

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: P531932

Luminaire Tested: **GALN-SA7B-730-U-T2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531932
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-SA7B-730-U-T2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3000K, 800mA 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: 30276 lumens
Efficiency: N/A
Efficacy: 105.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

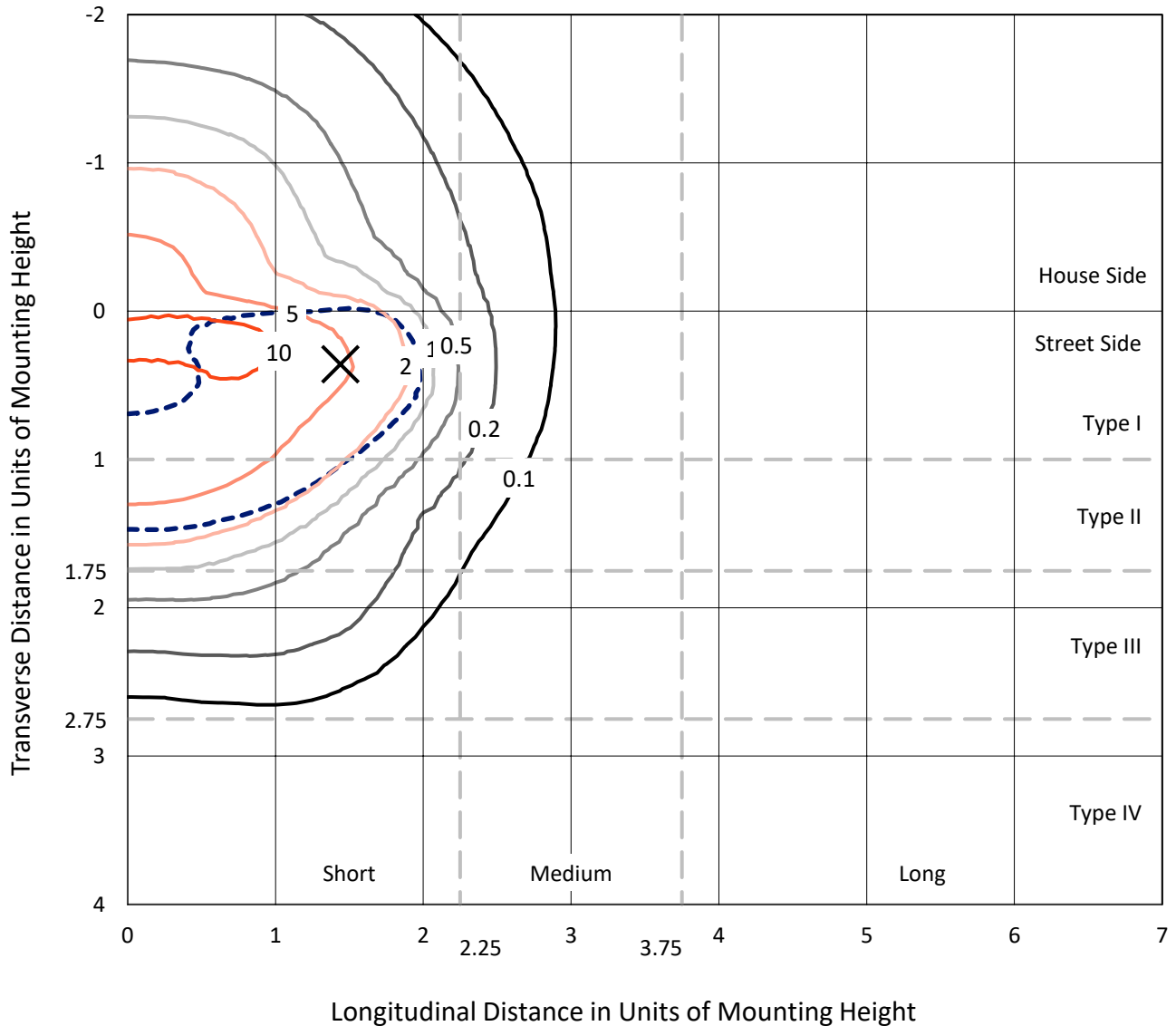
Input Watts (W): 286
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

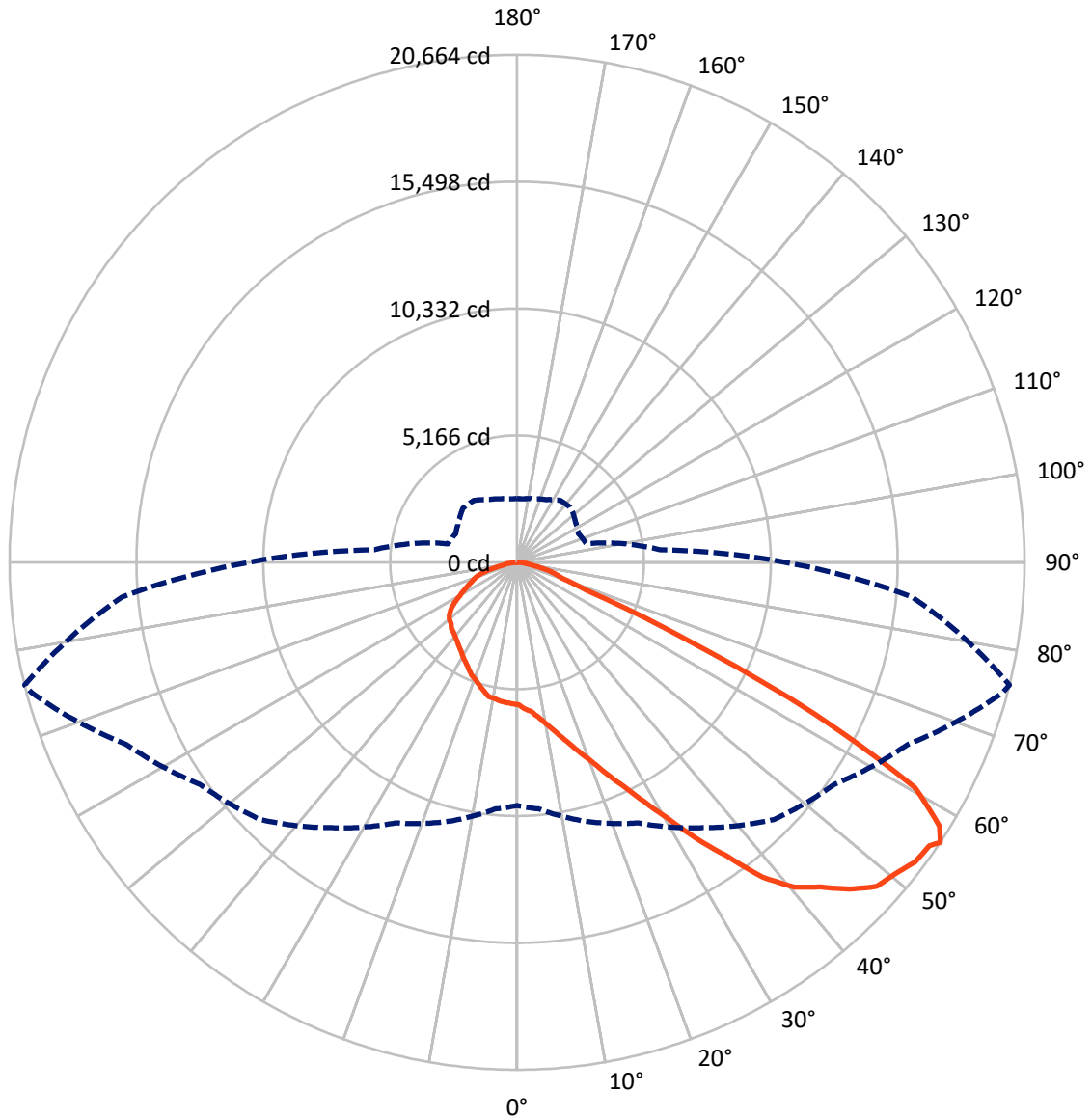
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.9 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	8140.3	0.0	8140.3
	% Fixture	26.9	0.0	26.9
Street Side	Lumens	22135.7	0.0	22135.7
	% Fixture	73.1	0.0	73.1
Total	Lumens	30276.0	0.0	30276.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	574.5	1.9
10°-20°	1804.6	6.0
20°-30°	3156.1	10.4
30°-40°	4941.5	16.3
40°-50°	7188.5	23.7
50°-60°	7900.6	26.1
60°-70°	3526.5	11.6
70°-80°	1018.6	3.4
80°-90°	165.2	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°	30276.0	100.0
0°-180°	30276.0	100.0

Coefficient of Utilization

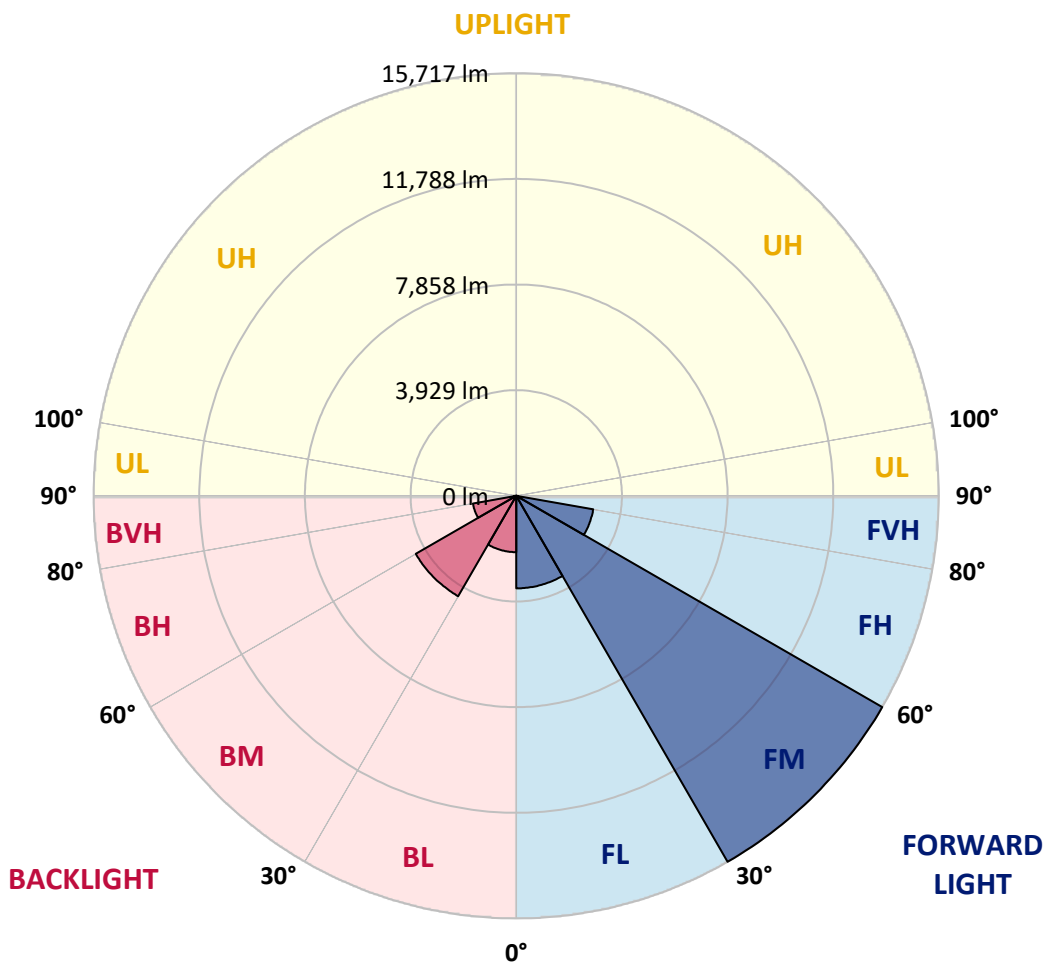


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3440.5	11.4			
