

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: P531987

Luminaire Tested: **GALN-SA7B-740-U-T3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531987
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-15)
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-T3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23668 lumens
Efficiency: N/A
Efficacy: 82.8 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

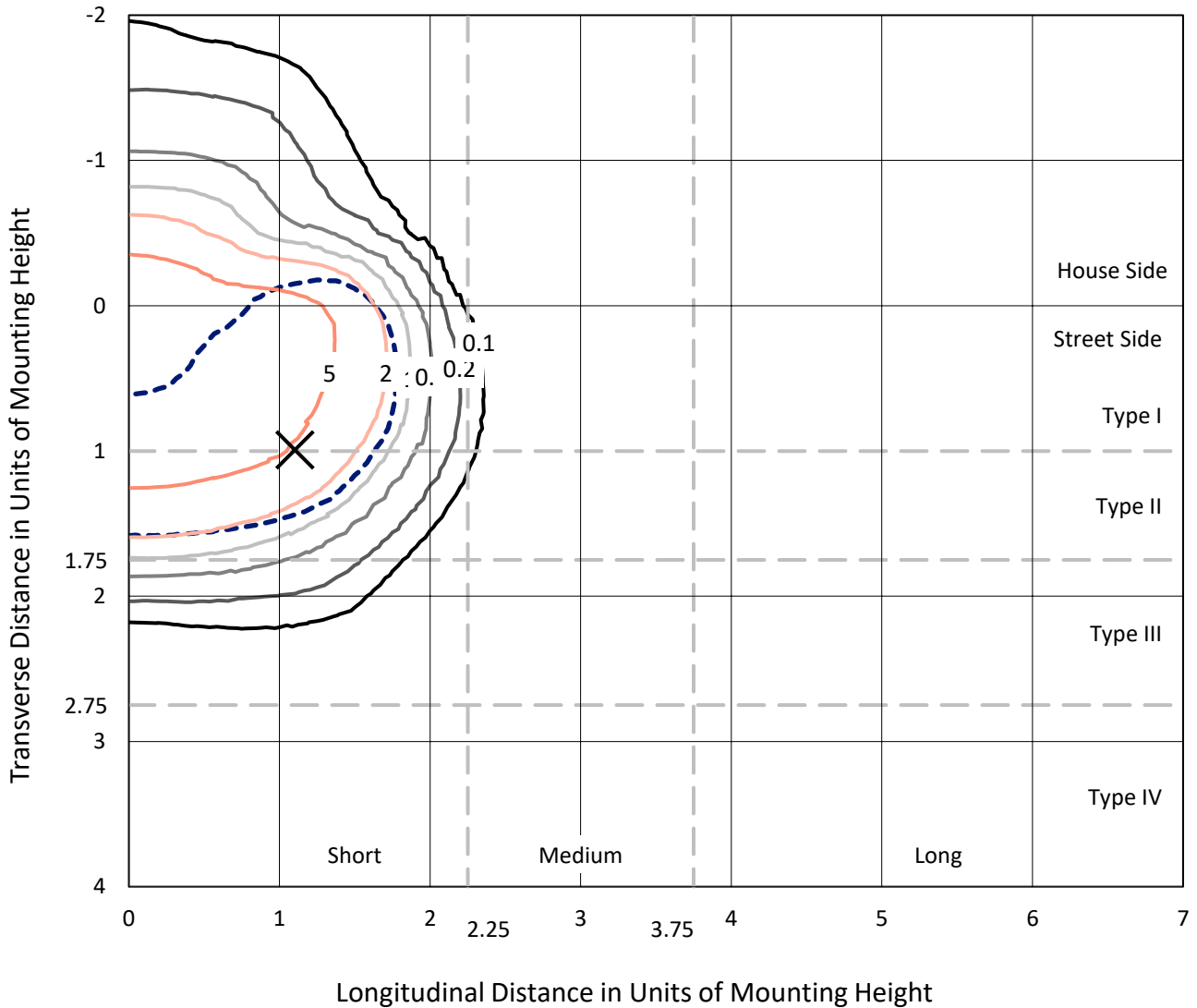
Input Watts (W): 286
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

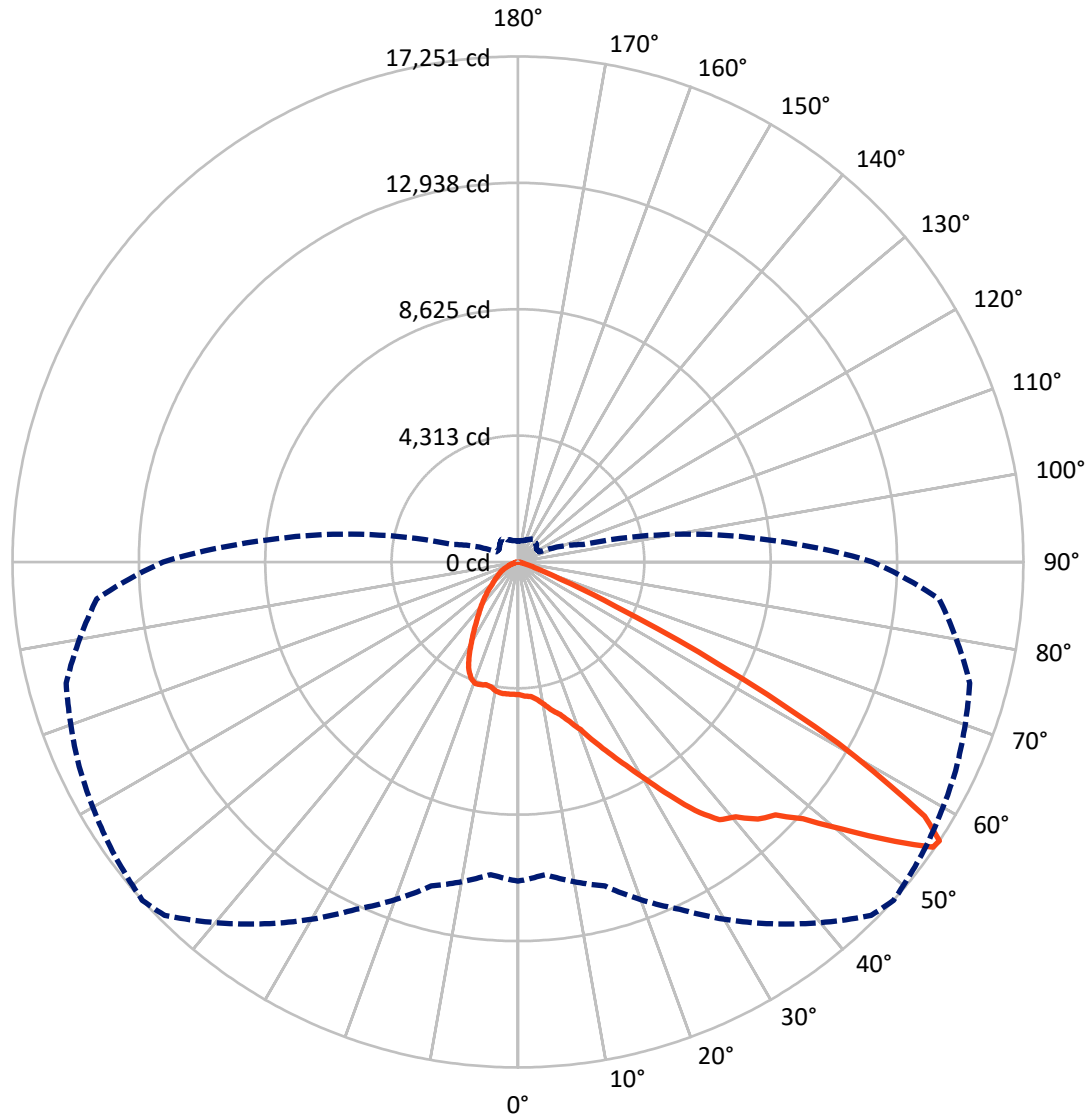
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 48-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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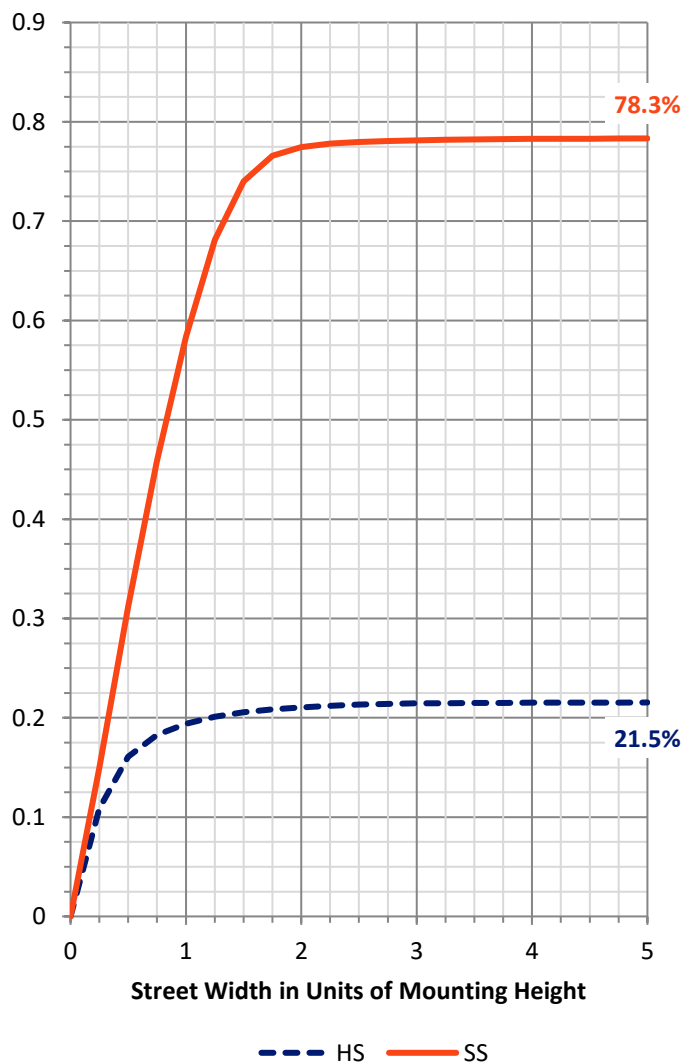
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5147.3	0.0	5147.3
	% Fixture	21.7	0.0	21.7
Street Side	Lumens	18520.7	0.0	18520.7
	% Fixture	78.3	0.0	78.3
Total	Lumens	23668.0	0.0	23668.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	440.4	1.9
10°-20°	1407.3	5.9
20°-30°	2552.6	10.8
30°-40°	4009.6	16.9
40°-50°	5849.2	24.7
50°-60°	7047.2	29.8
60°-70°	2063.3	8.7
70°-80°	261.8	1.1
80°-90°	36.7	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°	23668.0	100.0
