

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: P458372

Luminaire Tested: **GALN-SA9D-740-U-AFL**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P458372  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-24)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA9D-740-U-AFL  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 70817 lumens  
Efficiency: N/A  
Efficacy: 128.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B4 - U0 - G4

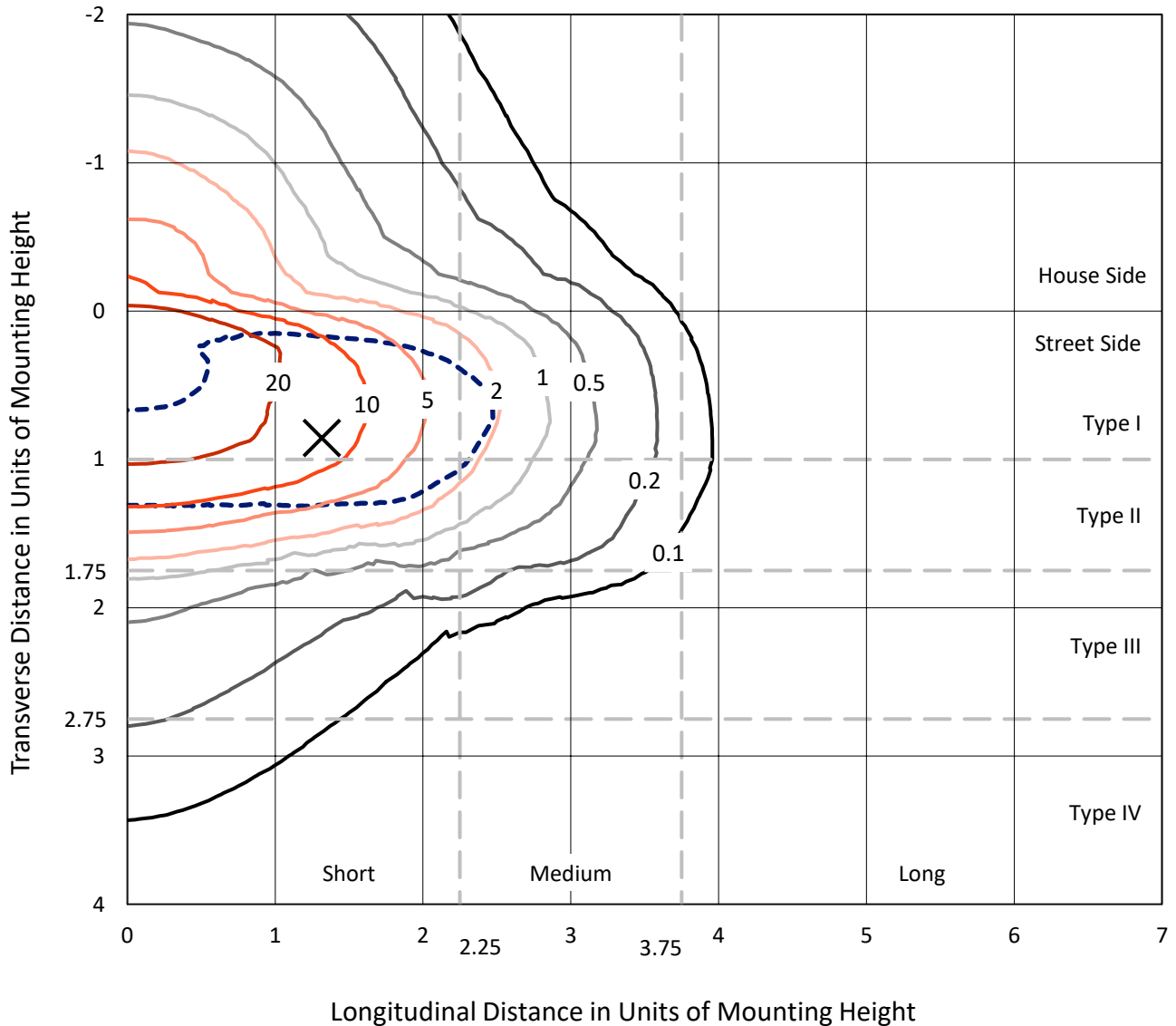
Input Watts (W): 552  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

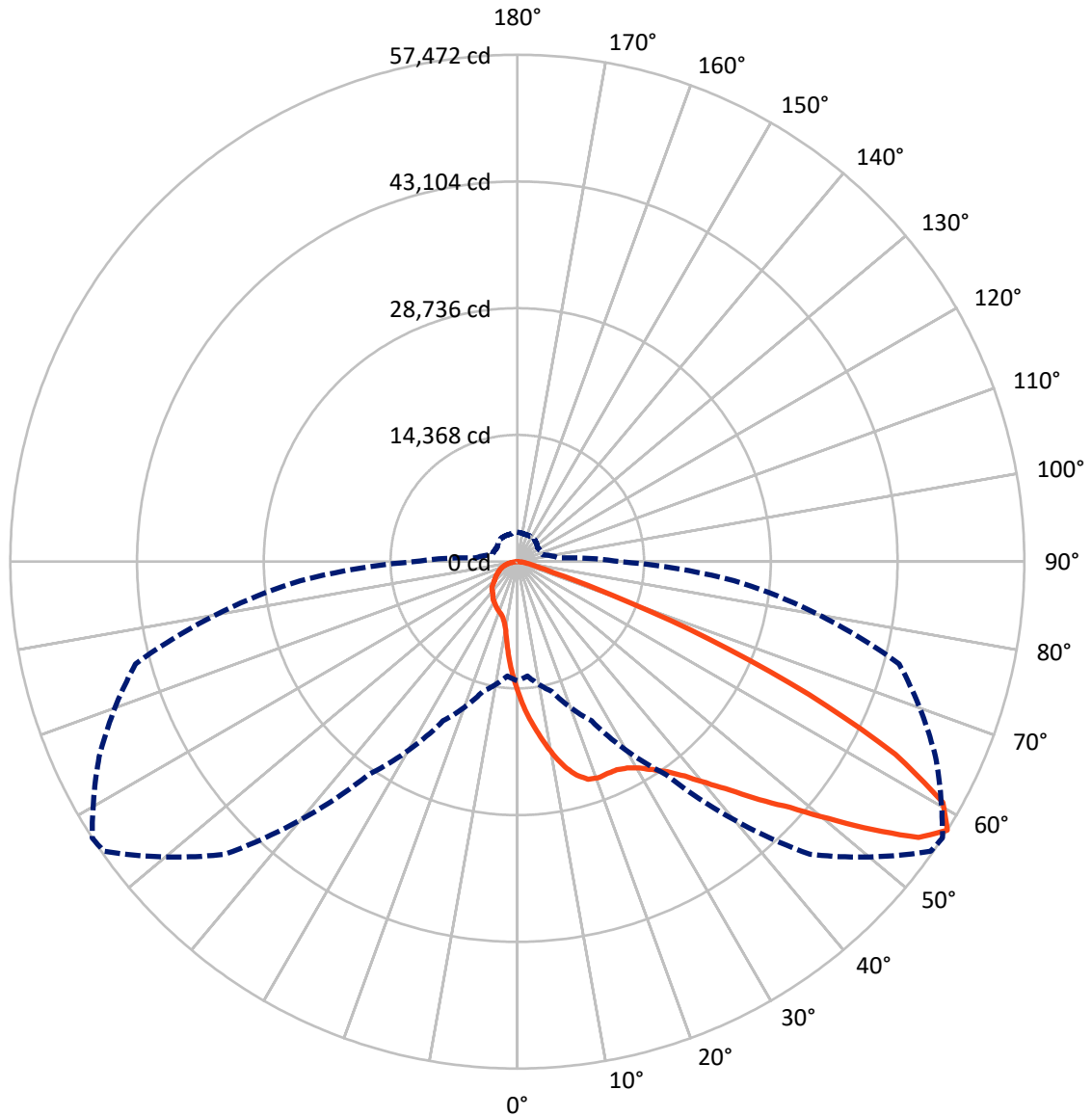
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 36.2 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	10769.3	0.0	10769.3
	% Fixture	15.2	0.0	15.2
<b>Street Side</b>	Lumens	60047.7	0.0	60047.7
	% Fixture	84.8	0.0	84.8
<b>Total</b>	Lumens	70817.0	0.0	70817.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1429.9	2.0
10°-20°	4214.0	6.0
20°-30°	6997.4	9.9
30°-40°	10540.2	14.9
40°-50°	15825.1	22.3
50°-60°	17737.9	25.0
60°-70°	10381.1	14.7
70°-80°	3070.7	4.3
80°-90°	620.7	0.9
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°	70817.0	100.0
0°-180°	70817.0	100.0

**Coefficient of Utilization**



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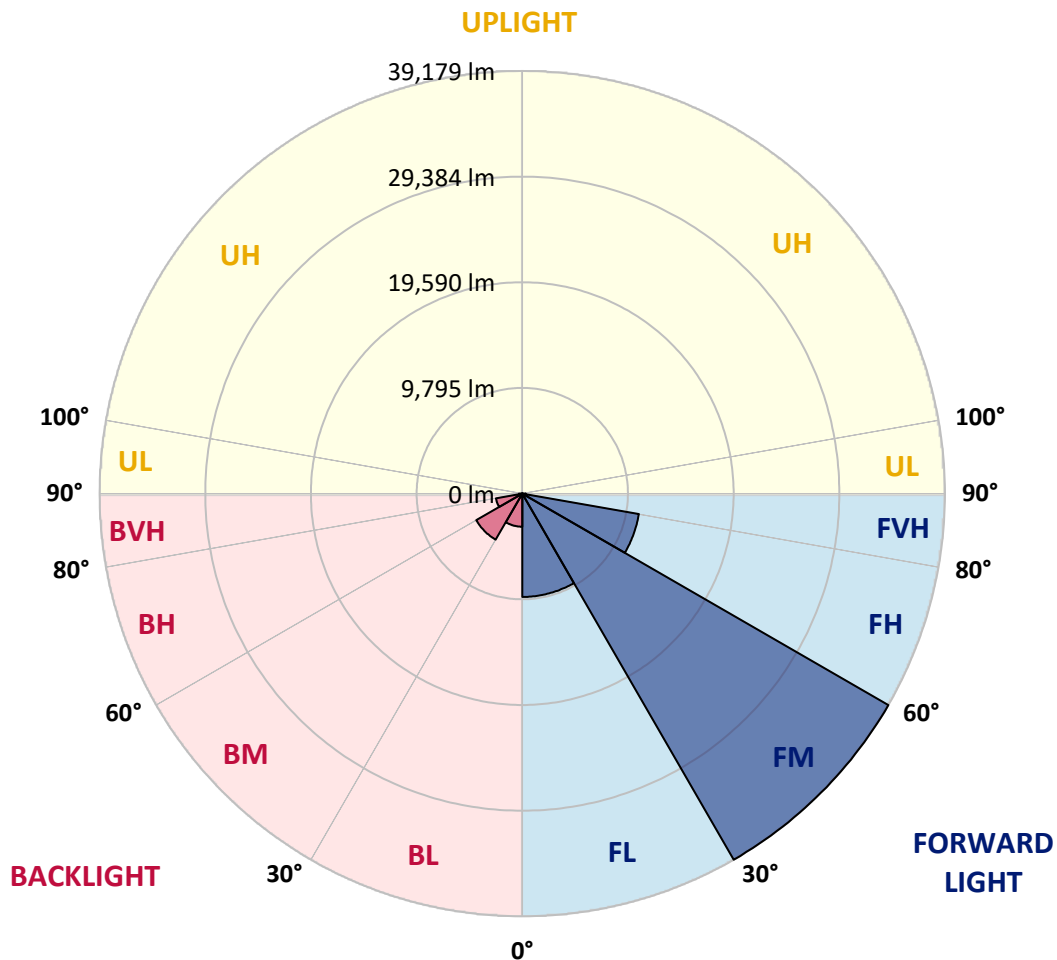