FM (30°-60°)	15716.8	51.9			
FH (60°-80°)	2907.2	9.6			G2/5000
FVH (80°-90°)	71.1	0.2			G1/100
BL (0°-30°)	2094.7	6.9	B3/2500		
BM (30°-60°)	4313.7	14.2	B3/5000		
BH (60°-80°)	1637.8	5.4	B3/2500		G3/2500
BVH (80°-90°)	94.1	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	5792.9	5792.9	5792.9	5792.9	5792.9	5792.9	5792.9	5792.9	5792.9	5792.9	5792.9
2.5°	6381.6	6279.6	6271.7	6244.3	6260.0	6189.3	6114.8	6016.6	5914.6	5977.4	5828.2
5°	6829.1	6691.7	6746.6	6652.4	6664.2	6570.0	6417.0	6303.1	6177.5	6103.0	5997.0
7.5°	6986.0	6997.8	7037.1	7021.4	6942.9	6942.9	6840.8	6640.7	6420.9	6377.7	6201.1
10°	7198.0	7201.9	7158.7	7170.5	7280.4	7229.4	7139.1	7052.8	6770.2	6719.2	6405.2
12.5°	7272.6	7201.9	7272.6	7335.3	7464.9	7535.5	7515.9	7453.1	7150.9	7115.6	6656.4
15°	7284.3	7241.2	7300.0	7441.3	7555.1	7853.4	8002.6	7959.4	7559.1	7563.0	6938.9
17.5°	7229.4	7288.3	7311.8	7433.5	7696.4	7975.1	8406.8	8465.7	8136.0	8085.0	7296.1
20°	7304.0	7260.8	7292.2	7402.1	7751.4	8187.0	8752.2	9140.7	8677.6	8642.3	7665.0
22.5°	7590.5	7531.6	7523.7	7594.4	7845.6	8296.9	9117.2	9815.8	9337.0	9356.6	8124.2
25°	7814.2	7845.6	7818.1	7814.2	7971.2	8461.8	9599.9	10620.4	10231.8	10118.0	8665.8
27.5°	8198.8	8273.4	8218.4	8293.0	8257.7	8709.0	9945.3	11511.3	11197.3	11044.2	9156.4