0°-180°	23668.0	100.0

Coefficient of Utilization

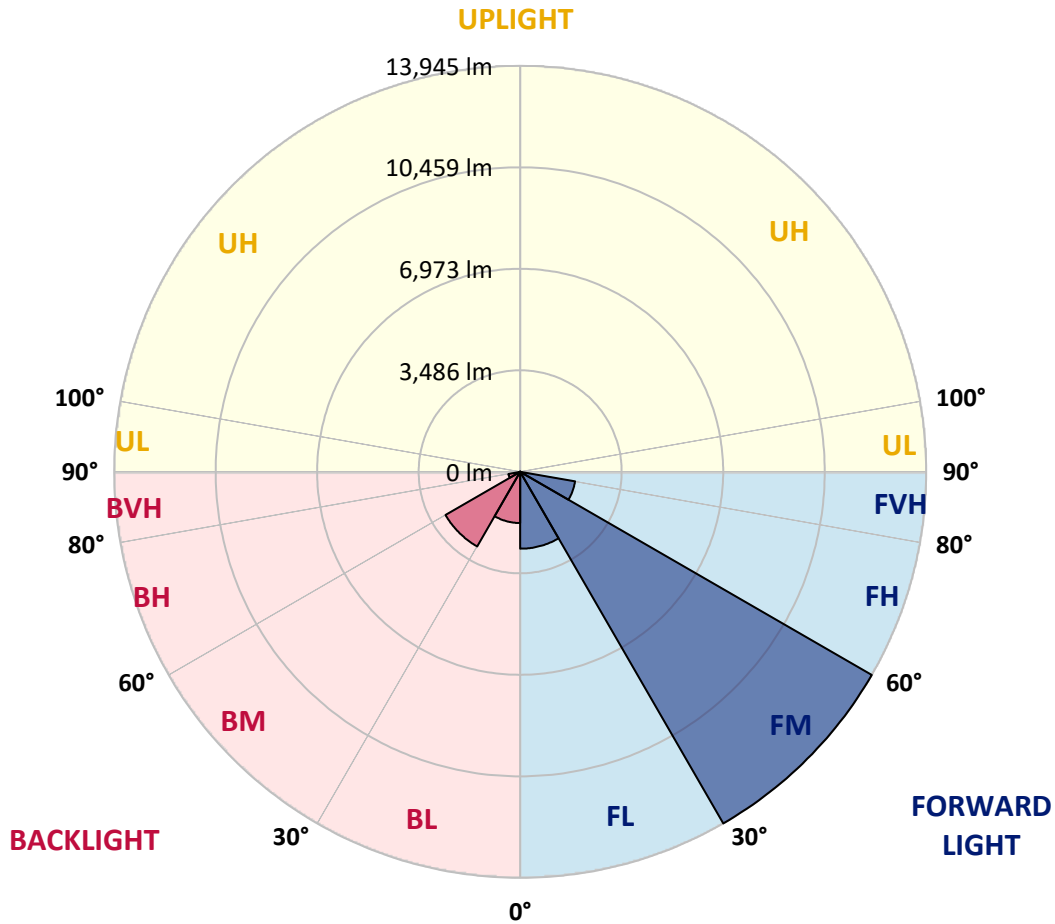


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2640.9	11.2			
FM (30°-60°)	13945.3	58.9			
FH (60°-80°)	1916.1	8.1			G2/5000
FVH (80°-90°)	18.4	0.1			G1/100
BL (0°-30°)	1759.3	7.4	B3/2500		
BM (30°-60°)	2960.7	12.5	B3/5000		
BH (60°-80°)	409.0	1.7	B1/500		G1/500
BVH (80°-90°)	18.3	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°	48°	55°	65°	75°	85°
0°	4520.6	4520.6	4520.6	4520.6	4520.6	4520.6	4520.6	4520.6	4520.6	4520.6	4520.6
2.5°	4602.5	4580.9	4580.9	4546.5	4585.2	4568.0	4580.9	4537.8	4580.9	4516.3	4568.0
5°	4624.0	4628.3	4611.1	4632.6	4632.6	4658.5	4615.4	4654.2	4675.7	4628.3	4606.8
7.5°	4736.1	4744.7	4740.4	4723.1	4757.6	4753.3	4749.0	4718.8	4727.5	4710.2	4684.4
10°	4955.9	4951.5	4973.1	4930.0	4904.1	4934.3	4942.9	4895.5	4861.0	4848.1	4766.2
12.5°	5274.7	5223.0	5192.9	5149.8	5162.7	5119.6	5197.2	5115.3	5098.1	5020.5	4938.6
15°	5533.3	5524.7	5529.0	5460.1	5382.5	5399.7	5399.7	5356.6	5330.8	5236.0	5119.6
17.5°	6063.4	5882.4	5921.2	5835.0	5770.3	5766.0	5727.2	5735.9	5666.9	5468.7	5292.0
20°	6477.1	6399.5	6339.2	6192.7	6093.5	6123.7	6106.5	6063.4	6041.8	5783.3	5533.3
22.5°	6847.7	6873.6	6774.4	6735.6	6597.7	6610.7	6645.2	6606.4	6442.6	6175.4	5804.8
