

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: P531516

Luminaire Tested: **GALN-SA6D-740-U-T2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531516
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-14)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA6D-740-U-T2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38478 lumens
Efficiency: N/A
Efficacy: 104.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G3

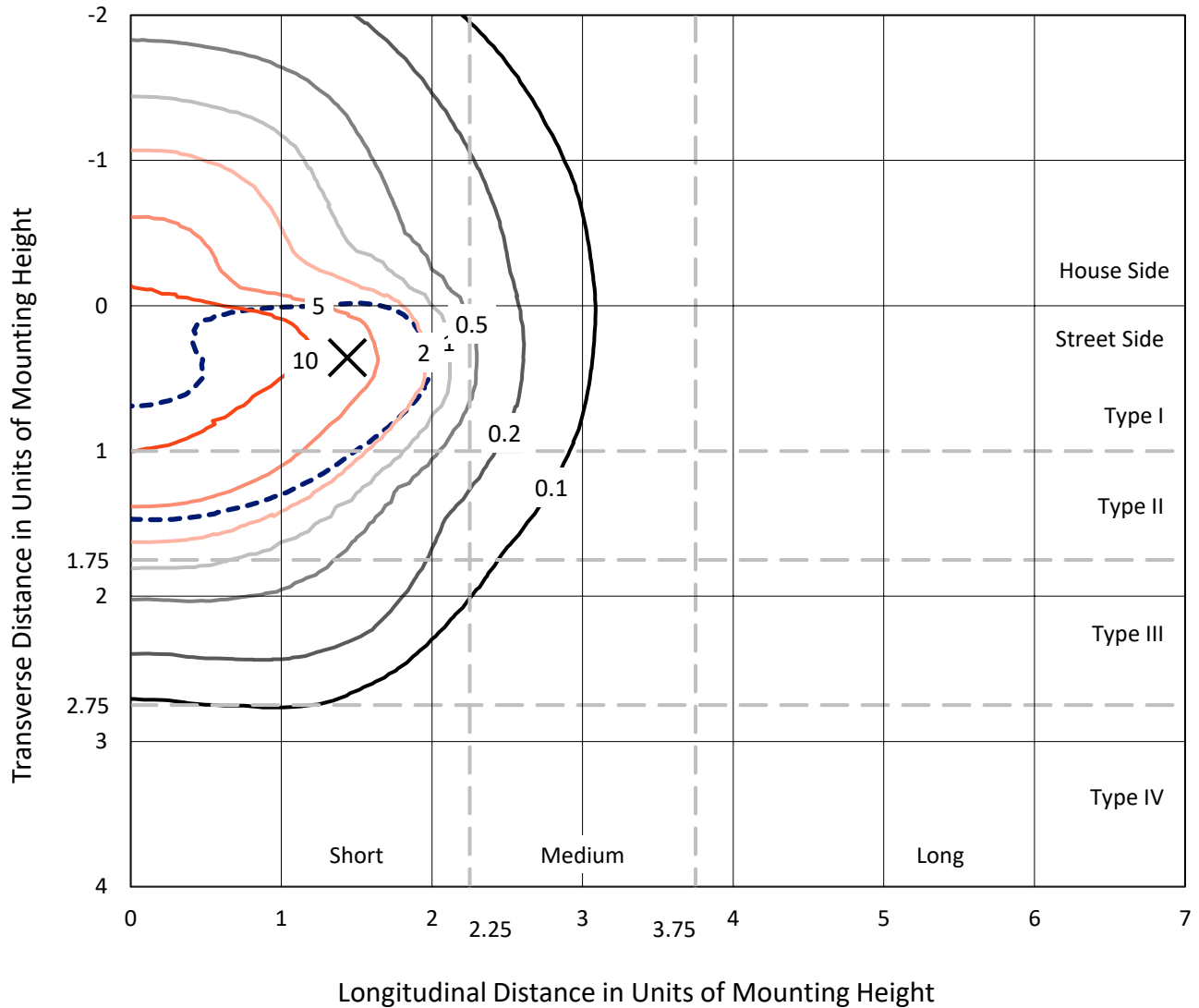
Input Watts (W): 368
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

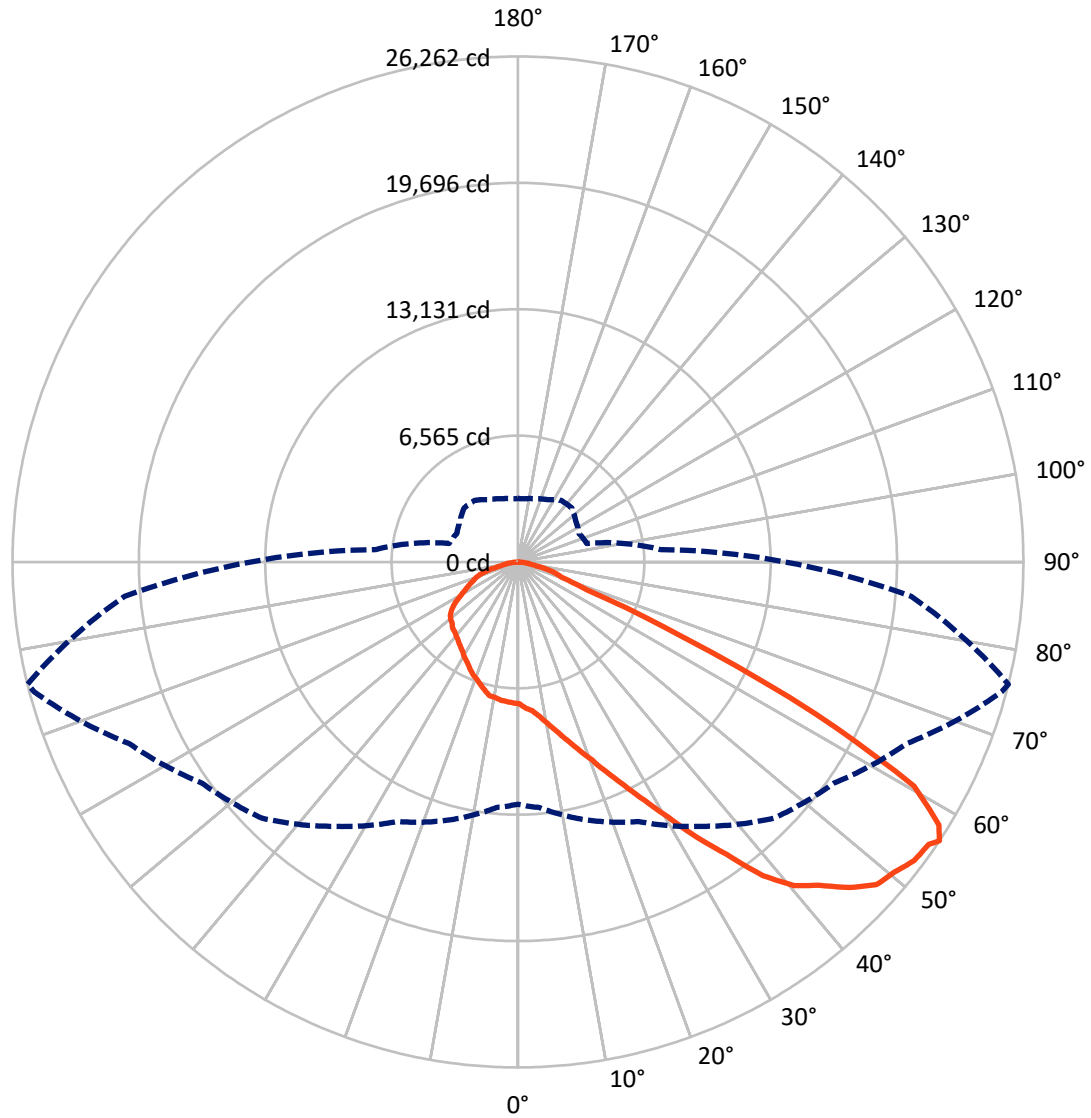
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.4 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
House Side	Lumens	10345.6	0.0	10345.6
	% Fixture	26.9	0.0	26.9
Street Side	Lumens	28132.4	0.0	28132.4
	% Fixture	73.1	0.0	73.1
Total	Lumens	38478.0	0.0	38478.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	730.1	1.9
10°-20°	2293.5	6.0
20°-30°	4011.1	10.4
30°-40°	6280.2	16.3
40°-50°	9135.9	23.7
50°-60°	10040.9	26.1
60°-70°	4481.8	11.6
70°-80°	1294.5	3.4
80°-90°	210.0	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°	38478.0	100.0
0°-180°	38478.0	100.0

Coefficient of Utilization



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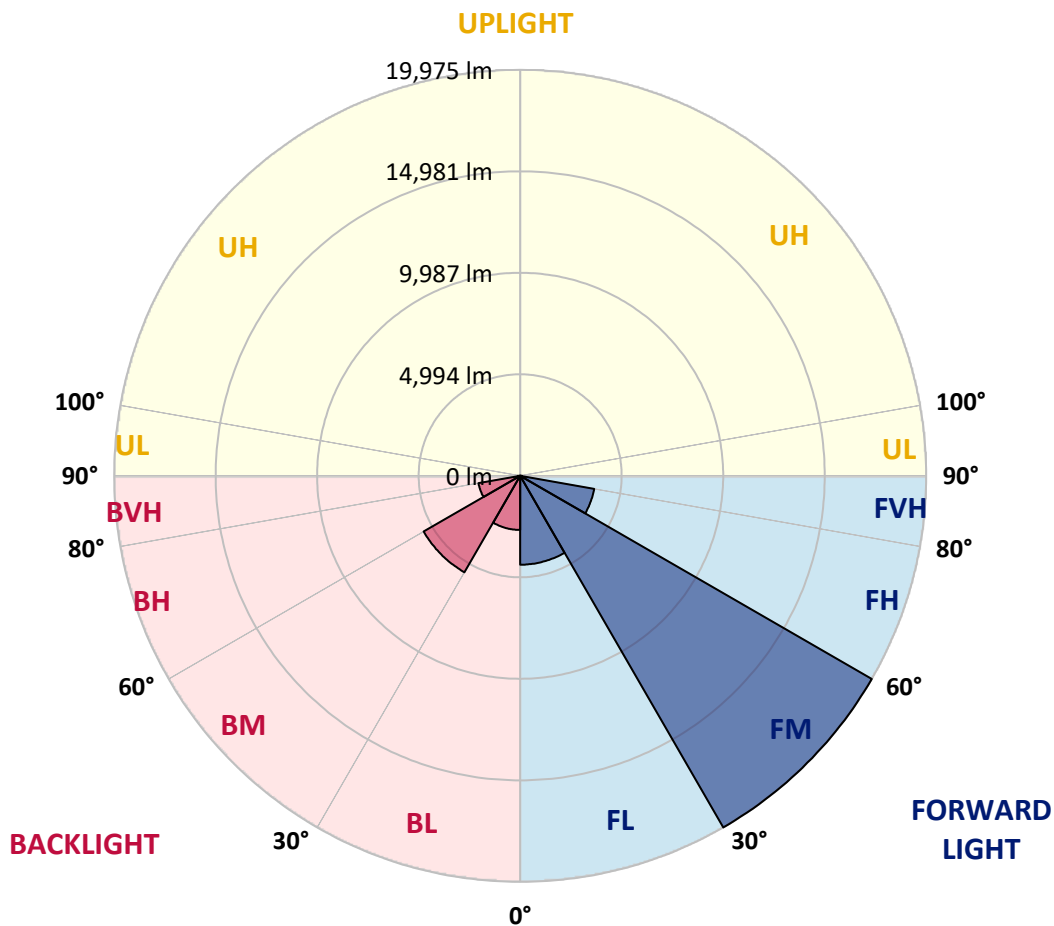
