

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: P531976

Luminaire Tested: **GALN-SA7B-740-U-SL2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531976
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-18)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7B-740-U-SL2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33592 lumens
Efficiency: N/A
Efficacy: 117.5 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

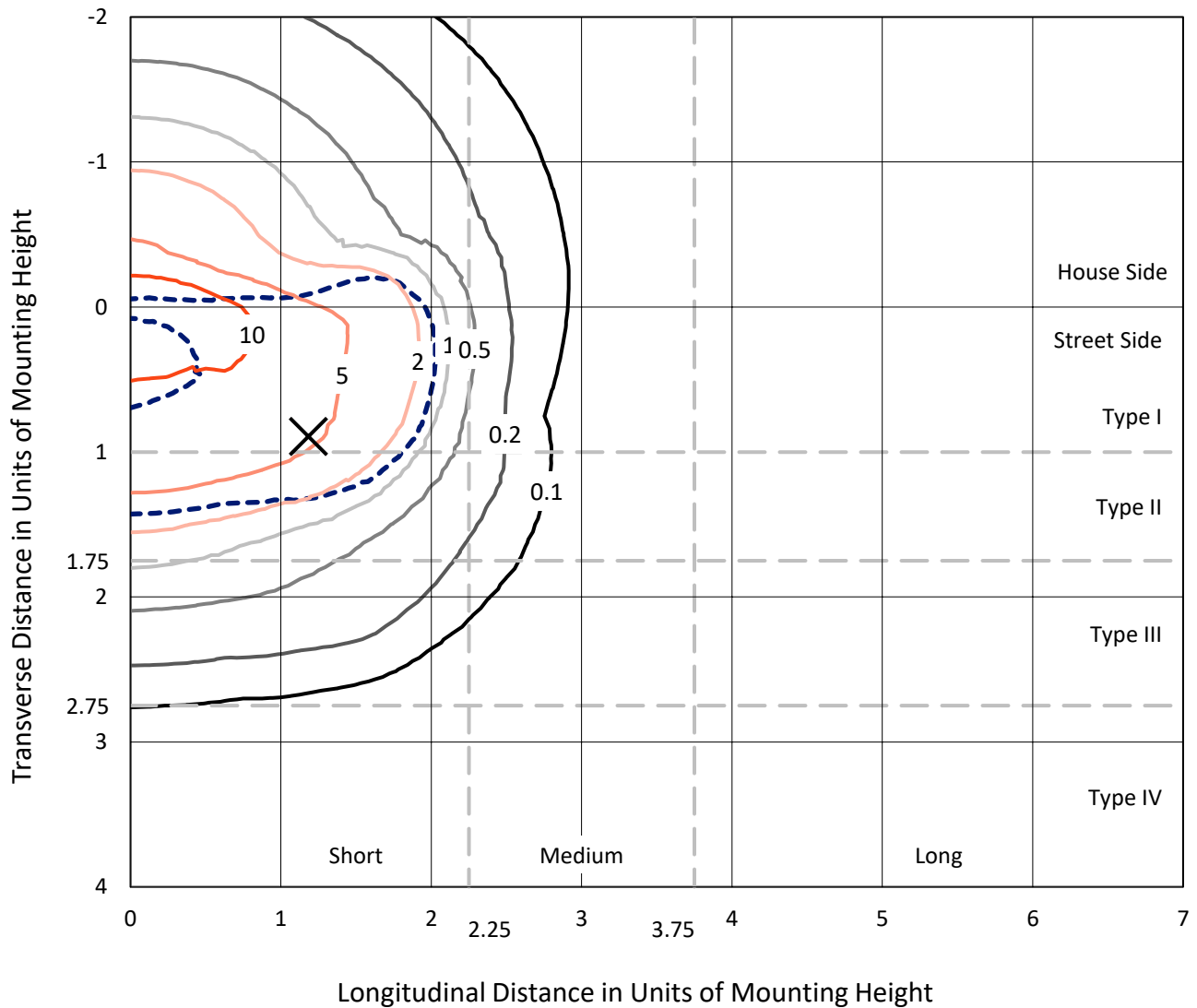
Input Watts (W): 286
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

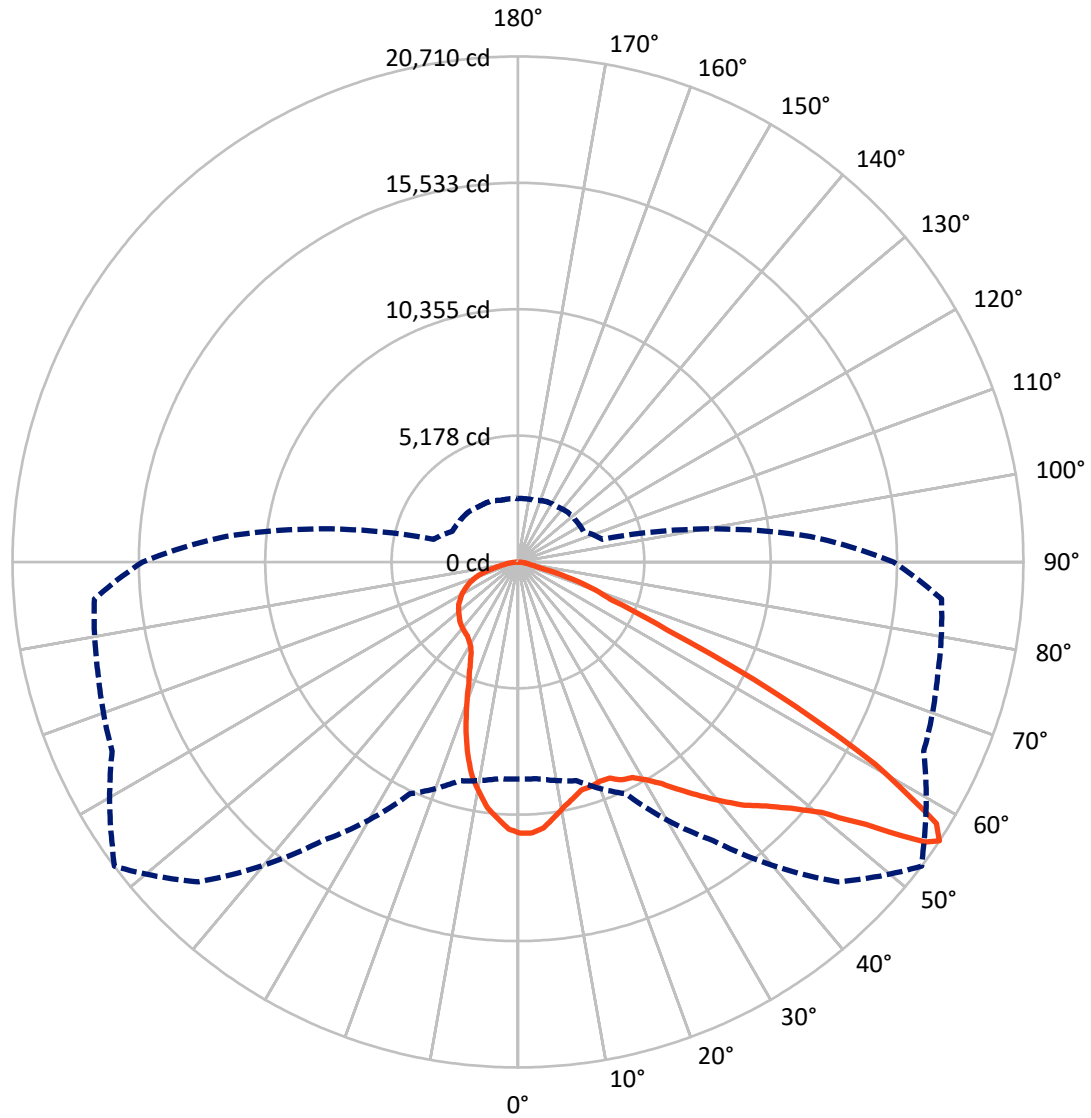
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9802.9	0.0	9802.9
	% Fixture	29.2	0.0	29.2
Street Side	Lumens	23789.1	0.0	23789.1
	% Fixture	70.8	0.0	70.8
Total	Lumens	33592.0	0.0	33592.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	983.9	2.9
10°-20°	2457.3	7.3
20°-30°	3623.5	10.8
30°-40°	5177.2	15.4
40°-50°	7125.8	21.2
50°-60°	8420.7	25.1
60°-70°	4487.7	13.4
70°-80°	1138.5	3.4
80°-90°	177.5	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°	33592.0	100.0
0°-180°	33592.0	100.0

Coefficient of Utilization



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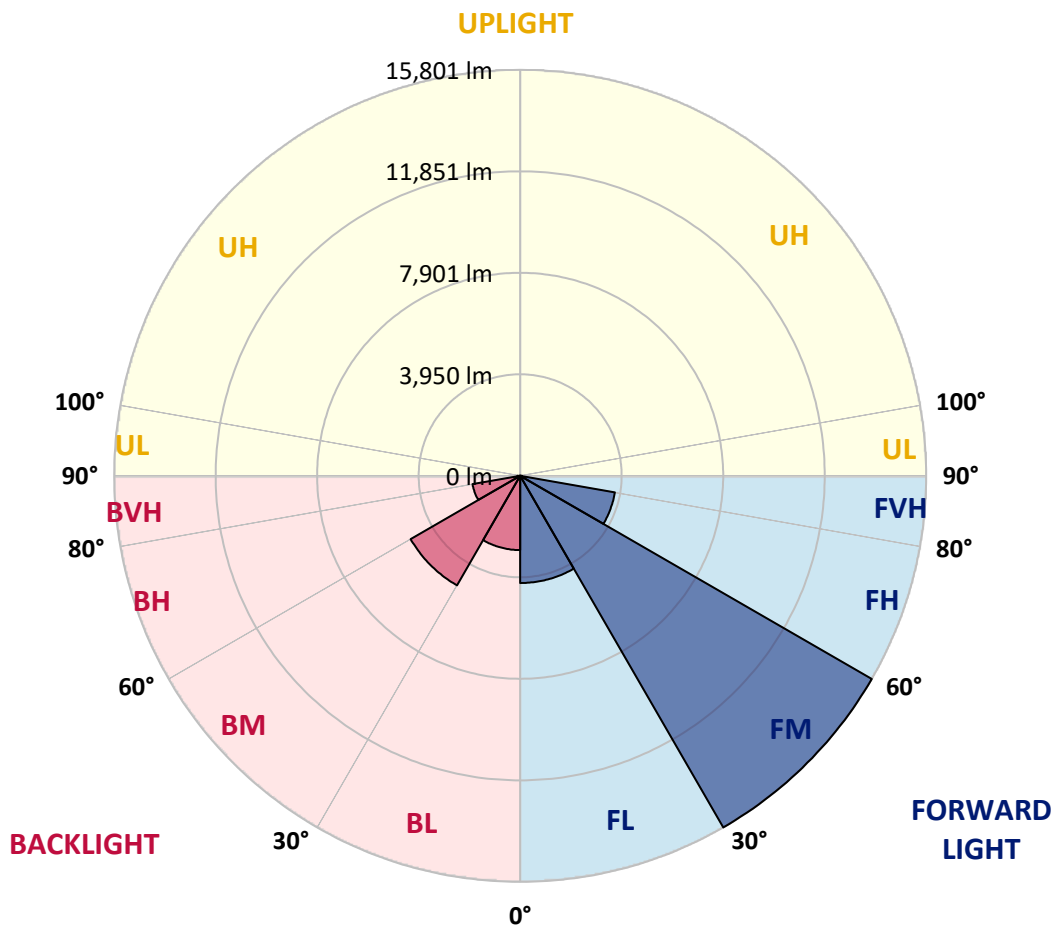
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4173.3	12.4			
FM (30°-60°)	15801.0	47.0			
FH (60°-80°)	3743.4	11.1			G2/5000
FVH (80°-90°)	71.4	0.2			G1/100
BL (0°-30°)	2891.3	8.6	B4/5000		
BM (30°-60°)	4922.7	14.7	B3/5000		
BH (60°-80°)	1882.8	5.6	B3/2500		G3/2500
BVH (80°-90°)	106.2	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°	53°	55°	65°	75°	85°
