

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: P533803

Luminaire Tested: **GALN-SA9B-730-U-T2-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P533803  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-13)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA9B-730-U-T2-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 27713 lumens  
Efficiency: N/A  
Efficacy: 76.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2

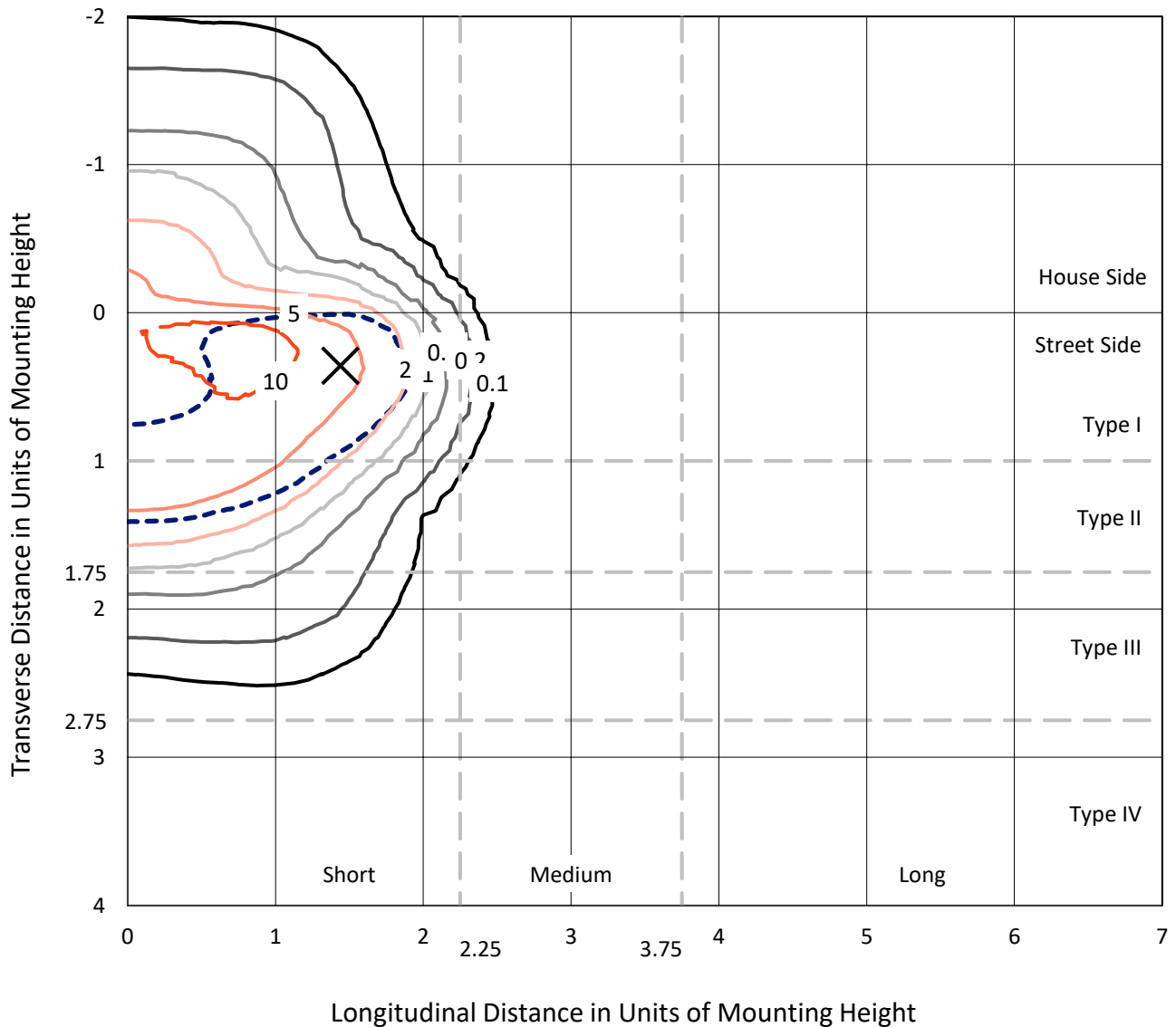
Input Watts (W): 364  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

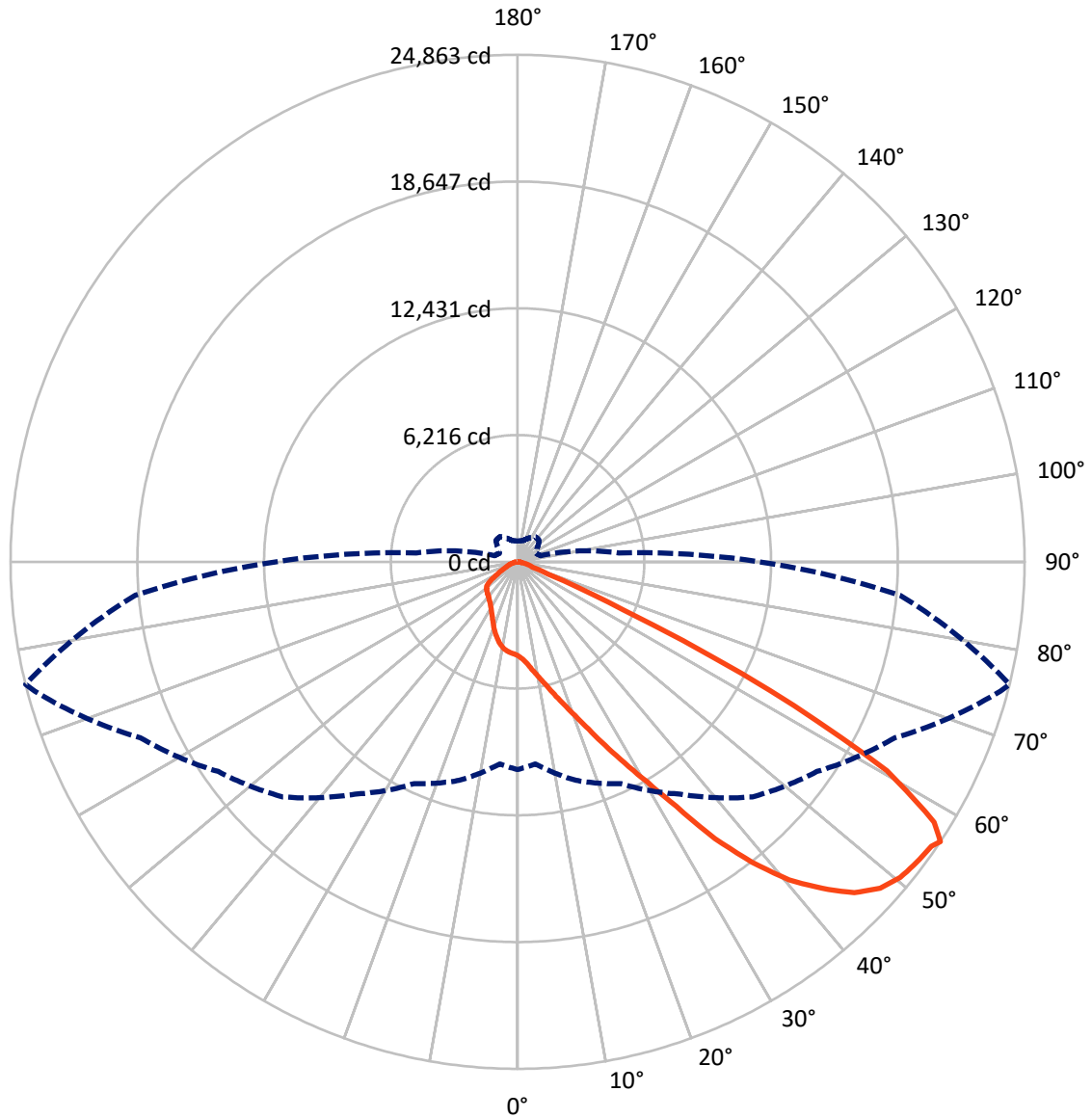
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.6 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral      - - - Horizontal Cone Through 56-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4353.6	0.0	4353.6
	% Fixture	15.7	0.0	15.7
<b>Street Side</b>	Lumens	23359.4	0.0	23359.4
	% Fixture	84.3	0.0	84.3
<b>Total</b>	Lumens	27713.0	0.0	27713.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	464.7	1.7
10°-20°	1492.9	5.4
20°-30°	2706.9	9.8
30°-40°	4668.3	16.8
40°-50°	7583.7	27.4
50°-60°	7993.5	28.8
60°-70°	2442.4	8.8
70°-80°	313.1	1.1
80°-90°	47.6	0.2
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°	27713.0	100.0
0°-180°	27713.0	100.0

**Coefficient of Utilization**



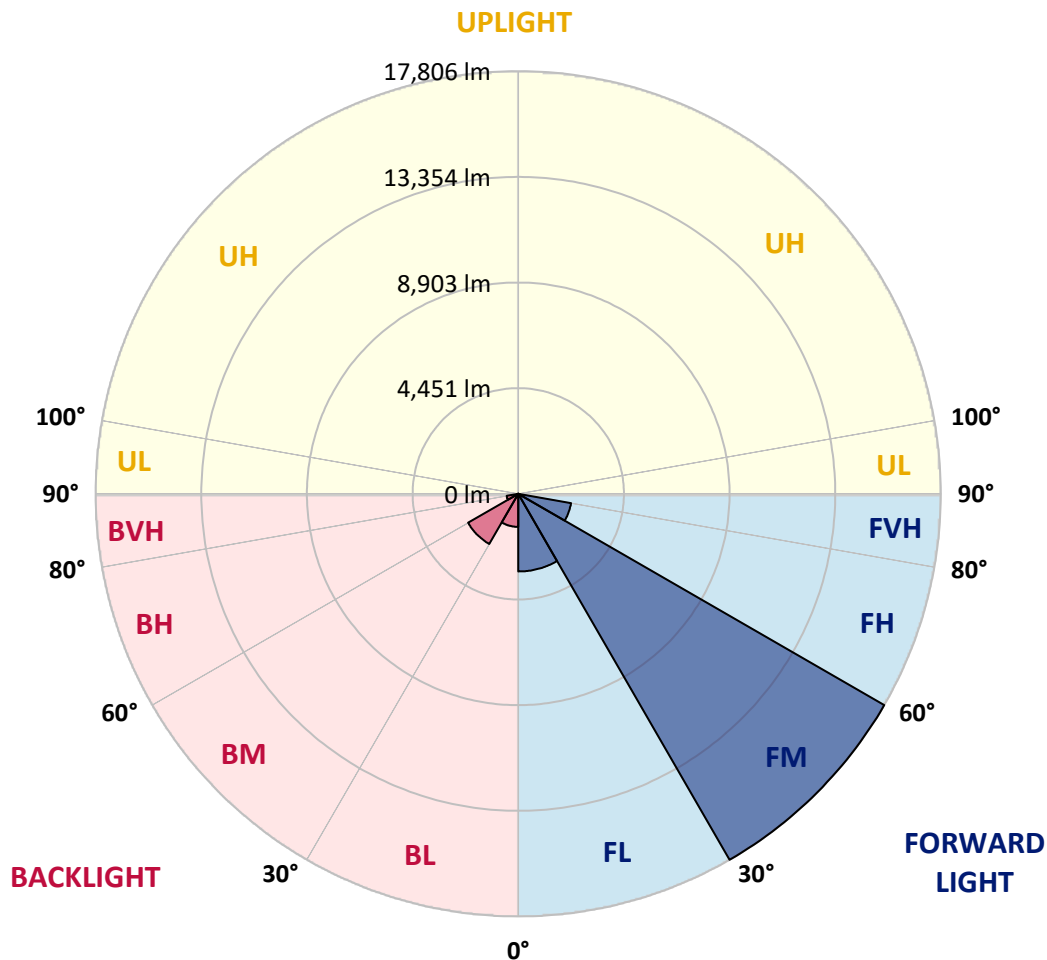
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3271.8	11.8			
FM (30°-60°)	17805.6	64.2			
FH (60°-80°)	2258.8	8.2			G2/5000
FVH (80°-90°)	23.3	0.1			G1/100
BL (0°-30°)	1392.7	5.0	B3/2500		