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4372.6	11.4			
FM (30°-60°)	19974.6	51.9			
FH (60°-80°)	3694.8	9.6			G2/5000
FVH (80°-90°)	90.4	0.2			G1/100
BL (0°-30°)	2662.1	6.9	B4/5000		
BM (30°-60°)	5482.3	14.2	B4/8500		
BH (60°-80°)	2081.6	5.4	B3/2500		G3/2500
BVH (80°-90°)	119.6	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°	55°	65°	75°	76°	85°
0°	7362.3	7362.3	7362.3	7362.3	7362.3	7362.3	7362.3	7362.3	7362.3	7362.3	7362.3
2.5°	8110.5	7980.8	7970.8	7935.9	7955.8	7866.1	7771.3	7646.6	7516.9	7596.7	7407.2
5°	8679.1	8504.5	8574.4	8454.6	8469.6	8349.9	8155.4	8010.7	7851.1	7756.3	7621.6
7.5°	8878.6	8893.6	8943.5	8923.5	8823.8	8823.8	8694.1	8439.7	8160.3	8105.5	7881.0
10°	9148.0	9153.0	9098.1	9113.1	9252.7	9187.9	9073.2	8963.4	8604.3	8539.4	8140.4
12.5°	9242.7	9153.0	9242.7	9322.6	9487.2	9576.9	9552.0	9472.2	9088.1	9043.2	8459.6
15°	9257.7	9202.8	9277.7	9457.2	9601.9	9981.0	10170.5	10115.6	9606.9	9611.9	8818.8
17.5°	9187.9	9262.7	9292.6	9447.3	9781.4	10135.6	10684.3	10759.1	10340.1	10275.3	9272.7
20°	9282.6	9227.8	9267.7	9407.3	9851.3	10404.9	11123.2	11617.0	11028.4	10983.6	9741.5
22.5°	9646.8	9572.0	9562.0	9651.8	9971.0	10544.6	11587.1	12475.0	11866.4	11891.4	10325.1
25°	9931.1	9971.0	9936.1	9931.1	10130.6	10754.1	12200.6	13497.5	13003.7	12859.0	11013.5