25°	7369.1	7339.0	7205.4	7158.0	7028.7	7076.1	7209.7	7179.5	7076.1	6593.4	6016.0
27.5°	7985.4	7882.0	7907.8	7692.3	7567.4	7701.0	7860.4	8011.2	7718.2	7084.7	6265.9
30°	8420.6	8312.9	8304.3	8295.7	8265.5	8420.6	8605.9	8743.8	8506.8	7576.0	6679.6
32.5°	8636.1	8662.0	8735.2	8709.4	8972.2	9291.1	9485.1	9683.3	9386.0	8377.5	7226.9
35°	9209.3	9045.5	9209.3	9226.5	9498.0	10174.6	10420.2	10894.3	10821.0	9510.9	7894.9
37.5°	9545.4	9532.5	9554.0	9717.8	9980.7	10816.7	11165.7	11532.1	11394.1	10191.8	8726.6
40°	10101.3	10135.8	10131.5	10256.5	10545.2	11299.3	11441.6	11738.9	11751.8	11135.6	9950.5
42.5°	10993.4	10855.5	10765.0	10894.3	11299.3	11717.4	12001.8	11941.4	12368.1	12281.9	11523.4
45°	11794.9	11876.8	11743.2	11958.7	12105.2	12329.3	12320.7	12450.0	12992.9	13402.3	12708.5
47.5°	12544.8	12596.5	12661.1	12807.6	13126.5	13161.0	13087.8	13031.7	13781.6	14203.9	13626.4
50°	12992.9	13040.4	13342.0	13604.9	14199.6	14277.2	14320.3	14178.0	14686.6	14734.0	14492.6
52.5°	12872.3	12924.0	13346.3	14212.5	15160.6	15871.7	15742.4	15501.0	15470.9	15656.2	15294.2
55°	11803.5	11756.1	12337.9	13686.8	15462.3	17168.8	17186.0	16931.8	16444.8	16319.8	15173.5
56°	10894.3	10708.9	11450.2	13079.1	15074.4	17056.7	17250.7	16979.2	16522.4	15962.2	14428.0
