

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: P531990

Luminaire Tested: **GALN-SA7B-740-U-T3R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531990
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-12)
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-T3R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34598 lumens
Efficiency: N/A
Efficacy: 121.0 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

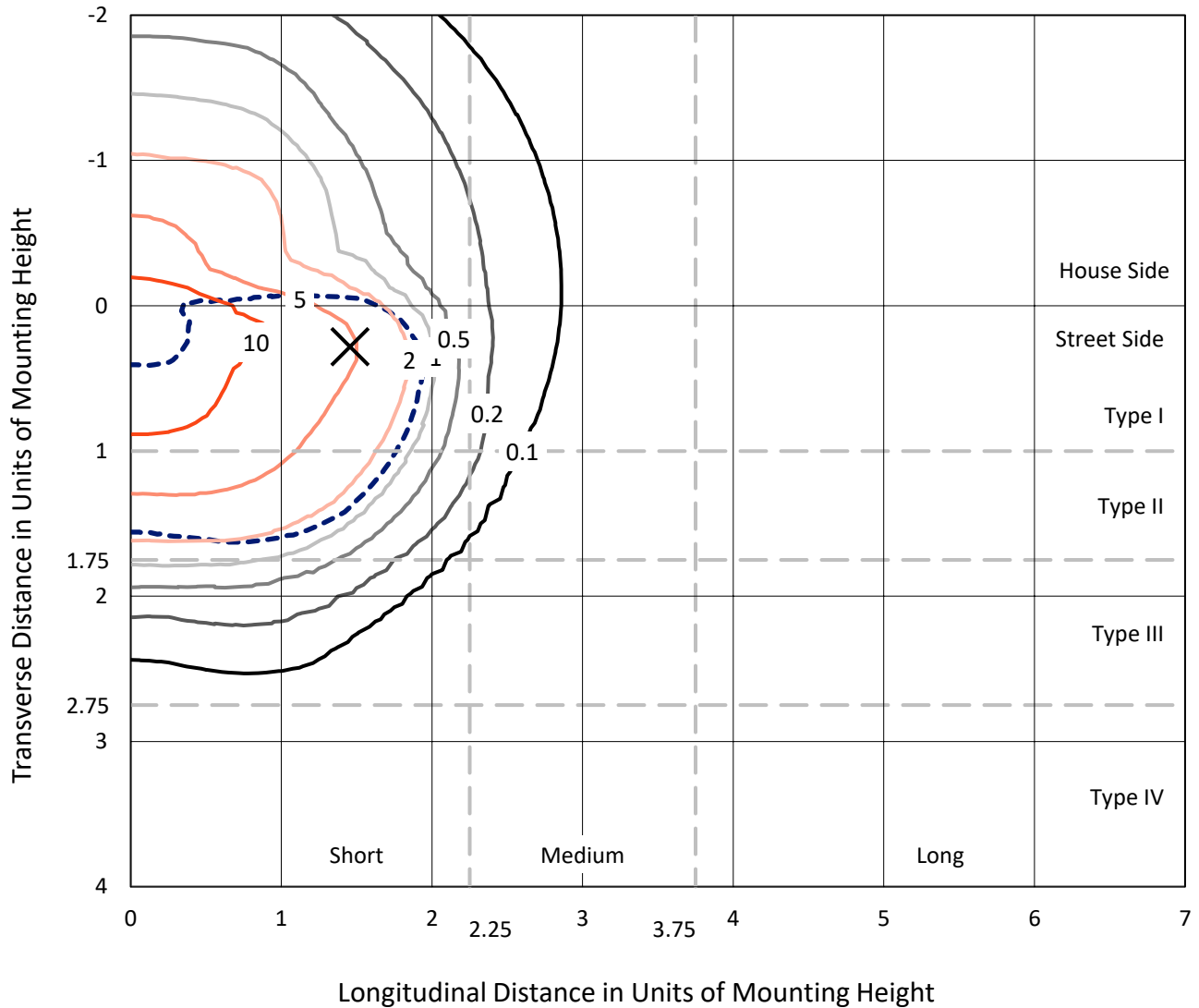
Input Watts (W): 286
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P531990
 CATALOG NUMBER: GALN-SA7B-740-U-T3R-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