0°	11113.6	11113.6	11113.6	11113.6	11113.6	11113.6	11113.6	11113.6	11113.6	11113.6	11113.6
2.5°	10975.7	10880.9	10936.9	10915.3	11092.0	11143.7	11117.9	11139.4	11238.5	11191.1	11092.0
5°	10256.0	10389.6	10415.5	10480.1	10583.5	10786.1	10945.5	10988.6	11036.0	11255.8	11234.2
7.5°	9601.0	9691.5	9644.1	9833.7	10057.8	10385.3	10579.2	10613.7	11048.9	11169.6	11260.1
10°	9187.3	9096.8	9312.3	9364.0	9618.2	9993.2	10225.9	10368.1	10764.5	11242.8	11298.9
12.5°	8803.8	8773.6	8902.9	9049.4	9333.8	9721.7	9958.7	10014.7	10626.6	11130.8	11393.7
15°	8519.4	8484.9	8614.2	8721.9	9053.7	9398.5	9700.1	9859.6	10475.8	11066.2	11311.8
17.5°	8295.3	8291.0	8364.3	8558.2	8898.6	9187.3	9674.3	9682.9	10398.2	11165.3	11380.7
20°	8282.4	8278.1	8291.0	8506.5	8816.7	9170.1	9592.4	9670.0	10398.2	11096.3	11385.0
22.5°	8390.1	8321.2	8398.7	8536.6	8760.7	9200.3	9622.6	9794.9	10648.2	11436.8	11579.0
25°	8562.5	8579.7	8622.8	8670.2	8799.5	9269.2	9889.7	10031.9	10941.2	11729.8	11846.1
27.5°	8877.1	8868.4	8885.7	8911.5	9023.6	9333.8	9997.5	10363.7	11553.1	12251.2	12134.8
30°	9338.1	9308.0	9376.9	9467.4	9364.0	9540.7	10355.1	10630.9	12121.9	12776.9	12458.0
32.5°	9756.1	9868.2	9997.5	10036.2	9911.3	9945.8	10829.1	11109.2	12595.9	13423.3	12854.5
35°	10277.6	10368.1	10540.4	10661.1	10639.5	10536.1	11475.5	11846.1	13281.1	13897.3	13272.5
37.5°	10786.1	10893.8	11178.2	11535.9	11337.6	11290.2	12165.0	12471.0	13492.3	14151.6	13578.4
40°	11604.8	11600.5	12091.8	12277.1	12453.7	12371.9	12880.4	12983.8	13604.3	14095.6	13587.1
42.5°	12565.8	12505.4	13005.3	13294.0	13522.4	13531.0	13625.9	13591.4	13656.0	13811.1	13496.6
