

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: P533808

Luminaire Tested: **GALN-SA9B-730-U-T3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533808
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-16)
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-T3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 40054 lumens
Efficiency: N/A
Efficacy: 110.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G3

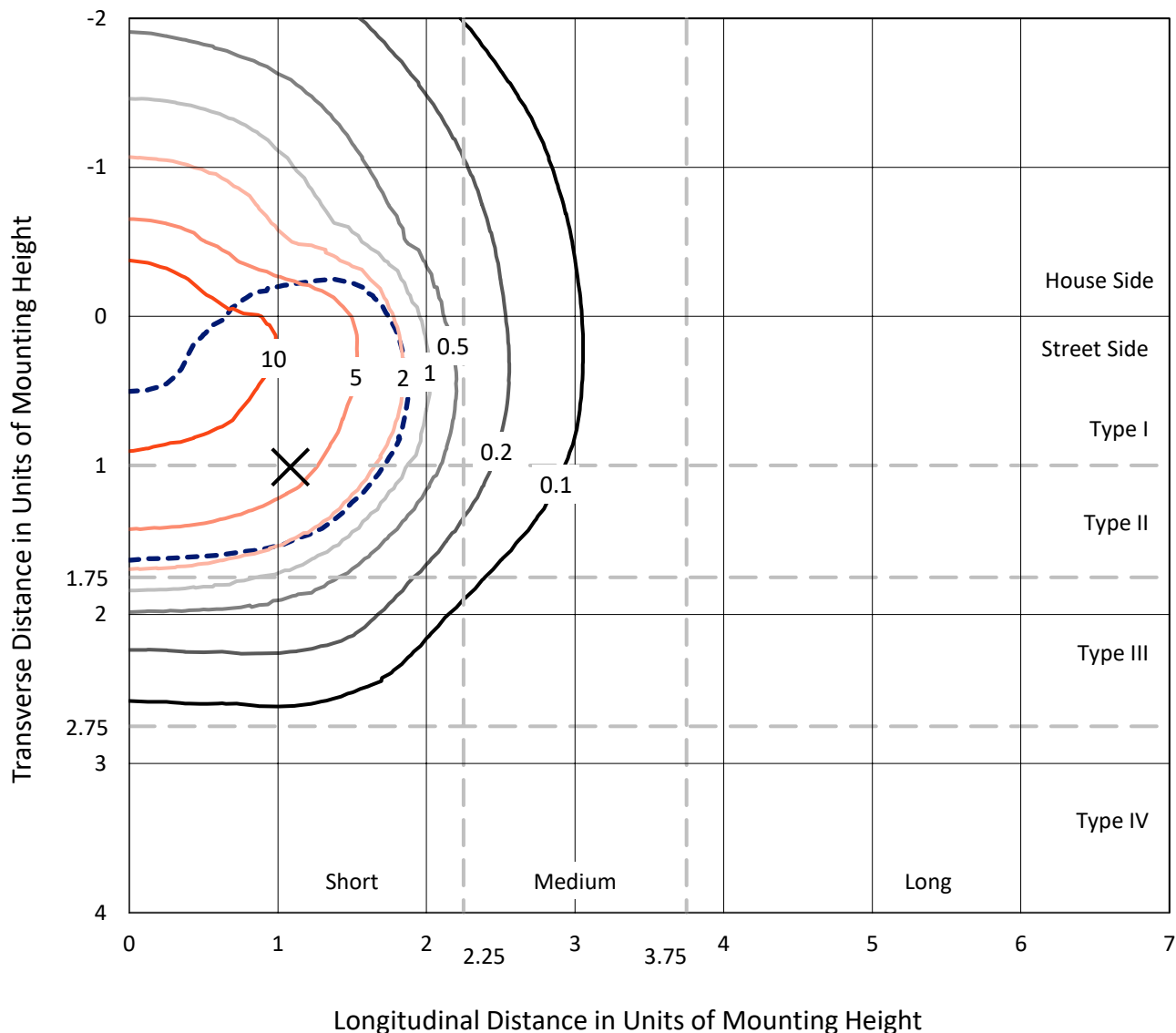
Input Watts (W): 364
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

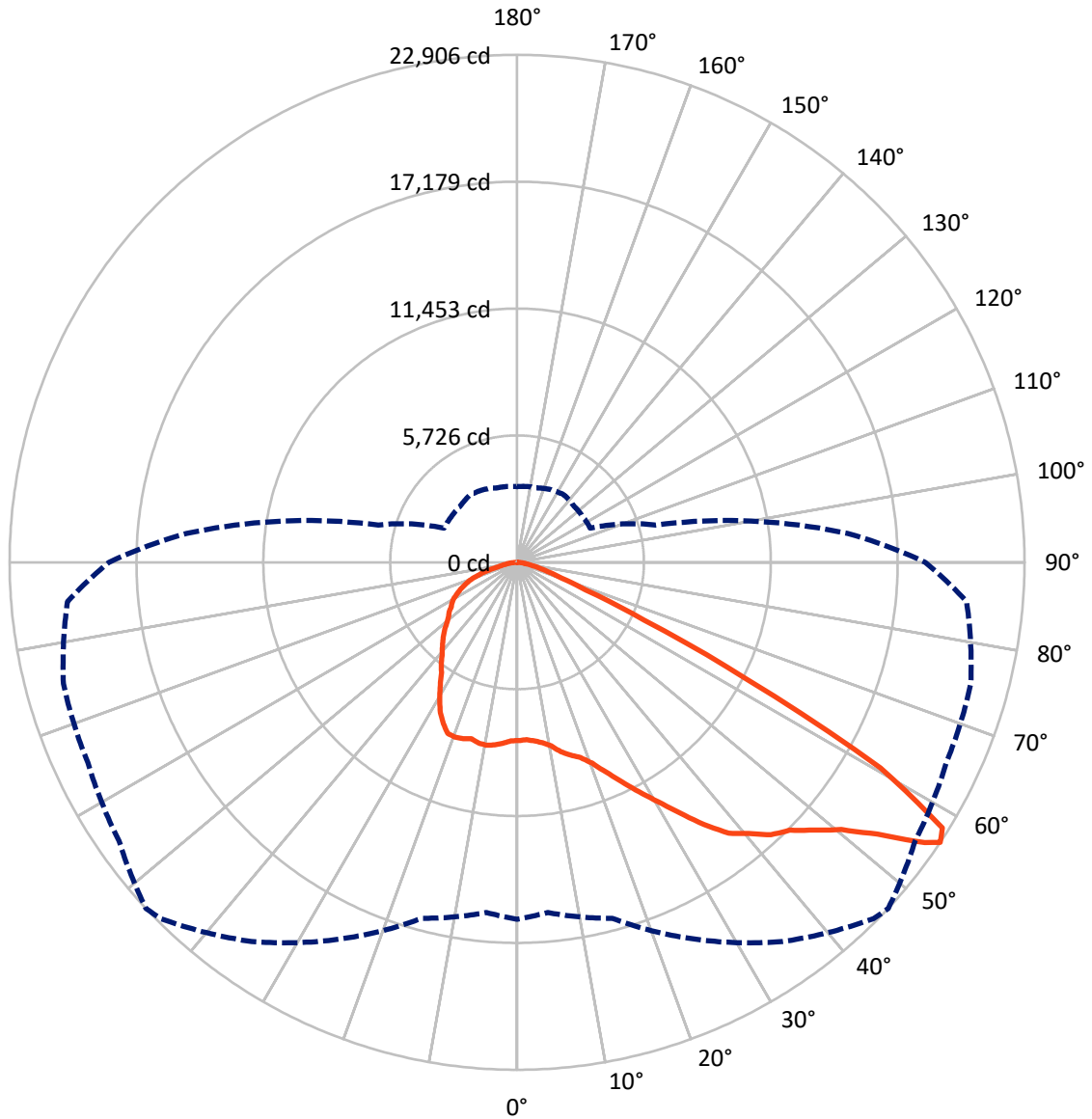
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12692.6	0.0	12692.6
	% Fixture	31.7	0.0	31.7
Street Side	Lumens	27361.4	0.0	27361.4
	% Fixture	68.3	0.0	68.3
Total	Lumens	40054.0	0.0	40054.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	783.9	2.0
10°-20°	2472.9	6.2
20°-30°	4371.5	10.9
30°-40°	6565.9	16.4
40°-50°	9011.1	22.5
50°-60°	10735.5	26.8
60°-70°	4594.1	11.5
70°-80°	1300.1	3.2
80°-90°	218.8	0.5
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°	40054.0	100.0
0°-180°	40054.0	100.0

Coefficient of Utilization

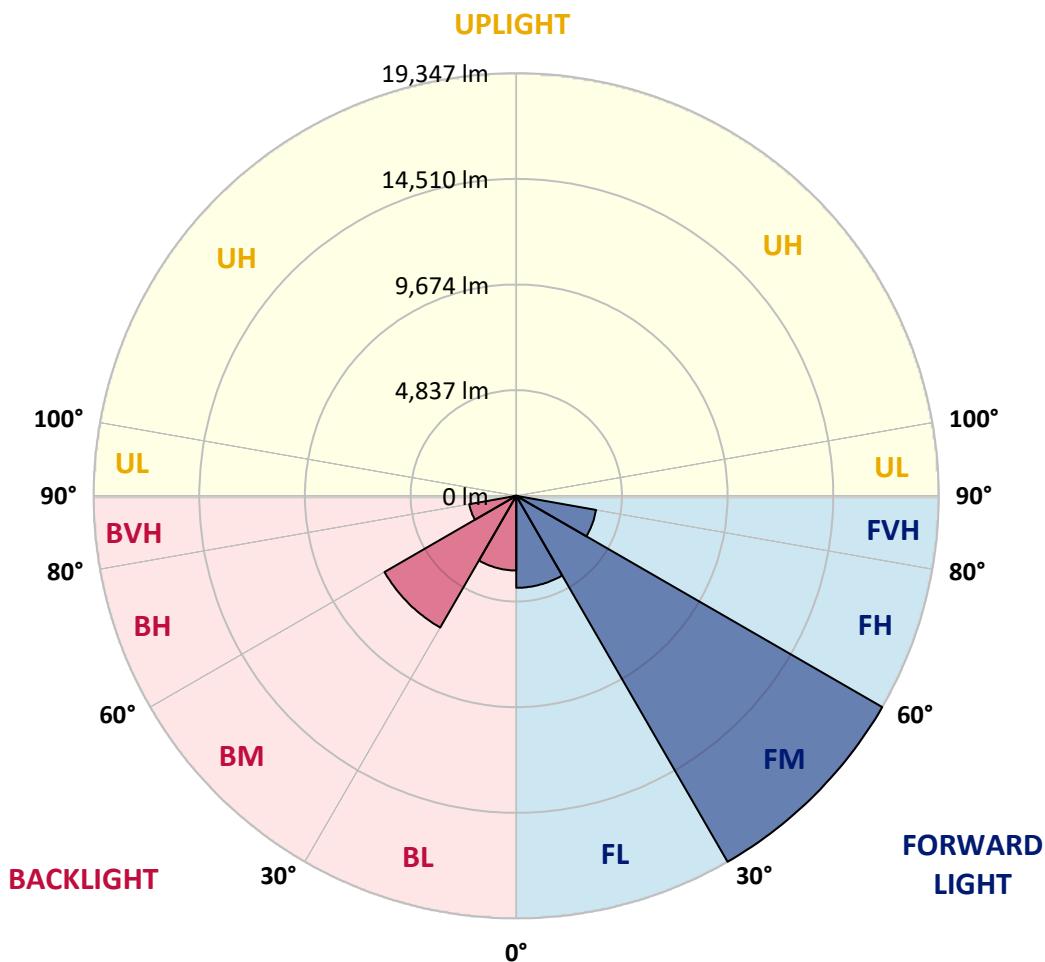


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4211.0	10.5			
FM (30°-60°)	19347.0	48.3			
FH (60°-80°)	3710.5	9.3			G2/5000