30°	8732.6	8771.8	8720.8	8720.8	8614.8	9054.4	10259.3	12441.4	12311.9	12103.9	9733.4
32.5°	9435.1	9494.0	9391.9	9333.0	9317.3	9568.5	10824.4	13359.8	13579.6	13403.0	10498.7
35°	10365.3	10329.9	10208.3	10153.3	9941.4	10357.4	11664.3	14415.6	14992.5	14678.5	11424.9
37.5°	11185.5	11130.6	11122.7	10816.6	10867.6	11209.1	12378.6	15216.2	16362.3	16272.0	12402.2
40°	11950.8	12001.9	12084.3	11911.6	11833.1	12209.9	13210.7	15828.5	17425.9	17390.5	13155.7
42.5°	12771.1	12724.0	12869.2	12724.0	12606.3	13140.0	14113.4	16252.4	18360.0	18069.5	13944.6
45°	13960.3	13811.2	13862.2	13874.0	13787.6	13983.9	14486.2	16558.5	19015.4	18984.0	14521.6
47.5°	14953.3	14957.2	14870.9	14804.1	14541.2	14737.4	14902.3	16750.8	19768.9	19717.9	14745.3
50°	15322.2	15271.2	15522.4	15667.6	15683.3	15283.0	15228.0	16856.8	20165.3	19941.6	14969.0
52.5°	13995.6	14042.7	14439.1	15302.6	15801.0	15844.2	15608.7	17076.6	20326.3	20279.2	15149.5
55°	11264.0	11491.7	12143.2	13140.0	14321.4	15620.5	16020.8	17304.2	20412.6	20373.4	15950.2
56°	9902.1	10078.7	10926.5	11707.5	13191.1	14808.1	15761.8	17547.5	20479.3	20663.8	16138.6
57.5°	7971.2	8175.2	8783.6	9670.6	11421.0	13261.7	15047.5	17249.3	20220.3	20290.9	16275.9
60°	4984.4	5004.1	5734.1	6318.8	7551.2	9348.7	11483.8	15008.2	18713.2	18611.1	14619.7