57.5°	8924.8	9101.5	9838.4	11187.3	13734.2	16250.9	16362.9	16298.3	15953.5	15014.1	12695.6
60°	4921.4	5231.7	5882.4	7532.9	9778.1	12471.5	12562.0	13087.8	13152.4	11497.6	8735.2
62.5°	2090.1	2055.6	2732.2	3947.4	5567.8	7528.6	7696.7	8235.3	8334.4	6627.9	4382.7
65°	849.0	896.4	1236.8	1986.6	2943.3	3430.3	3667.3	3844.0	4171.5	2736.5	1616.0
67.5°	560.2	555.9	728.3	1133.4	1585.9	1529.8	1529.8	1616.0	1495.4	1116.1	698.1
70°	400.8	413.7	521.4	784.3	986.9	732.6	702.4	672.3	762.8	736.9	564.5
72.5°	262.9	280.1	349.1	469.7	512.8	400.8	400.8	482.7	629.2	594.7	461.1
75°	172.4	176.7	215.5	271.5	254.3	206.9	228.4	323.2	456.8	439.6	327.5
77.5°	116.4	120.7	146.5	176.7	142.2	116.4	125.0	163.8	224.1	224.1	172.4
80°	43.1	47.4	60.3	56.0	64.6	81.9	90.5	112.0	133.6	133.6	116.4
82.5°	0.0	4.3	12.9	30.2	47.4	64.6	73.3	86.2	99.1	112.0	107.7
85°	0.0	4.3	12.9	21.5	34.5	38.8	43.1	30.2	25.9	25.9	21.5
87.5°	0.0	0.0	4.3	4.3	4.3	4.3	4.3	4.3	8.6	4.3	4.3
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°	4520.6	4520.6	4520.6	4520.6	4520.6	4520.6	4520.6	4520.6	4520.6	4520.6	4520.6
2.5°	4520.6	4516.3	4516.3	4503.4	4529.2	4516.3	4524.9	4520.6	4464.6	4507.7	4477.5
5°	4568.0	4598.2	4550.8	4542.1	4507.7	4520.6	4520.6	4477.5	4516.3	4512.0	4503.4
7.5°	4688.7	4637.0	4585.2	4533.5	4524.9	4512.0	4464.6	4447.3	4477.5	4443.0	4494.7