FVH (80°-90°)	92.9	0.2			G1/100
BL (0°-30°)	3417.4	8.5	B4/5000		
BM (30°-60°)	6965.5	17.4	B4/8500		
BH (60°-80°)	2183.8	5.5	B3/2500		G3/2500
BVH (80°-90°)	125.9	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G3
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	8045.6	8045.6	8045.6	8045.6	8045.6	8045.6	8045.6	8045.6	8045.6	8045.6	8045.6
2.5°	8015.0	7999.7	7989.4	8071.2	8040.5	8045.6	8015.0	8045.6	8066.1	8020.1	8086.5
5°	7999.7	8045.6	8004.8	8030.3	8096.7	8076.3	8096.7	8158.0	8142.7	8127.4	8106.9
7.5°	8142.7	8147.8	8178.4	8188.7	8209.1	8188.7	8219.3	8275.5	8260.2	8173.3	8183.6
10°	8347.0	8357.2	8362.3	8418.5	8454.3	8459.4	8423.6	8372.6	8367.5	8484.9	8403.2
12.5°	8582.0	8556.5	8617.8	8638.2	8679.1	8725.0	8771.0	8663.7	8730.1	8735.3	8638.2
15°	8924.3	8949.8	8878.3	8878.3	8893.6	8898.7	9026.4	8975.3	8965.1	8908.9	8949.8
17.5°	9435.1	9261.4	9256.3	9184.8	9174.6	9215.4	9261.4	9302.3	9440.2	9327.8	9108.2
20°	9808.0	9848.9	9700.7	9613.9	9629.2	9721.2	9675.2	9859.1	9956.1	9772.2	9557.7
22.5°	10467.0	10329.1	10364.8	10170.7	10186.0	10283.1	10278.0	10467.0	10523.2	10232.0	9920.4
25°	10911.4	10875.7	10906.3	10753.1	10773.5	10850.1	10972.7	11284.3	11192.4	10870.5	10150.3
27.5°	11560.2	11488.7	11463.1	11406.9	11386.5	11590.8	11733.9	12065.9	11999.5	11529.5	10558.9