45°	13479.3	13608.6	14112.8	14629.9	14858.3	14884.2	14255.0	14190.4	13746.5	13729.3	13324.2
47.5°	14595.4	14625.6	15039.3	15720.1	16250.2	16069.2	15069.4	14927.2	14143.0	14276.5	13612.9
50°	14660.1	14884.2	15254.7	16056.3	17685.2	17637.8	16125.2	15858.0	14780.7	15052.2	14418.8
52.5°	13307.0	13255.3	13694.8	15004.8	17577.4	19197.7	17874.8	17237.0	16151.1	15944.2	15724.5
55°	10139.7	10260.3	10648.2	11971.1	15263.4	19219.3	20257.8	19736.4	17616.2	17262.9	17008.6
56°	8894.3	8911.5	9277.8	10484.4	13927.5	18534.1	20710.3	20288.0	18344.5	17805.8	17418.0
57.5°	7373.1	7274.0	7463.6	8122.9	11755.6	17086.2	20214.7	20628.4	19197.7	18391.9	17853.2
60°	5804.6	5783.0	5705.4	5826.1	7429.1	12871.7	16827.6	17758.4	19111.5	17840.3	17099.1
62.5°	4740.2	4632.4	4787.6	4959.9	5162.5	7985.0	11824.6	12371.9	15172.9	14242.1	12845.9
65°	3675.8	3624.1	3818.0	4378.2	4498.9	5072.0	6735.4	7157.7	8958.9	8799.5	7748.0
67.5°	2529.5	2538.1	2706.2	3559.4	4171.4	4119.6	4124.0	4343.7	4675.5	3473.3	3025.1
70°	1603.0	1598.7	1689.2	2292.5	3356.9	3391.4	3219.0	3154.4	2990.6	1809.9	1917.6
72.5°	1029.9	999.7	1047.1	1266.9	1736.6	2008.1	2068.4	2107.2	1732.3	1422.1	1542.7
75°	581.7	551.6	534.3	590.4	685.2	792.9	870.5	896.3	1004.1	1077.3	1142.0
77.5°	176.7	159.4	193.9	258.6	340.4	456.8	555.9	573.1	676.6	762.7	827.4
80°	77.6	86.2	120.7	172.4	241.3	323.2	392.1	418.0	486.9	551.6	568.8
82.5°	47.4	51.7	81.9	116.3	168.1	228.4	280.1	288.7	357.7	409.4	422.3
85°	17.2	21.5	43.1	68.9	107.7	146.5	146.5	159.4	146.5	146.5	159.4
87.5°	0.0	0.0	4.3	8.6	8.6	12.9	17.2	17.2	21.5	25.9	30.2