27.5°	10419.9	10514.7	10444.8	10539.6	10494.7	11068.3	12639.6	14629.8	14230.7	14036.2	11637.0
30°	11098.3	11148.2	11083.3	11083.3	10948.6	11507.3	13038.6	15811.9	15647.3	15383.0	12370.2
32.5°	11991.1	12065.9	11936.3	11861.4	11841.5	12160.7	13756.9	16979.1	17258.4	17034.0	13342.9
35°	13173.3	13128.4	12973.8	12903.9	12634.6	13163.3	14824.3	18320.9	19054.1	18655.1	14520.0
37.5°	14215.8	14145.9	14136.0	13746.9	13811.7	14245.7	15732.1	19338.4	20794.9	20680.2	15762.0
40°	15188.4	15253.3	15358.0	15138.5	15038.8	15517.6	16789.6	20116.6	22146.7	22101.8	16719.7
42.5°	16230.9	16171.1	16355.6	16171.1	16021.4	16699.8	17936.8	20655.3	23333.8	22964.7	17722.3
45°	17742.3	17552.7	17617.6	17632.5	17522.8	17772.2	18410.7	21044.3	24166.8	24126.9	18455.6
47.5°	19004.2	19009.2	18899.5	18814.7	18480.5	18729.9	18939.4	21288.7	25124.5	25059.7	18739.9
50°	19473.1	19408.3	19727.5	19912.1	19932.0	19423.2	19353.4	21423.4	25628.3	25344.0	19024.2
52.5°	17787.2	17847.0	18350.8	19448.2	20081.6	20136.5	19837.2	21702.7	25832.8	25772.9	19253.6
55°	14315.5	14604.8	15432.8	16699.8	18201.2	19852.2	20361.0	21992.0	25942.5	25892.6	20271.2
56°	12584.7	12809.2	13886.6	14879.2	16764.6	18819.7	20031.8	22301.3	26027.3	26261.8	20510.6
57.5°	10130.6	10390.0	11163.1	12290.4	14515.0	16854.4	19123.9	21922.2	25698.1	25787.9	20685.2
60°	6334.7	6359.7	7287.5	8030.7	9596.9	11881.4	14594.9	19074.1	23782.7	23653.0	18580.3