30°	12224.3	12178.3	12203.8	11973.9	12055.7	12489.9	12530.8	12985.4	12954.7	12127.2	11013.6
32.5°	12684.0	12709.5	12755.5	12627.8	12990.5	13337.9	13475.8	13991.7	14017.3	13154.0	11892.2
35°	13424.7	13337.9	13363.4	13511.6	13680.1	14313.6	14538.3	14880.6	15095.1	14231.8	12735.1
37.5°	13889.6	13981.5	13874.2	14109.2	14548.5	15309.7	15514.0	15866.5	16091.3	15294.4	13884.5
40°	14615.0	14466.8	14543.4	14712.0	15161.5	16152.6	16096.4	16459.1	16530.6	16198.5	14957.2
42.5°	15396.5	15325.0	15217.7	15600.9	15978.9	16699.2	16811.5	16643.0	17005.7	17082.3	16489.7
45°	16331.4	16418.2	16433.5	16443.7	16775.8	17404.1	17250.9	17102.7	17521.6	18078.4	17439.9
47.5°	17199.8	16923.9	17123.1	17399.0	17869.0	17874.1	18052.9	17700.4	18144.8	18640.3	18298.1
50°	17490.9	17358.1	17623.8	18144.8	18870.2	18946.8	18967.3	18466.6	18696.5	19089.9	18594.3
52.5°	17378.6	17332.6	18012.0	18819.1	19881.6	20269.9	20372.1	19753.9	19881.6	19702.9	19248.2
55°	16842.2	16980.1	17664.6	19309.5	20939.1	22139.5	22333.7	21552.1	20739.9	20877.8	20377.2
56°	16106.6	15866.5	16632.7	18752.7	20893.1	22747.4	22905.8	21930.1	21378.4	21199.6	20366.9
57.5°	13664.8	13353.2	14359.5	16872.8	19733.5	22517.6	22635.0	22088.5	21271.1	20908.4	18880.4
60°	7999.7	8152.9	9430.0	11636.8	15222.8	18461.5	18854.9	19253.3	18706.7	17082.3	14053.0
