.5	4658.6	4793.4	5027.6	5130.2	5117.4	4992.3	4828.7	4677.9	4687.5
32.5°	7777.2	5480.0	4488.6	4661.8	4828.7	4873.6	4786.9	4623.3	4389.1	4193.4	4164.5
35°	7655.3	5149.5	4337.8	4511.0	4629.7	4607.3	4523.9	4312.1	4100.3	3927.1	3898.2
37.5°	7636.0	4867.2	4193.4	4341.0	4408.4	4376.3	4273.6	4093.9	4016.9	3885.4	3869.3
40°	7738.7	4668.2	4045.8	4161.3	4193.4	4167.7	4055.4	3952.8	4023.3	3991.3	3991.3
42.5°	8017.8	4562.4	3914.3	3981.6	4007.3	4026.6	3946.3	3859.7	3946.3	3798.8	3750.6
45°	8460.6	4565.6	3795.5	3805.2	3882.2	3949.6	3895.0	3766.7	3721.8	3426.6	3368.8
47.5°	9111.9	4674.7	3699.3	3638.3	3776.3	3888.6	3811.6	3625.5	3426.6	3230.9	3195.6
50°	9872.3	4870.4	3612.7	3465.1	3635.1	3811.6	3753.8	3535.7	3330.3	3211.6	3189.2
52.5°	10716.1	5117.4	3506.8	3272.6	3461.9	3776.3	3766.7	3522.8	3240.5	3160.3	3141.0
55°	11758.8	5361.3	3375.2	3048.0	3307.9	3747.4	3731.4	3417.0	3221.2	3163.5	3157.1
57.5°	12971.6	5714.2	3186.0	2820.2	3131.4	3628.7	3593.4	3352.8	3157.1	3115.4	3112.2
60°	14925.5	6262.8	2916.4	2611.6	2951.7	3420.2	3465.1	3243.7	3054.4	3044.8	3041.6
62.5°	17495.5	7032.8	2637.3	2396.7	2743.2	3150.7	3279.0	3096.1	2945.3	2993.4	2999.9
65°	21044.0	7680.9	2348.6	2213.8	2512.2	2890.8	3102.5	2958.2	2823.4	2916.4	2916.4
67.5°	23357.2	7693.8	2085.5	2024.5	2278.0	2672.6	2916.4	2794.5	2666.2	2823.4	2829.8
70°	22876.0	6740.9	1867.3	1825.6	2050.2	2438.4	2711.1	2614.9	2467.3	2608.4	2557.1
71°	22099.5	6211.5	1780.7	1748.6	1960.3	2326.1	2614.9	2534.6	2387.1	2480.1	2451.2
72.5°	20861.1	5393.3	1639.5	1645.9	1825.6	2184.9	2480.1	2396.7	2249.1	2300.4	2290.8
75°	17633.4	4709.9	1402.1	1431.0	1568.9	1944.3	2210.6	2146.4	1995.6	1995.6	1986.0
77.5°	11024.1	3291.8	1164.7	1180.7	1331.5	1665.2	1899.4	1844.8	1700.5	1652.3	1639.5
80°	4113.2	1700.5	911.2	930.4	1023.5	1312.2	1572.1	1520.8	1373.2	1318.7	1267.3
82.5°	1556.1	853.4	670.6	654.5	754.0	1001.0	1232.0	1171.1	1055.6	924.0	885.5
85°	587.1	423.5	410.7	397.8	442.8	593.6	763.6	750.8	628.8	535.8	526.2
87.5°	154.0	138.0	160.4	118.7	125.1	112.3	115.5	48.1	22.5	9.6	6.4
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)