62.5°	4155.0	4160.0	5003.0	5611.5	6324.8	6848.5	8589.3	12649.5	17547.7	17318.3	13228.1
65°	2918.0	2982.8	3636.2	4449.3	4738.6	4464.2	4409.4	6668.9	9801.4	9472.2	7107.9
67.5°	2134.9	2139.8	2718.5	3591.4	4010.3	3396.8	2758.4	3257.2	3880.7	3870.7	3292.1
70°	1411.6	1471.5	1915.4	2683.5	3162.4	2728.4	2254.6	2329.4	2469.1	2469.1	2449.1
72.5°	823.0	877.9	1172.2	1700.9	1775.7	1705.9	1785.7	1995.2	2085.0	2080.0	2055.1
75°	468.9	493.8	558.7	708.3	882.9	1042.5	1311.8	1511.4	1601.1	1656.0	1591.2
77.5°	274.3	289.3	329.2	404.0	458.9	563.6	713.3	852.9	972.7	957.7	967.7
80°	144.7	144.7	184.6	239.4	319.2	399.0	473.9	553.7	618.5	633.5	648.4
82.5°	84.8	89.8	119.7	174.6	229.4	284.3	364.1	419.0	478.8	483.8	493.8
85°	44.9	49.9	74.8	114.7	154.6	174.6	179.6	169.6	184.6	174.6	199.5
87.5°	15.0	15.0	24.9	20.0	20.0	24.9	29.9	29.9	39.9	39.9	39.9
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°	7362.3	7362.3	7362.3	7362.3	7362.3	7362.3	7362.3	7362.3	7362.3	7362.3	7362.3
2.5°	7402.2	7402.2	7317.4	7157.8	7132.8	7068.0	7008.1	7003.1	6958.2	6918.3	6898.4
5°	7541.8	7387.2	7262.5	7117.9	6948.3	6868.5	6778.7	6678.9	6639.0	6678.9	6673.9
7.5°	7701.5	7571.8	7197.7	6928.3	6733.8	6654.0	6554.2	6449.5	6459.4	6459.4	6389.6
10°	7856.1	7681.5	7082.9	6738.8	6454.5	6394.6	6339.7	6379.6	6429.5	6439.5	6394.6