BM (30°-60°)	2439.9	8.8	B2/2500		
BH (60°-80°)	496.7	1.8	B1/500		G1/500
BVH (80°-90°)	24.3	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	4612.9	4612.9	4612.9	4612.9	4612.9	4612.9	4612.9	4612.9	4612.9	4612.9	4612.9
2.5°	5312.7	5190.1	5195.2	5185.0	5169.7	5113.5	4944.9	4919.4	4807.0	4776.3	4674.2
5°	5951.3	5844.0	5905.3	5813.3	5726.5	5675.4	5399.6	5271.9	5093.1	5026.6	4883.6
7.5°	6349.7	6298.6	6278.2	6283.3	6201.6	6073.9	5951.3	5670.3	5430.2	5379.1	5077.7
10°	6543.8	6513.2	6543.8	6528.5	6564.3	6579.6	6365.0	6196.5	5844.0	5757.1	5287.2
12.5°	6589.8	6651.1	6676.7	6743.1	6829.9	6978.1	6962.7	6732.8	6262.9	6206.7	5609.0
15°	6702.2	6753.3	6727.7	6835.0	6998.5	7248.8	7381.6	7345.9	6840.1	6738.0	5981.9
17.5°	6804.4	6712.4	6799.3	7013.8	7177.3	7560.4	7882.2	8030.4	7468.5	7351.0	6324.2
20°	6942.3	6916.8	6901.4	7008.7	7299.9	7810.7	8449.3	8720.0	8173.4	8050.8	6814.6
22.5°	7361.2	7366.3	7356.1	7197.7	7407.2	7984.4	8944.8	9614.0	9016.3	8914.1	7371.4
25°	7912.9	7846.5	7795.4	7667.7	7642.1	8142.8	9445.4	10707.2	10027.8	9956.2	7974.2
27.5°	8495.2	8495.2	8342.0	8224.5	8061.0	8536.1	9905.2	11769.7	11248.7	11151.6	8500.4
30°	9128.7	9164.4	9144.0	8893.7	8791.5	8965.2	10375.1	13128.5	12648.4	12525.8	9368.8
32.5°	10063.5	9986.9	10073.7	9864.3	9562.9	9716.1	11115.8	14344.3	14466.9	14293.3	10507.9
35°	11299.7	11253.8	11197.6	10855.3	10497.7	10620.3	12163.1	15841.1	16750.4	16663.5	11657.3
37.5°	12408.3	12382.7	12336.7	12101.8	11688.0	11836.1	13353.3	17399.2	18977.6	18691.6	13281.8