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°	11113.6	11113.6	11113.6	11113.6	11113.6	11113.6	11113.6	11113.6	11113.6	11113.6	11113.6
2.5°	11143.7	11122.2	11087.7	10962.7	10949.8	10911.0	10695.6	10661.1	10695.6	10592.1	10600.8
5°	11122.2	11186.8	10928.3	10803.3	10570.6	10402.5	10208.6	10109.5	9932.8	9820.8	9945.8
7.5°	11217.0	11191.1	10867.9	10596.4	10247.4	9820.8	9480.4	9286.4	8976.2	8890.0	8954.6
10°	11182.5	11044.6	10665.4	10307.7	9648.4	9273.5	8721.9	8187.6	7894.5	7743.7	7722.2
12.5°	11135.1	11096.3	10462.9	9846.6	9152.8	8364.3	7588.6	7084.4	6606.1	6399.2	6429.4
15°	11191.1	10863.6	10083.6	9303.7	8381.5	7347.3	6511.3	5860.6	5528.8	5395.2	5395.2
17.5°	11165.3	10751.6	9902.7	8696.1	7528.3	6304.4	5386.6	4994.4	4856.5	4856.5	4895.3
20°	11178.2	10824.8	9536.4	8088.5	6519.9	5309.0	4641.1	4498.9	4559.2	4580.7	4602.3
22.5°	11251.5	10583.5	9178.7	7420.5	5584.8	4542.0	4214.4	4218.8	4326.5	4442.8	4421.3
25°	11341.9	10488.7	8743.5	6756.9	4869.5	4167.0	4063.6	4050.7	4132.6	4192.9	4201.5
27.5°	11264.4	10325.0	8299.6	5929.5	4283.4	3917.1	3895.6	3904.2	3930.0	4050.7	4011.9
30°	11518.6	10372.4	7743.7	5235.7	3960.2	3835.2	3809.4	3796.4	3835.2	3869.7	3839.5
32.5°	11833.2	10204.3	7330.0	4567.8	3800.8	3774.9	3723.2	3706.0	3727.5	3693.0	3710.3
35°	11971.1	10174.1	6791.4	4089.5	3675.8	3654.2	3624.1	3619.8	3624.1	3593.9	3568.1
37.5°	12048.7	10316.3	6175.2	3869.7	3598.2	3619.8	3550.8	3542.2	3464.6	3481.9	3494.8
40°	12182.3	10096.6	5675.3	3658.6	3550.8	3507.7	3447.4	3434.5	3382.8	3352.6	3382.8
42.5°	11988.3	10031.9	5184.0	3568.1	3481.9	3434.5	3391.4	3318.1	3300.9	3275.0	3257.8
