

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: P458127

Luminaire Tested: **GALN-SA9C-730-U-T2R**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P458127  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-6)  
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-T2R  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 59155 lumens  
Efficiency: N/A  
Efficacy: 123.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B4 - U0 - G5

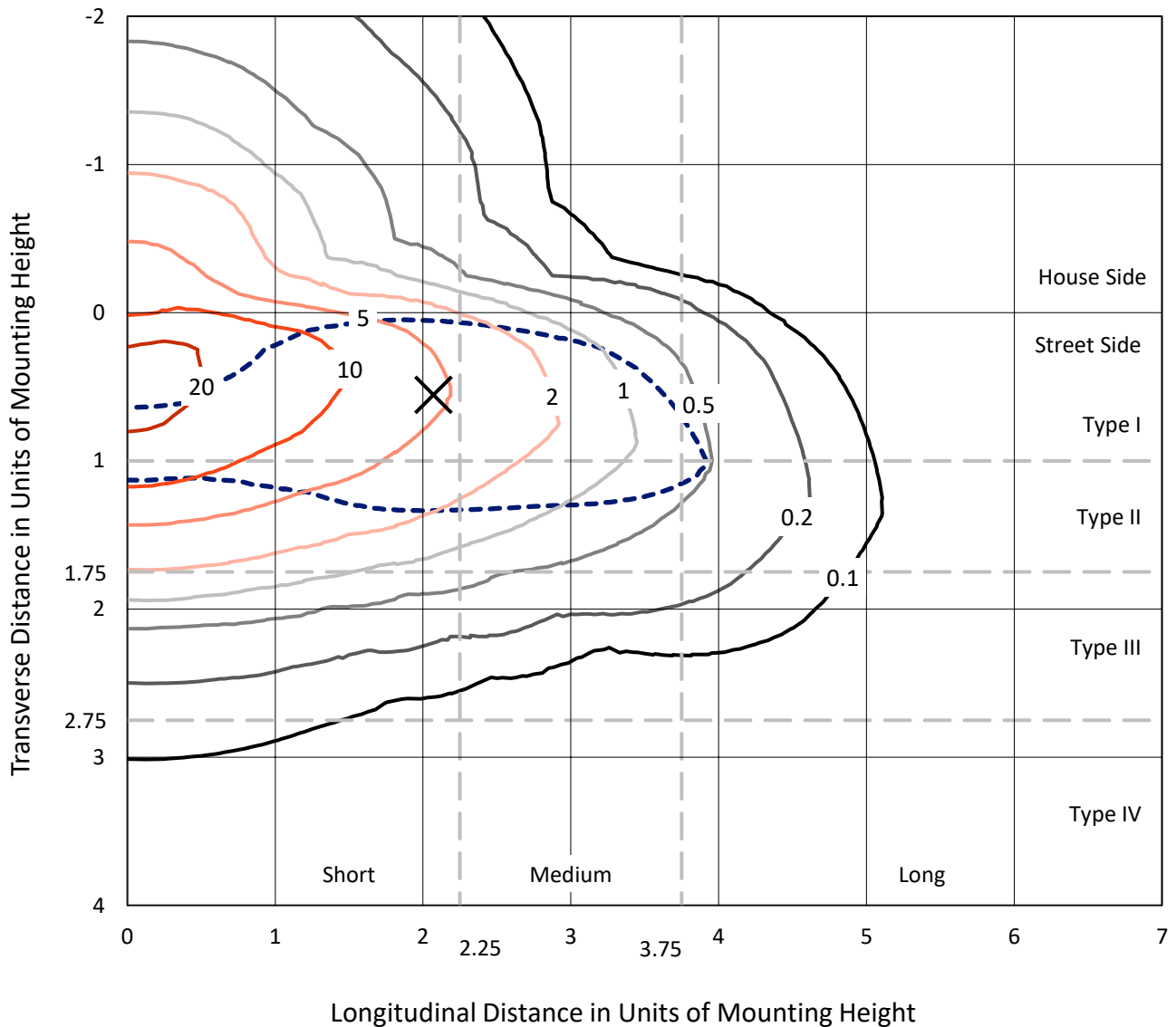
Input Watts (W): 481  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

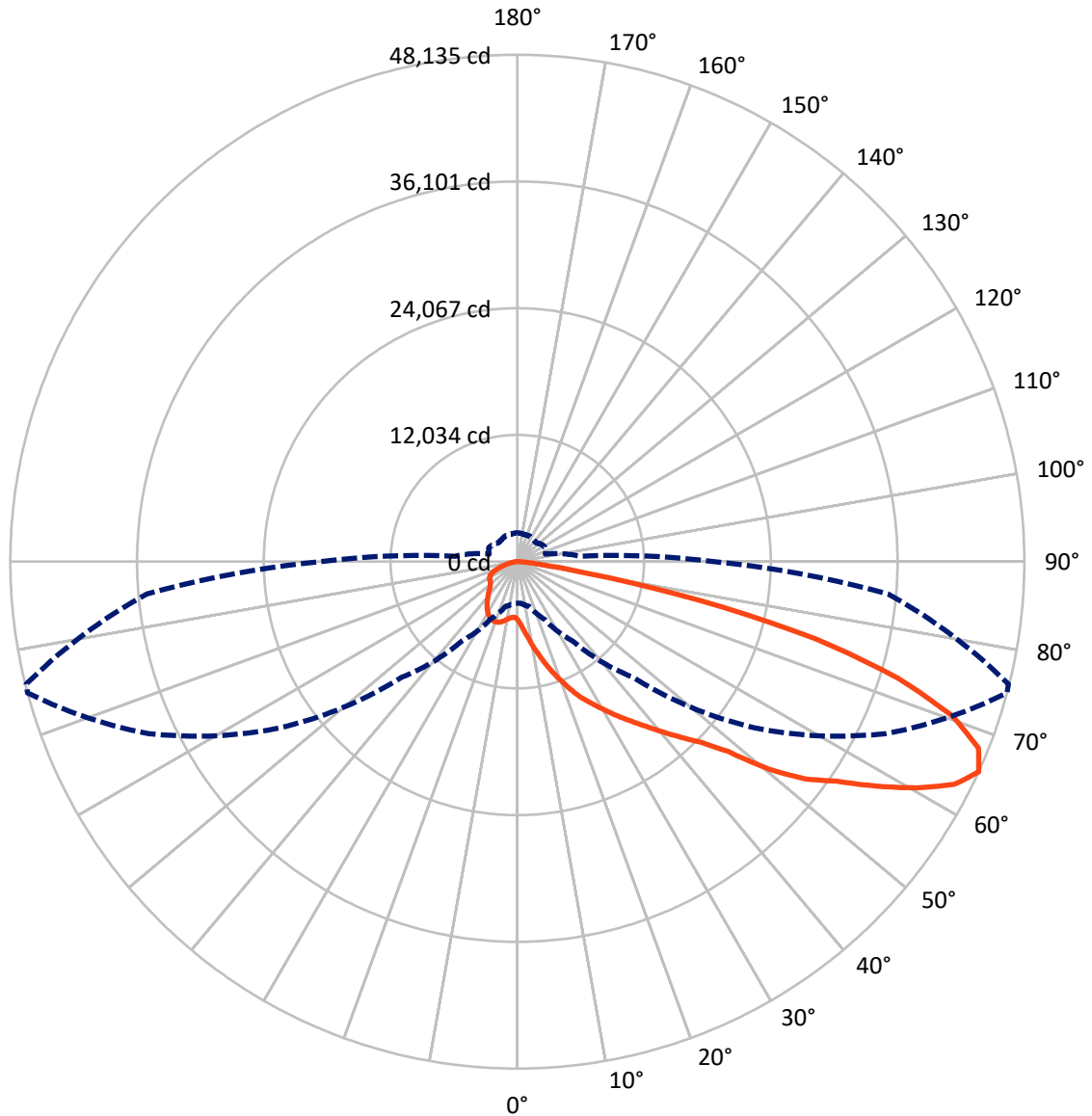
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 22.8 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral    - - - Horizontal Cone Through 65-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	9944.7	0.0	9944.7
	% Fixture	16.8	0.0	16.8
<b>Street Side</b>	Lumens	49210.3	0.0	49210.3
	% Fixture	83.2	0.0	83.2
<b>Total</b>	Lumens	59155.0	0.0	59155.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	667.8	1.1
10°-20°	2615.6	4.4
20°-30°	5052.4	8.5
30°-40°	8206.7	13.9
40°-50°	11289.0	19.1
50°-60°	13328.5	22.5
60°-70°	11678.0	19.7
70°-80°	5575.2	9.4
80°-90°	741.8	1.3
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°	59155.0	100.0
0°-180°	59155.0	100.0