40°	13573.0	13710.9	13562.8	13353.3	12975.3	13302.2	14753.0	18323.8	20852.4	20505.1	14523.1
42.5°	15151.5	15044.2	15110.6	14727.5	14523.1	14880.7	16157.8	19248.4	22308.3	21894.5	15841.1
45°	16832.1	16837.2	16658.4	16535.8	16004.6	16392.8	17021.1	19759.2	23467.9	23146.1	16837.2
47.5°	17910.0	17904.9	18099.0	18293.1	17746.5	17363.4	17608.6	20244.5	24065.6	23917.5	17199.9
50°	17741.4	17792.5	18042.8	18768.2	19054.3	18538.3	18160.3	20101.5	24336.3	24321.0	17511.5
52.5°	15432.4	15601.0	16019.9	17067.1	18507.7	19146.2	18737.6	20367.1	24469.2	24494.7	17976.4
55°	11749.3	11841.2	12638.1	13910.1	15503.9	17690.3	18507.7	20576.6	24571.3	24617.3	18538.3
56°	10191.2	9946.0	11095.4	11999.6	13905.0	16295.7	17925.3	20413.1	24510.0	24862.5	18819.3
57.5°	7693.2	7529.8	8459.5	9588.4	11422.3	13945.9	16117.0	19641.7	24096.2	24091.1	18415.7
60°	4679.3	4515.8	5231.0	5895.1	6921.9	8587.2	10891.1	15641.9	20372.2	20801.3	14911.4
62.5°	2784.1	2886.2	3591.2	3994.8	4326.8	4500.5	5634.5	9297.3	13593.4	13899.9	9251.3
65°	1854.3	1890.1	2421.4	3085.5	3233.6	2574.6	2293.7	3764.9	5895.1	5706.1	3816.0
67.5°	1144.3	1226.0	1624.5	2319.2	2569.5	1879.9	1088.1	1404.8	1624.5	1624.5	1103.4
70°	694.7	735.6	1083.0	1578.5	1762.4	1210.7	791.8	791.8	781.6	766.3	659.0
72.5°	332.0	357.6	551.7	812.2	827.6	638.5	613.0	669.2	653.9	648.8	546.6
75°	143.0	153.3	194.1	255.4	291.2	270.7	372.9	480.2	495.5	480.2	393.3
77.5°	46.0	51.1	71.5	92.0	97.1	117.5	158.4	199.2	229.9	214.6	194.1
80°	5.1	10.2	20.4	46.0	71.5	92.0	117.5	132.8	148.1	148.1	137.9
82.5°	5.1	5.1	20.4	40.9	66.4	86.8	112.4	127.7	148.1	153.3	143.0