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	9572.8	13.5			
FM	(30°-60°)	39179.1	55.3			
FH	(60°-80°)	10973.8	15.5			G4/12000
FVH	(80°-90°)	322.0	0.5			G3/500
BL	(0°-30°)	3068.5	4.3	B4/5000		
BM	(30°-60°)	4924.2	7.0	B3/5000		
BH	(60°-80°)	2478.0	3.5	B3/2500		G3/2500
BVH	(80°-90°)	298.6	0.4			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G4**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	14877.8	14877.8	14877.8	14877.8	14877.8	14877.8	14877.8	14877.8	14877.8	14877.8	14877.8
2.5°	18486.8	18285.2	18126.3	17986.8	17804.6	17312.3	16819.9	16812.2	16420.7	15815.9	15195.7
5°	21498.8	21227.5	21262.4	20828.2	20394.0	19680.8	18638.0	18583.7	17750.3	16618.4	15467.1
7.5°	23460.3	23464.2	23355.7	23107.6	22638.5	21828.3	20646.0	20378.5	19219.5	17502.2	15777.2
10°	23359.5	23464.2	23646.4	23859.6	24003.0	23603.7	22526.1	22200.5	20692.5	18572.1	16122.2
12.5°	22018.3	22181.1	22440.8	22975.8	23840.2	24499.2	24130.9	23867.3	22398.2	19638.1	16502.1
15°	21181.0	21277.9	21421.3	21781.8	22712.2	24289.9	25243.5	25103.9	24006.9	20843.7	16928.5
17.5°	20925.1	21022.0	21068.5	21289.5	21952.4	23568.9	25681.5	25929.6	25433.4	21952.4	17358.8
20°	21181.0	21227.5	21227.5	21359.3	21878.7	23146.3	25662.1	26162.2	26604.1	23282.0	17761.9
22.5°	21851.6	21871.0	21843.8	21890.4	22278.0	23262.6	25480.0	26100.2	27550.0	24410.0	18075.9