12.5°	8115.5	7721.4	7028.1	6549.2	6369.7	6240.0	6274.9	6384.6	6489.4	6459.4	6494.4
15°	8310.0	7756.3	6778.7	6354.7	6130.2	6190.1	6314.8	6389.6	6564.2	6544.2	6579.2
17.5°	8499.5	7776.3	6534.3	6095.3	6000.6	6165.2	6259.9	6474.4	6529.3	6649.0	6693.9
20°	8888.6	7816.2	6284.9	5935.7	5905.8	6095.3	6259.9	6359.7	6479.4	6584.1	6584.1
22.5°	9088.1	7796.2	6120.3	5726.2	5821.0	5940.7	6090.3	6259.9	6259.9	6359.7	6364.7
25°	9337.5	7716.4	5860.9	5626.5	5696.3	5811.0	5980.6	5920.7	5985.6	5985.6	6065.4
27.5°	9621.8	7546.8	5636.4	5446.9	5586.5	5711.2	5736.2	5696.3	5621.5	5611.5	5581.6
30°	9851.3	7337.3	5471.8	5387.0	5501.8	5571.6	5491.8	5407.0	5277.3	5267.3	5197.5
32.5°	10165.5	7078.0	5267.3	5237.4	5367.1	5372.1	5347.1	5217.4	5027.9	4948.1	4868.3
35°	10694.2	6928.3	5112.7	5157.6	5197.5	5182.5	5137.6	4998.0	4808.4	4773.5	4743.6
37.5°	11083.3	6818.6	4953.1	5007.9	5042.9	5062.8	4928.1	4773.5	4778.5	4708.7	4688.7
40°	11522.3	6748.7	4823.4	4848.3	4853.3	4918.2	4753.6	4678.7	4713.6	4668.8	4698.7
42.5°	12085.9	6768.7	4688.7	4668.8	4763.5	4738.6	4658.8	4559.0	4579.0	4444.3	4464.2
45°	12385.2	6903.4	4608.9	4519.1	4623.9	4618.9	4514.1	4419.4	4299.6	4040.3	4050.2
47.5°	12584.7	6938.3	4419.4	4359.5	4469.2	4534.1	4414.4	4194.9	4025.3	3840.8	3795.9
50°	12789.2	7003.1	4329.6	4204.9	4249.8	4404.4	4254.8	4045.3	3880.7	3716.1	3741.0