10°	4740.4	4749.0	4671.4	4602.5	4537.8	4447.3	4382.7	4343.9	4296.5	4348.2	4378.4
12.5°	4977.4	4891.2	4757.6	4649.9	4430.1	4339.6	4275.0	4257.7	4339.6	4356.8	4326.7
15°	5059.3	5046.3	4874.0	4632.6	4404.2	4296.5	4309.4	4275.0	4283.6	4240.5	4249.1
17.5°	5227.3	5080.8	4878.3	4576.6	4399.9	4374.1	4296.5	4158.6	4081.0	4046.6	4076.7
20°	5412.7	5270.4	4977.4	4598.2	4438.7	4369.8	4115.5	3947.4	3788.0	3701.8	3706.1
22.5°	5576.4	5399.7	4934.3	4606.8	4473.2	4188.8	3882.8	3551.0	3352.7	3219.1	3223.5
25°	5774.6	5524.7	4951.5	4624.0	4382.7	3900.0	3460.5	3137.3	2900.3	2809.8	2839.9
27.5°	5886.7	5602.3	5046.3	4662.8	4145.7	3490.6	3016.6	2714.9	2577.0	2533.9	2529.6
30°	6222.8	5774.6	5162.7	4585.2	3749.2	3051.1	2611.5	2426.2	2292.6	2253.8	2262.5
32.5°	6722.7	6089.2	5313.5	4382.7	3344.1	2658.9	2348.6	2210.7	2085.8	2012.5	2003.9
35°	7140.7	6627.9	5473.0	4068.1	2874.4	2357.3	2163.3	1991.0	1801.3	1719.5	1697.9
37.5°	7938.0	7235.5	5438.5	3594.1	2426.2	2133.2	1965.1	1753.9	1590.2	1478.1	1465.2
40°	8998.1	7946.6	5270.4	3016.6	2094.4	1934.9	1753.9	1551.4	1348.9	1254.0	1245.4
42.5°	10286.6	8817.1	4964.5	2430.5	1762.6	1736.7	1572.9	1340.2	1159.2	1090.3	1094.6
45°	11333.8	9562.6	4654.2	1952.2	1516.9	1542.8	1400.6	1180.8	1055.8	999.8	999.8
47.5°	12264.7	10066.8	4318.1	1611.7	1288.5	1348.9	1223.9	1094.6	986.9	943.8	935.1