62.5°	3861.9	3764.8	4679.2	6671.5	9276.7	11784.9	11667.4	12786.2	13399.2	12137.4	8873.2
65°	2022.9	2012.7	2554.2	3642.2	5098.1	6191.3	6298.6	6901.4	7744.2	6252.6	4505.6
67.5°	1486.5	1527.4	1798.1	2559.3	3279.6	3346.0	3330.6	3632.0	3713.8	3141.6	2768.7
70°	1164.7	1185.1	1384.4	1946.3	2441.8	2186.4	2140.4	2176.2	2416.2	2518.4	2395.8
72.5°	842.9	863.3	1031.9	1312.8	1527.4	1491.6	1522.3	1721.5	2017.8	2125.1	1997.4
75°	561.9	577.2	669.2	802.0	904.2	975.7	1031.9	1261.8	1537.6	1598.9	1537.6
77.5°	388.2	403.6	464.9	567.0	577.2	623.2	643.7	750.9	919.5	996.1	955.3
80°	219.7	219.7	250.3	291.2	357.6	418.9	429.1	515.9	592.6	643.7	653.9
82.5°	102.2	107.3	132.8	178.8	235.0	291.2	301.4	357.6	413.8	464.9	480.2
85°	51.1	56.2	76.6	107.3	143.0	173.7	168.6	173.7	183.9	173.7	178.8
87.5°	15.3	15.3	20.4	25.5	20.4	25.5	25.5	30.7	35.8	40.9	46.0
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°	8045.6	8045.6	8045.6	8045.6	8045.6	8045.6	8045.6	8045.6	8045.6	8045.6	8045.6
2.5°	8091.6	8106.9	8004.8	8101.8	8066.1	8061.0	8132.5	8122.3	8147.8	8137.6	8076.3
5°	8096.7	8061.0	8168.2	8071.2	8117.1	8214.2	8147.8	8301.0	8224.4	8275.5	8163.1
7.5°	8255.1	8265.3	8244.9	8285.7	8265.3	8311.3	8275.5	8311.3	8250.0	8255.1	8357.2
10°	8393.0	8362.3	8398.1	8347.0	8382.8	8367.5	8285.7	8260.2	8280.6	8255.1	8321.5