25°	22940.9	22971.9	22793.6	22685.0	22968.0	23774.3	25580.7	26150.6	28290.4	25487.7	18285.2
27.5°	24177.5	24216.2	23999.1	23747.2	23879.0	24406.2	25976.1	26487.8	28844.7	26549.9	18417.0
30°	25693.2	25708.7	25344.3	25041.9	24956.6	25348.2	26650.6	27127.4	29534.7	27801.9	18614.7
32.5°	27243.7	27360.0	26891.0	26464.6	26321.1	26441.3	27646.9	28108.2	30356.5	29147.1	18932.6
35°	29352.5	29371.9	28809.8	28290.4	27817.5	27972.5	28922.2	29255.6	31492.3	30701.5	19382.3
37.5°	31984.6	32163.0	31387.7	30418.6	29837.1	29612.3	30465.1	30829.5	33085.6	32608.8	20060.7
40°	34907.5	34973.4	34310.5	33705.8	32643.6	31992.4	32581.6	32977.0	35050.9	34884.2	20847.6
42.5°	36744.9	36888.4	36938.8	36876.7	36078.2	34985.0	35209.9	35395.9	37376.8	37020.2	21653.9
45°	37365.2	37578.4	38299.4	39826.7	39912.0	38834.3	38311.0	38489.3	39912.0	39175.5	22425.3
47.5°	36337.9	36702.3	38031.9	41164.1	43509.4	43590.8	42013.0	41621.5	42222.4	40962.5	22983.5
50°	33682.5	33760.1	35795.2	40330.7	45195.6	48137.8	46505.9	45777.1	44416.4	42284.4	23367.3
52.5°	29573.5	29662.6	31368.3	36458.1	44156.7	51316.5	51762.3	50459.8	46645.4	43311.7	23619.3
55°	21952.4	22467.9	24344.1	29263.4	39233.6	51018.0	55941.1	55200.7	49339.5	44125.7	24014.6
57.5°	13497.8	13024.9	15250.0	19909.5	29507.6	46916.8	57232.0	57472.3	52305.0	44808.0	24677.5
60°	6210.1	6303.1	7221.8	10268.7	17986.8	36702.3	53906.0	55425.6	53944.8	44784.7	24844.2