50°	13161.0	10579.7	3981.9	1305.8	1098.9	1159.2	1146.3	1042.9	956.7	905.0	909.3
52.5°	13721.2	10661.5	3555.3	1068.7	961.0	1030.0	1073.0	978.2	883.4	853.3	844.6
55°	13036.0	9605.7	2758.0	879.1	814.5	905.0	986.9	879.1	805.9	754.2	749.8
56°	12113.8	8588.7	2305.5	810.2	771.4	870.5	956.7	840.3	758.5	728.3	706.7
57.5°	10256.5	7028.7	1702.2	719.7	715.4	810.2	909.3	801.6	706.7	680.9	680.9
60°	6395.2	3956.1	1030.0	603.3	620.6	719.7	818.8	715.4	629.2	629.2	642.1
62.5°	2913.2	1646.2	624.9	512.8	534.4	620.6	728.3	646.4	599.0	646.4	655.0
65°	991.2	711.1	452.5	409.4	422.3	512.8	624.9	655.0	650.7	680.9	698.1
67.5°	555.9	456.8	379.2	340.4	331.8	379.2	512.8	655.0	629.2	616.2	624.9
70°	469.7	387.8	336.1	301.7	288.7	306.0	396.5	495.6	443.9	430.9	422.3
72.5°	379.2	323.2	293.0	271.5	232.7	198.2	181.0	189.6	211.2	224.1	245.6
75°	267.2	245.6	245.6	219.8	168.1	125.0	99.1	81.9	56.0	38.8	43.1
77.5°	150.8	150.8	155.1	133.6	107.7	81.9	60.3	43.1	21.5	8.6	4.3
80°	103.4	112.0	120.7	107.7	90.5	73.3	51.7	30.2	12.9	0.0	0.0
82.5°	103.4	116.4	125.0	107.7	90.5	69.0	51.7	30.2	12.9	4.3	0.0
85°	21.5	25.9	30.2	34.5	51.7	51.7	38.8	25.9	12.9	4.3	0.0
87.5°	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	0.0	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)