62.5°	3269.3	3273.2	3936.5	4415.3	4976.6	5388.7	6758.4	9953.2	13807.3	13626.7	10408.4
65°	2296.0	2347.0	2861.1	3500.9	3728.5	3512.6	3469.5	5247.4	7712.1	7453.1	5592.8
67.5°	1679.8	1683.7	2139.0	2825.8	3155.5	2672.8	2170.4	2562.9	3053.5	3045.6	2590.3
70°	1110.7	1157.8	1507.1	2111.5	2488.3	2146.8	1774.0	1832.9	1942.7	1942.7	1927.0
72.5°	647.6	690.8	922.3	1338.3	1397.2	1342.3	1405.1	1569.9	1640.5	1636.6	1617.0
75°	368.9	388.5	439.6	557.3	694.7	820.3	1032.2	1189.2	1259.8	1303.0	1252.0
77.5°	215.9	227.6	259.0	317.9	361.1	443.5	561.2	671.1	765.3	753.6	761.4
80°	113.8	113.8	145.2	188.4	251.2	314.0	372.9	435.6	486.7	498.4	510.2
82.5°	66.7	70.6	94.2	137.4	180.5	223.7	286.5	329.7	376.8	380.7	388.5
85°	35.3	39.2	58.9	90.3	121.7	137.4	141.3	133.4	145.2	137.4	157.0
87.5°	11.8	11.8	19.6	15.7	15.7	19.6	23.5	23.5	31.4	31.4	31.4
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°	5792.9	5792.9	5792.9	5792.9	5792.9	5792.9	5792.9	5792.9	5792.9	5792.9	5792.9
2.5°	5824.3	5824.3	5757.6	5632.0	5612.4	5561.4	5514.3	5510.3	5475.0	5443.6	5427.9
5°	5934.2	5812.5	5714.4	5600.6	5467.2	5404.4	5333.7	5255.2	5223.8	5255.2	5251.3
7.5°	6059.8	5957.8	5663.4	5451.5	5298.4	5235.6	5157.1	5074.7	5082.5	5082.5	5027.6
10°	6181.5	6044.1	5573.1	5302.3	5078.6	5031.5	4988.4	5019.7	5059.0	5066.8	5031.5