**Coefficient of Utilization**



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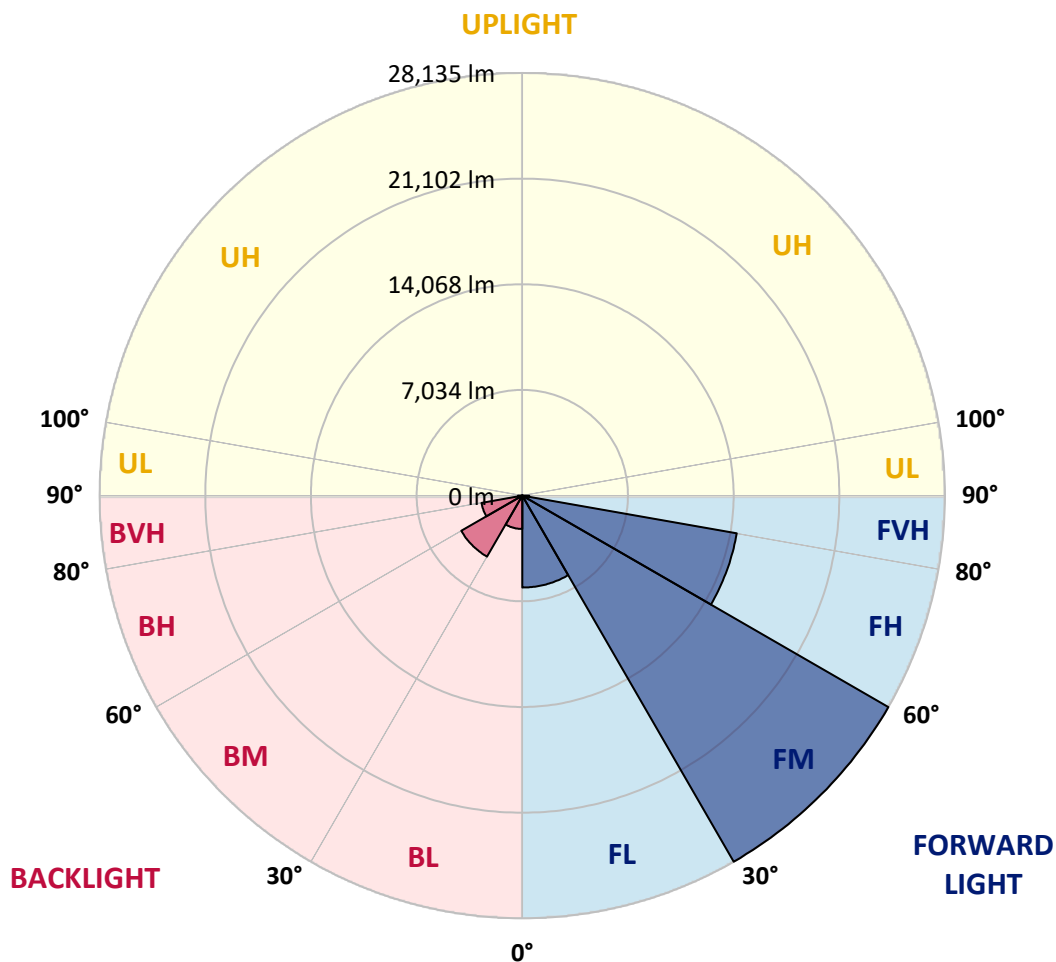
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	6115.7	10.3			
FM	(30°-60°)	28135.4	47.6			
FH	(60°-80°)	14495.6	24.5			G5
FVH	(80°-90°)	463.6	0.8			G3/500
BL	(0°-30°)	2220.1	3.8	B3/2500		
BM	(30°-60°)	4688.9	7.9	B3/5000		
BH	(60°-80°)	2757.5	4.7	B4/5000		G4/5000
BVH	(80°-90°)	278.2	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 Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	5496.2	5496.2	5496.2	5496.2	5496.2	5496.2	5496.2	5496.2	5496.2	5496.2	5496.2
2.5°	7302.7	7254.5	7203.2	7062.0	6911.2	6741.2	6497.3	6263.1	5951.9	5942.2	5711.2
5°	9327.3	9295.2	9067.4	8935.8	8586.1	8120.8	7726.2	7113.4	6545.4	6478.1	6028.9
7.5°	11188.2	11063.1	10976.5	10739.0	10392.5	9795.7	9032.1	8204.3	7254.5	7164.7	6420.3
10°	12590.4	12577.5	12532.6	12327.3	12067.4	11473.8	10626.7	9439.6	8152.9	7976.5	6895.2
12.5°	13639.5	13649.2	13642.8	13639.5	13453.5	12949.7	12032.1	10780.7	9060.9	8935.8	7443.8
15°	14329.4	14425.6	14464.1	14624.6	14640.6	14303.7	13514.4	12077.0	10084.5	9898.4	8034.2
17.5°	14785.0	14833.1	15012.8	15285.5	15506.9	15446.0	14743.3	13277.0	11130.5	10819.2	8647.0
20°	15221.4	15304.8	15442.8	15814.9	16206.4	16386.1	15891.9	14505.9	12166.8	11967.9	9324.0
22.5°	16129.4	16248.1	16296.2	16485.5	16819.2	17136.9	16912.3	15683.4	13302.6	13033.1	10042.8