85°	0.0	5.1	15.3	35.8	56.2	56.2	51.1	51.1	35.8	35.8	35.8
87.5°	0.0	0.0	5.1	5.1	5.1	10.2	10.2	10.2	10.2	10.2	10.2
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°	4612.9	4612.9	4612.9	4612.9	4612.9	4612.9	4612.9	4612.9	4612.9	4612.9	4612.9
2.5°	4653.7	4643.5	4505.6	4418.8	4372.8	4280.8	4224.6	4183.8	4153.1	4117.4	4122.5
5°	4715.0	4679.3	4449.4	4291.0	4102.0	3999.9	3913.0	3841.5	3795.5	3785.3	3764.9
7.5°	4888.7	4699.7	4352.3	4066.3	3826.2	3724.0	3647.4	3601.4	3621.8	3575.9	3611.6
10°	5021.5	4740.6	4234.9	3821.1	3581.0	3504.4	3463.5	3499.2	3550.3	3529.9	3504.4
12.5°	5185.0	4781.4	4045.8	3586.1	3361.3	3305.1	3376.6	3443.1	3545.2	3586.1	3535.0
15°	5368.9	4827.4	3805.7	3315.3	3172.3	3218.3	3340.9	3458.4	3560.5	3611.6	3642.3
17.5°	5593.7	4812.1	3570.8	3100.8	2993.5	3126.3	3274.5	3381.8	3535.0	3611.6	3591.2
20°	5803.1	4761.0	3310.2	2886.2	2891.3	3013.9	3136.5	3310.2	3392.0	3494.1	3458.4
22.5°	6002.4	4669.1	3039.5	2738.1	2738.1	2927.1	2988.4	3100.8	3172.3	3223.4	3218.3
25°	6283.3	4495.4	2814.7	2595.1	2656.4	2779.0	2830.0	2865.8	2835.2	2876.0	2881.1
27.5°	6482.5	4316.6	2630.8	2467.3	2579.7	2671.7	2656.4	2635.9	2564.4	2508.2	2544.0
30°	6697.1	4107.1	2472.5	2380.5	2441.8	2523.5	2462.2	2400.9	2288.6	2196.6	2201.7
32.5°	7003.6	4010.1	2334.5	2278.3	2360.1	2370.3	2303.9	2211.9	2099.5	2012.7	2007.6
35°	7575.7	3948.8	2217.0	2211.9	2227.3	2232.4	2166.0	2053.6	2007.6	1936.1	1961.6
37.5°	8147.9	3918.1	2135.3	2114.9	2109.8	2114.9	2038.2	1931.0	2017.8	2012.7	2022.9
40°	8878.4	4056.1	2017.8	1992.3	1997.4	1997.4	1900.3	1869.7	2022.9	2038.2	2043.4