12.5°	6385.6	6075.5	5530.0	5153.2	5011.9	4909.9	4937.3	5023.7	5106.1	5082.5	5110.0
15°	6538.6	6103.0	5333.7	5000.1	4823.5	4870.6	4968.7	5027.6	5165.0	5149.3	5176.7
17.5°	6687.8	6118.7	5141.4	4796.0	4721.5	4851.0	4925.6	5094.3	5137.5	5231.7	5267.0
20°	6993.9	6150.1	4945.2	4670.4	4646.9	4796.0	4925.6	5004.1	5098.2	5180.7	5180.7
22.5°	7150.9	6134.4	4815.7	4505.6	4580.2	4674.4	4792.1	4925.6	4925.6	5004.1	5008.0
25°	7347.1	6071.6	4611.6	4427.1	4482.1	4572.3	4705.8	4658.7	4709.7	4709.7	4772.5
27.5°	7570.8	5938.1	4435.0	4285.8	4395.7	4493.8	4513.5	4482.1	4423.2	4415.3	4391.8
30°	7751.4	5773.3	4305.4	4238.7	4329.0	4383.9	4321.1	4254.4	4152.4	4144.5	4089.6
32.5°	7998.6	5569.2	4144.5	4121.0	4223.0	4227.0	4207.3	4105.3	3956.1	3893.3	3830.6
35°	8414.7	5451.5	4022.9	4058.2	4089.6	4077.8	4042.5	3932.6	3783.5	3756.0	3732.4
37.5°	8720.8	5365.1	3897.3	3940.4	3967.9	3983.6	3877.6	3756.0	3759.9	3705.0	3689.3
40°	9066.2	5310.2	3795.2	3814.9	3818.8	3869.8	3740.3	3681.4	3708.9	3673.6	3697.1
42.5°	9509.7	5325.9	3689.3	3673.6	3748.1	3728.5	3665.7	3587.2	3602.9	3496.9	3512.6
45°	9745.1	5431.8	3626.5	3555.8	3638.2	3634.3	3551.9	3477.3	3383.1	3179.0	3186.9
47.5°	9902.1	5459.3	3477.3	3430.2	3516.6	3567.6	3473.4	3300.7	3167.3	3022.1	2986.7
50°	10063.0	5510.3	3406.7	3308.6	3343.9	3465.5	3347.8	3183.0	3053.5	2923.9	2943.6