62.5°	4279.6	4194.3	3961.7	4508.3	8202.6	23212.2	45532.9	48106.8	50657.5	43393.1	24181.3
65°	3826.1	3740.8	3291.1	3139.9	3767.9	10117.6	33101.1	36349.5	42652.7	39881.0	22530.0
67.5°	3574.1	3457.8	2992.6	2698.0	2690.3	4027.6	19518.0	23429.3	31635.8	33717.4	19521.8
70°	3310.5	3217.5	2756.2	2430.5	2291.0	2531.3	8578.6	11230.1	20541.3	24297.6	15207.3
72.5°	3046.9	2938.4	2523.6	2174.7	1992.5	1895.6	3287.2	4275.7	11606.1	14567.7	9322.9
75°	2663.1	2608.9	2256.1	1969.2	1771.5	1531.2	2085.5	2380.1	5551.1	6690.8	4678.9
77.5°	2329.8	2271.6	2004.1	1721.1	1577.7	1244.3	1480.8	1616.5	2341.4	2713.5	2112.7
80°	1705.6	1763.8	1690.1	1519.6	1407.2	976.9	996.2	1108.7	1391.6	1539.0	1290.9
82.5°	1081.5	1190.1	1302.5	1170.7	1066.0	771.4	690.0	732.7	949.7	1007.9	573.7
85°	453.5	461.3	755.9	713.3	608.6	457.4	414.8	438.0	507.8	531.1	267.5
87.5°	174.4	170.6	267.5	248.1	189.9	131.8	131.8	147.3	201.6	186.1	85.3
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°	14877.8	14877.8	14877.8	14877.8	14877.8	14877.8	14877.8	14877.8	14877.8	14877.8	14877.8
2.5°	14928.2	14653.0	14106.4	13428.0	12931.9	12373.7	11881.3	11528.6	11396.8	11334.8	11218.5
5°	14916.6	14373.9	13242.0	12055.8	11102.2	10125.3	9299.6	8764.7	8718.2	8361.5	8326.6
7.5°	14920.5	14090.9	12288.4	10544.0	9090.3	8090.2	7407.9	7229.6	7016.4	6962.1	6989.3