12.5°	8648.4	8592.2	8566.7	8505.4	8464.5	8311.3	8183.6	8112.0	8209.1	8224.4	8193.8
15°	8908.9	8914.0	8796.6	8658.6	8403.2	8173.3	8204.0	8229.5	8229.5	8270.4	8193.8
17.5°	9072.4	9072.4	8965.1	8689.3	8428.8	8295.9	8265.3	8183.6	8112.0	8101.8	8096.7
20°	9358.5	9271.6	9026.4	8684.2	8418.5	8357.2	8127.4	7933.2	7785.1	7734.0	7728.9
22.5°	9685.4	9465.7	9123.5	8694.4	8403.2	8316.4	7887.3	7596.1	7330.5	7218.1	7233.4
25°	9986.8	9634.3	9179.7	8648.4	8347.0	7928.1	7448.0	7044.4	6768.5	6676.6	6630.6
27.5°	10196.2	9813.1	9179.7	8689.3	8137.6	7493.9	7003.5	6487.6	6247.5	6186.2	6196.4
30°	10477.2	10037.9	9338.0	8602.4	7718.7	6932.0	6344.6	6007.4	5864.4	5813.3	5849.0
32.5°	11136.2	10625.3	9557.7	8393.0	7223.2	6370.1	5895.0	5706.0	5496.6	5394.4	5358.6
35°	11851.3	11182.2	9772.2	8040.5	6666.4	5859.3	5563.0	5389.3	5139.0	5026.6	5047.0
37.5°	12862.8	11897.3	9787.6	7458.2	6063.6	5573.2	5302.5	5031.7	4827.4	4653.7	4602.6
40°	14226.7	12873.0	9751.8	6845.2	5578.3	5236.0	5036.8	4699.7	4469.8	4347.2	4372.7
42.5°	15427.2	14017.3	9603.7	6150.4	5139.0	5006.2	4781.4	4449.4	4224.6	4096.9	4086.7
45°	16438.6	14860.2	9322.7	5557.9	4771.2	4750.8	4490.2	4234.8	4056.0	3938.5	3989.6
47.5°	17373.5	15539.6	8898.7	4965.3	4434.0	4474.9	4224.6	4066.2	3953.9	3846.6	3841.5
50°	17710.6	15529.3	8525.8	4474.9	4163.3	4142.9	4132.6	3964.1	3846.6	3754.6	3795.5