45°	11833.2	9661.3	4744.5	3456.0	3400.0	3374.1	3292.3	3214.7	3150.1	3175.9	3137.1
47.5°	11949.6	9532.1	4309.3	3361.2	3288.0	3257.8	3175.9	3115.6	3050.9	3020.8	3012.2
50°	12415.0	9773.4	3943.0	3292.3	3193.2	3175.9	3068.2	2999.2	2938.9	2917.4	2926.0
52.5°	13526.7	10432.7	3693.0	3150.1	3102.7	3025.1	2964.8	2878.6	2839.8	2770.8	2813.9
55°	14935.9	11505.7	3628.4	3016.5	2990.6	2921.7	2839.8	2775.2	2701.9	2645.9	2633.0
56°	15388.3	12018.5	3576.7	2964.8	2921.7	2882.9	2775.2	2736.4	2620.0	2607.1	2598.5
57.5°	15754.6	12471.0	3585.3	2865.7	2822.6	2788.1	2723.4	2628.6	2551.1	2503.7	2525.2
60°	14927.2	11673.8	3421.5	2714.8	2706.2	2641.6	2551.1	2508.0	2413.2	2357.2	2344.2
62.5°	11096.3	7924.7	2775.2	2520.9	2516.6	2447.7	2344.2	2296.8	2279.6	2202.0	2202.0
65°	6390.6	4968.6	2400.3	2361.5	2327.0	2258.0	2154.6	2115.8	2072.7	2046.9	2025.3
67.5°	2727.8	2576.9	2180.5	2176.2	2137.4	2051.2	1947.8	1887.5	1831.4	1779.7	1805.6
70°	1977.9	2008.1	1969.3	1947.8	1900.4	1792.6	1702.2	1628.9	1542.7	1508.2	1534.1
72.5°	1568.6	1633.2	1689.2	1693.5	1637.5	1512.5	1413.4	1314.3	1219.5	1172.1	1193.7
75°	1189.4	1232.4	1288.5	1301.4	1219.5	1133.3	1038.5	935.1	861.9	805.8	814.4
77.5°	857.5	848.9	900.6	892.0	853.2	792.9	706.7	611.9	530.0	478.3	482.6
80°	586.1	599.0	629.2	624.8	577.4	538.7	474.0	396.5	336.1	293.0	284.4
82.5°	409.4	430.9	456.8	435.2	396.5	357.7	310.3	254.2	206.8	172.4	163.8
85°	146.5	168.1	193.9	206.8	219.8	211.2	176.7	142.2	103.4	86.2	81.9
87.5°	30.2	34.5	38.8	38.8	38.8	34.5	30.2	30.2	25.9	12.9	12.9
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)