10°	14932.1	13730.4	11265.0	9047.7	7640.5	6985.4	6729.5	6659.8	6667.5	6690.8	6694.6
12.5°	14947.6	13381.5	10202.8	7911.8	6826.4	6555.1	6528.0	6590.0	6655.9	6706.3	6717.9
15°	14967.0	12982.3	9167.8	6997.0	6419.4	6396.2	6485.3	6590.0	6683.0	6756.7	6768.3
17.5°	14943.7	12517.1	8299.5	6434.9	6194.6	6307.0	6454.3	6586.1	6671.4	6741.2	6748.9
20°	14889.5	11997.6	7462.2	6039.5	6055.0	6237.2	6396.2	6520.2	6613.2	6648.1	6675.3
22.5°	14680.1	11377.4	6733.4	5733.3	5888.3	6140.3	6330.3	6403.9	6299.2	6225.6	6245.0
25°	14323.5	10571.1	6055.0	5485.2	5737.2	6004.6	6198.5	6020.1	5934.9	5903.8	5919.3
27.5°	13877.7	9687.3	5543.3	5225.5	5543.3	5853.4	5799.2	5768.2	5729.4	5679.0	5690.6
30°	13397.0	8822.8	5109.2	5023.9	5334.0	5512.3	5535.6	5586.0	5543.3	5465.8	5496.8
32.5°	12951.2	8008.8	4779.7	4853.3	5186.7	5159.6	5334.0	5392.2	5194.5	4934.7	4946.4
35°	12571.3	7252.9	4531.6	4686.6	4934.7	4946.4	5120.8	4919.2	4706.0	4582.0	4589.7
37.5°	12284.5	6663.6	4368.8	4543.2	4613.0	4760.3	4667.3	4562.6	4535.5	4450.2	4454.0
40°	12113.9	6148.1	4264.1	4430.8	4419.2	4519.9	4221.5	4326.1	4364.9	4337.8	4341.6
42.5°	11943.4	5783.7	4155.6	4275.7	4271.9	4074.2	4008.3	4097.4	4198.2	4209.8	4202.1
45°	11807.7	5500.7	4043.1	4039.3	4116.8	3806.7	3787.3	3841.6	3985.0	4054.8	4050.9
47.5°	11656.5	5264.2	3872.6	3764.0	3787.3	3640.0	3609.0	3632.2	3806.7	3919.1	3950.1