52.5°	12968.8	7127.8	4155.0	3970.4	4050.2	4219.8	4140.0	3885.6	3706.1	3571.4	3531.5
55°	13766.8	7407.2	3860.7	3621.3	3810.8	4025.3	3980.4	3671.2	3476.6	3406.8	3396.8
56°	13891.5	7417.1	3706.1	3501.6	3676.1	3960.5	3905.6	3576.4	3401.8	3292.1	3297.1
57.5°	13911.5	7297.4	3486.6	3391.8	3541.5	3865.7	3795.9	3501.6	3262.1	3162.4	3132.5
60°	12240.5	5696.3	3212.3	3152.4	3327.0	3576.4	3551.4	3297.1	3027.7	2913.0	2967.9
62.5°	8344.9	4174.9	2997.8	2987.8	3077.6	3322.0	3257.2	3027.7	2803.2	2728.4	2693.5
65°	4858.3	3167.4	2788.3	2748.4	2823.2	2952.9	2997.8	2758.4	2523.9	2474.0	2459.1
67.5°	2868.1	2618.7	2518.9	2454.1	2429.2	2509.0	2543.9	2404.2	2169.8	2099.9	2159.8
70°	2399.2	2329.4	2334.4	2224.6	2164.8	2109.9	2080.0	1955.3	1760.8	1671.0	1646.0
72.5°	2070.0	2040.1	2020.1	1920.4	1865.5	1740.8	1611.1	1486.4	1341.8	1266.9	1271.9
75°	1581.2	1571.2	1581.2	1531.3	1436.5	1336.8	1217.1	1057.5	947.7	852.9	872.9
77.5°	942.7	972.7	987.6	967.7	927.8	838.0	763.2	658.4	553.7	478.8	468.9
80°	648.4	673.4	698.3	673.4	633.5	568.6	488.8	409.0	334.2	294.3	284.3
82.5°	493.8	518.8	533.7	508.8	458.9	389.1	334.2	279.3	219.5	179.6	169.6
85°	179.6	204.5	199.5	239.4	259.4	249.4	214.5	164.6	124.7	89.8	84.8
87.5°	49.9	44.9	49.9	49.9	49.9	44.9	39.9	39.9	39.9	24.9	20.0
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)