52.5°	10204.3	5608.5	3269.3	3124.1	3186.9	3320.3	3257.5	3057.4	2916.1	2810.1	2778.7
55°	10832.3	5828.2	3037.8	2849.4	2998.5	3167.3	3131.9	2888.6	2735.5	2680.6	2672.8
56°	10930.4	5836.1	2916.1	2755.2	2892.5	3116.2	3073.1	2814.0	2676.7	2590.3	2594.3
57.5°	10946.1	5741.9	2743.4	2668.8	2786.6	3041.7	2986.7	2755.2	2566.8	2488.3	2464.7
60°	9631.3	4482.1	2527.5	2480.4	2617.8	2814.0	2794.4	2594.3	2382.3	2292.1	2335.2
62.5°	6566.1	3285.0	2358.8	2350.9	2421.6	2613.9	2562.9	2382.3	2205.7	2146.8	2119.4
65°	3822.7	2492.2	2193.9	2162.5	2221.4	2323.4	2358.8	2170.4	1985.9	1946.7	1934.9
67.5°	2256.7	2060.5	1982.0	1931.0	1911.4	1974.1	2001.6	1891.7	1707.3	1652.3	1699.4
70°	1887.8	1832.9	1836.8	1750.4	1703.3	1660.2	1636.6	1538.5	1385.4	1314.8	1295.2
72.5°	1628.8	1605.2	1589.5	1511.0	1467.9	1369.7	1267.7	1169.6	1055.8	996.9	1000.8
75°	1244.1	1236.3	1244.1	1204.9	1130.3	1051.8	957.6	832.0	745.7	671.1	686.8
77.5°	741.8	765.3	777.1	761.4	730.0	659.4	600.5	518.1	435.6	376.8	368.9
80°	510.2	529.8	549.5	529.8	498.4	447.4	384.6	321.8	263.0	231.6	223.7
82.5°	388.5	408.2	419.9	400.3	361.1	306.1	263.0	219.8	172.7	141.3	133.4
85°	141.3	160.9	157.0	188.4	204.1	196.2	168.8	129.5	98.1	70.6	66.7
87.5°	39.2	35.3	39.2	39.2	39.2	35.3	31.4	31.4	31.4	19.6	15.7
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)