25°	17666.3	17791.4	17656.7	17611.7	17720.8	17878.0	17829.9	16793.6	14374.3	13989.3	10723.0
27.5°	19668.4	19684.5	19421.4	19171.1	18901.6	18821.4	18673.8	17778.6	15304.8	14983.9	11406.4
30°	21818.1	21741.1	21304.8	20852.4	20396.8	19947.6	19524.0	18728.3	16341.1	15972.2	12077.0
32.5°	23813.9	23772.1	23287.7	22585.0	21814.9	21391.4	20534.7	19687.7	17451.3	17095.2	12766.8
35°	25309.0	25370.0	24837.4	24070.5	23229.9	22854.5	21773.2	20695.1	18600.0	18211.7	13517.6
37.5°	26371.1	26339.0	25867.3	25203.2	24465.2	24137.9	23220.3	21795.7	19835.3	19463.1	14339.0
40°	26749.7	26730.4	26380.7	25896.2	25427.8	25312.3	24734.7	22982.8	21250.2	20813.9	15327.2
42.5°	26509.0	26550.8	26319.7	26188.2	26101.6	26185.0	26239.5	24539.0	22793.5	22392.5	16398.9
45°	25771.1	25748.6	25716.5	25931.5	26419.2	26967.9	27728.3	26008.5	24471.6	24150.8	17836.3
47.5°	24452.4	24612.8	24693.0	25286.6	26351.8	27651.3	29441.7	27978.6	26906.9	26627.8	20027.8
50°	22607.4	22735.8	23210.7	24266.3	25854.5	27908.0	31116.5	31199.9	30968.9	30445.9	22408.5
52.5°	19726.2	19925.1	20903.7	22838.5	24834.2	27802.1	32130.4	33962.5	34267.3	33875.9	24754.0
55°	16501.6	16780.7	17813.9	20351.8	23428.8	27224.5	32829.9	35563.6	36779.6	36417.0	27012.8
57.5°	13344.4	13639.5	14701.6	17159.3	20977.5	25947.5	33288.7	37347.5	40199.9	39728.3	29823.5