42.5°	9619.1	4229.7	1941.2	1859.5	1879.9	1879.9	1828.8	1793.0	1900.3	1798.2	1782.8
45°	10262.7	4485.2	1859.5	1726.6	1777.7	1803.3	1787.9	1726.6	1660.2	1486.5	1486.5
47.5°	10472.2	4709.9	1762.4	1598.9	1639.8	1752.2	1706.2	1578.5	1461.0	1318.0	1307.7
50°	10840.0	4955.1	1685.8	1450.8	1537.6	1675.5	1629.6	1501.9	1369.0	1266.9	1272.0
52.5°	11218.0	5236.1	1542.7	1277.1	1384.4	1614.2	1614.2	1471.2	1266.9	1195.4	1185.1
55°	11785.0	5225.9	1287.3	1047.2	1236.2	1522.3	1547.8	1318.0	1134.1	1077.9	1077.9
56°	11866.8	4990.9	1159.6	980.8	1169.8	1496.8	1501.9	1277.1	1083.0	1021.7	1021.7
57.5°	11253.8	4505.6	1016.6	899.1	1088.1	1450.8	1455.9	1241.3	1042.1	955.3	945.1
60°	8658.7	3049.7	848.0	802.0	985.9	1307.7	1333.3	1129.0	914.4	848.0	842.9
62.5°	4888.7	1690.9	745.8	725.4	848.0	1113.6	1190.3	985.9	776.5	740.7	750.9
65°	2232.4	929.7	628.3	587.5	684.5	858.2	960.4	812.2	638.5	597.7	597.7
67.5°	817.3	633.4	536.4	464.9	480.2	556.8	623.2	526.2	424.0	362.7	378.0
70°	582.4	531.3	470.0	403.6	372.9	362.7	357.6	296.3	209.4	163.5	173.7
72.5°	470.0	439.3	393.3	342.3	291.2	245.2	209.4	153.3	97.1	66.4	61.3
75°	337.2	321.8	286.1	245.2	204.3	173.7	143.0	97.1	51.1	25.5	25.5
77.5°	173.7	173.7	168.6	153.3	127.7	102.2	81.7	56.2	30.7	10.2	10.2
80°	132.8	143.0	148.1	132.8	117.5	92.0	66.4	40.9	20.4	5.1	5.1
82.5°	127.7	148.1	158.4	137.9	117.5	86.8	66.4	40.9	20.4	5.1	5.1
85°	30.7	30.7	46.0	51.1	66.4	71.5	56.2	35.8	15.3	5.1	5.1
87.5°	10.2	10.2	10.2	10.2	10.2	10.2	5.1	5.1	5.1	5.1	0.0
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)