50°	11466.6	5027.8	3659.4	3512.1	3415.2	3484.9	3492.7	3496.6	3671.0	3798.9	3826.1
52.5°	11315.4	4849.4	3415.2	3306.6	3190.3	3345.4	3403.5	3411.3	3515.9	3620.6	3640.0
55°	11404.5	4748.7	3174.8	3097.3	2992.6	3202.0	3314.4	3329.9	3353.1	3430.7	3442.3
57.5°	11672.0	4771.9	2981.0	2880.2	2802.7	3031.4	3221.3	3233.0	3217.5	3310.5	3326.0
60°	11753.4	4760.3	2837.6	2639.9	2593.3	2849.2	3085.7	3108.9	3105.0	3240.7	3267.9
62.5°	11412.3	4613.0	2694.1	2438.3	2407.3	2663.1	2895.7	2988.7	3008.1	3202.0	3236.8
65°	10609.9	4310.6	2504.2	2225.1	2225.1	2465.4	2713.5	2841.4	2895.7	3155.4	3194.2
67.5°	9551.6	3954.0	2310.4	2042.9	2035.1	2275.5	2519.7	2651.5	2736.8	3089.5	3112.8
70°	7927.4	3473.3	2070.0	1845.2	1845.2	2062.3	2283.2	2442.2	2566.2	2965.5	2965.5
72.5°	5430.9	2888.0	1779.3	1620.4	1624.2	1825.8	2050.6	2229.0	2376.3	2717.4	2725.1
75°	3434.5	2256.1	1461.4	1380.0	1395.5	1585.5	1818.1	2004.1	2298.7	2686.4	2698.0
77.5°	1825.8	1585.5	1162.9	1143.6	1162.9	1337.4	1597.1	1852.9	2306.5	2329.8	2291.0
80°	1182.3	1124.2	918.7	880.0	887.7	1077.7	1422.7	1759.9	1852.9	1876.2	1790.9
82.5°	643.5	713.3	651.2	612.5	612.5	841.2	1213.3	1399.4	1329.6	1104.8	1054.4
85°	275.2	333.4	337.3	294.6	283.0	519.4	814.1	763.7	709.4	678.4	670.6
87.5°	77.5	108.5	108.5	81.4	62.0	143.4	162.8	46.5	0.0	3.9	7.8
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)