60°	10001.1	10309.1	11220.3	13751.8	17486.6	23451.3	32977.5	38894.0	43617.0	43414.9	32637.4
62.5°	6452.4	6792.5	7585.0	9680.2	13440.6	20040.6	31312.2	39747.5	46575.3	46331.5	34690.8
65°	3930.5	3969.0	4405.3	6009.6	9198.9	15516.5	27503.7	38614.9	48134.7	48060.9	35316.5
67.5°	2541.2	2602.1	2801.1	3600.0	5515.5	10777.5	21991.4	34876.9	47223.4	47197.8	34023.5
70°	2146.5	2165.8	2255.6	2428.9	3205.3	6535.8	15442.8	28918.7	43761.4	43761.4	30914.4
72.5°	1918.7	1944.4	1976.5	2031.0	2287.7	3702.7	9215.0	22511.2	37783.9	38034.2	26313.3
75°	1742.2	1735.8	1755.1	1764.7	1950.8	2419.2	4764.7	16649.2	29229.9	28729.4	19055.6
77.5°	1492.0	1501.6	1492.0	1533.7	1723.0	1841.7	2419.2	11172.2	17714.4	17066.3	9564.7
80°	1225.7	1241.7	1257.8	1283.4	1472.7	1398.9	1453.5	5092.0	6551.9	6413.9	2955.1
82.5°	920.9	943.3	969.0	1029.9	1158.3	924.1	917.6	2175.4	2364.7	2165.8	1087.7
85°	372.2	439.6	664.2	725.1	728.3	507.0	564.7	908.0	965.8	943.3	426.7
87.5°	86.6	102.7	215.0	324.1	298.4	189.3	208.6	295.2	336.9	311.2	144.4
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°	5496.2	5496.2	5496.2	5496.2	5496.2	5496.2	5496.2	5496.2	5496.2	5496.2	5496.2
2.5°	5605.3	5493.0	5300.5	5152.9	5047.0	4954.0	4896.2	4861.0	4848.1	4844.9	4848.1
5°	5794.6	5595.7	5290.9	5098.4	4992.5	4931.5	4896.2	4893.0	4896.2	4899.5	4889.8
7.5°	6054.5	5769.0	5371.1	5191.4	5111.2	5066.3	5050.3	5043.8	5047.0	5043.8	5043.8