52.5°	18272.5	15703.0	8122.3	4137.8	3918.1	3923.2	3959.0	3836.4	3703.5	3647.4	3698.4
55°	19079.6	15728.6	7233.4	3744.4	3713.8	3749.5	3749.5	3667.8	3555.4	3509.4	3483.9
56°	18420.7	14967.4	6487.6	3642.2	3611.6	3611.6	3708.7	3616.7	3478.8	3443.0	3412.4
57.5°	16990.3	13113.1	5430.2	3519.6	3473.7	3545.2	3596.3	3499.2	3371.5	3320.4	3351.1
60°	11718.5	8873.2	4081.6	3254.0	3254.0	3371.5	3412.4	3269.3	3213.1	3208.0	3167.2
62.5°	6840.1	5169.6	3192.7	3013.9	3024.1	3121.2	3151.8	3070.1	2998.6	3085.4	3126.3
65°	3626.9	3085.4	2738.1	2758.5	2763.6	2840.2	2973.1	2967.9	2962.8	2988.4	2993.5
67.5°	2625.7	2564.4	2487.8	2467.3	2477.5	2533.7	2666.6	2768.7	2763.6	2702.3	2656.3
70°	2339.6	2252.8	2206.8	2211.9	2171.0	2237.5	2344.7	2411.1	2293.6	2222.1	2191.5
72.5°	1946.3	1920.7	1890.1	1895.2	1813.5	1798.1	1675.5	1675.5	1644.9	1624.5	1660.2
75°	1486.5	1476.3	1491.6	1466.1	1379.3	1287.3	1215.8	1149.4	1047.2	1006.3	985.9
77.5°	939.9	970.6	1006.3	950.2	914.4	848.0	776.5	710.1	628.3	582.4	582.4
80°	638.5	664.1	689.6	679.4	638.5	577.2	521.1	449.5	393.3	357.6	352.5
82.5°	485.3	505.7	541.5	500.6	459.8	408.7	362.7	311.6	260.5	219.7	219.7
85°	173.7	199.2	219.7	240.1	255.4	260.5	224.8	183.9	148.1	117.5	112.4
87.5°	46.0	51.1	56.2	51.1	51.1	51.1	56.2	51.1	46.0	35.8	35.8
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)