10°	6401.1	6009.6	5528.3	5342.2	5274.9	5223.5	5197.9	5181.8	5169.0	5156.1	5149.7
12.5°	6782.9	6275.9	5698.4	5518.7	5422.4	5342.2	5284.5	5242.8	5213.9	5185.0	5178.6
15°	7209.6	6558.3	5887.7	5637.4	5499.5	5380.7	5281.3	5213.9	5162.6	5120.8	5117.6
17.5°	7617.1	6824.6	6016.0	5692.0	5489.8	5323.0	5191.4	5098.4	5034.2	4979.7	4973.3
20°	8053.5	7078.1	6073.8	5656.7	5393.6	5191.4	5018.2	4905.9	4832.1	4771.1	4761.5
22.5°	8493.0	7293.0	6067.4	5544.4	5226.7	4989.3	4806.4	4687.7	4601.1	4540.1	4517.6
25°	8913.4	7466.3	5987.2	5364.7	4995.7	4748.7	4562.6	4453.5	4376.5	4302.7	4302.7
27.5°	9292.0	7569.0	5836.4	5146.5	4758.3	4498.4	4350.8	4251.3	4180.7	4132.6	4103.7
30°	9664.2	7617.1	5631.0	4870.6	4508.0	4286.6	4167.9	4110.2	4046.0	3991.4	3985.0
32.5°	9997.8	7607.5	5374.3	4601.1	4270.6	4113.4	4065.2	4020.3	3952.9	3875.9	3856.7
35°	10321.9	7543.3	5069.5	4305.9	4071.7	4010.7	4023.5	3959.4	3837.4	3741.2	3725.1
37.5°	10674.8	7427.8	4735.8	4065.2	3904.8	3962.6	3994.6	3853.5	3654.5	3503.7	3468.4
40°	11082.3	7296.2	4389.3	3824.6	3773.3	3917.6	3917.6	3657.7	3385.0	3292.0	3266.3
42.5°	11560.4	7187.2	4100.5	3622.5	3664.2	3808.5	3792.5	3397.9	3285.6	3237.4	3224.6
45°	12317.6	7148.7	3802.1	3446.0	3574.3	3680.2	3548.7	3308.0	3243.8	3205.3	3192.5
47.5°	13514.4	7193.6	3539.0	3314.4	3471.7	3551.9	3275.9	3247.1	3202.1	3147.6	3141.2
50°	14624.6	7151.9	3352.9	3240.6	3381.8	3397.9	3163.6	3173.3	3147.6	3086.6	3073.8
52.5°	15532.6	7020.3	3234.2	3202.1	3304.8	3128.3	3057.7	3093.0	3083.4	3006.4	2993.6
55°	16530.5	6940.1	3176.5	3202.1	3253.5	2894.1	2958.3	3009.6	2996.8	2942.2	2939.0
57.5°	17740.1	6956.1	3134.8	3211.8	3202.1	2775.4	2858.8	2919.8	2916.6	2900.5	2900.5
60°	18978.6	6962.6	3070.6	3208.6	3141.2	2682.3	2756.1	2842.8	2849.2	2858.8	2858.8
62.5°	19389.3	6683.4	2945.4	3150.8	3006.4	2592.5	2659.9	2778.6	2772.2	2797.9	2801.1
65°	18622.4	5910.1	2759.4	3019.2	2833.1	2528.3	2586.1	2695.2	2659.9	2727.3	2740.1
67.5°	16950.8	4889.8	2470.6	2781.8	2640.6	2461.0	2538.0	2579.7	2515.5	2647.1	2650.3
70°	14650.2	3818.2	2104.8	2444.9	2422.5	2390.4	2499.5	2435.3	2345.5	2505.9	2473.8
72.5°	12250.2	2916.6	1681.3	1998.9	2130.5	2284.5	2432.1	2249.2	2124.1	2172.2	2114.4
75°	9202.1	2156.1	1350.8	1565.8	1774.3	2133.7	2371.1	2024.6	1832.1	1787.2	1774.3
77.5°	4690.9	1408.6	1010.7	1171.1	1331.5	1928.3	2287.7	1761.5	1517.6	1447.1	1415.0
80°	1674.9	875.9	712.3	808.6	898.4	1658.8	1998.9	1456.7	1177.5	1164.7	1177.5
82.5°	776.5	564.7	478.1	529.4	532.6	1106.9	1524.1	1087.7	895.2	1360.4	1148.7
85°	333.7	282.4	269.5	263.1	243.8	494.1	856.7	584.0	911.2	407.5	375.4
87.5°	99.5	112.3	99.5	73.8	54.5	54.5	86.6	32.1	22.5	16.0	16.0
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)