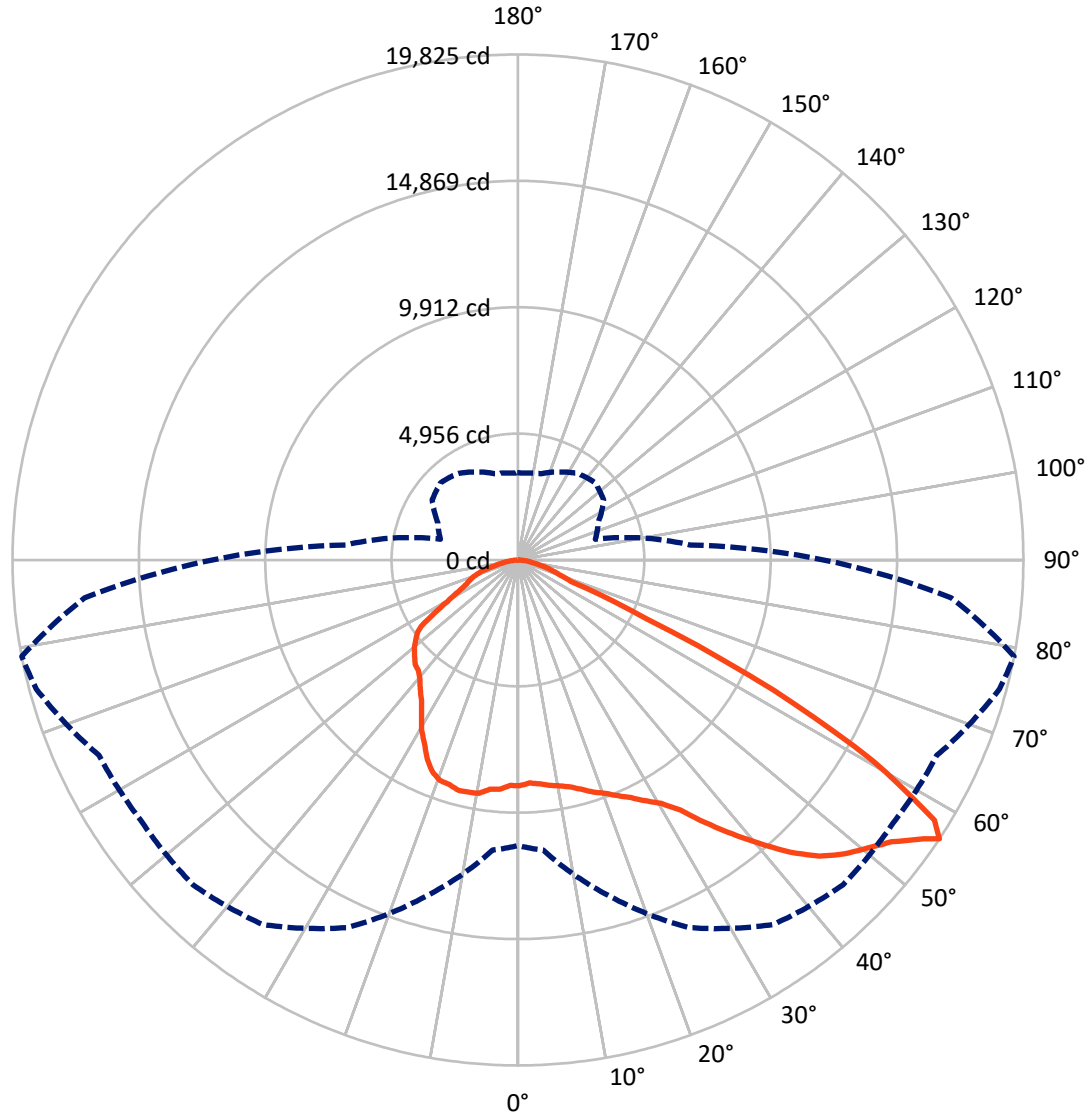
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.2 fc
 Type II - Short - N/A

REPORT NUMBER: P531990
CATALOG NUMBER: GALN-SA7B-740-U-T3R-GRSWH

Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

REPORT NUMBER: P531990
 CATALOG NUMBER: GALN-SA7B-740-U-T3R-GRSWH

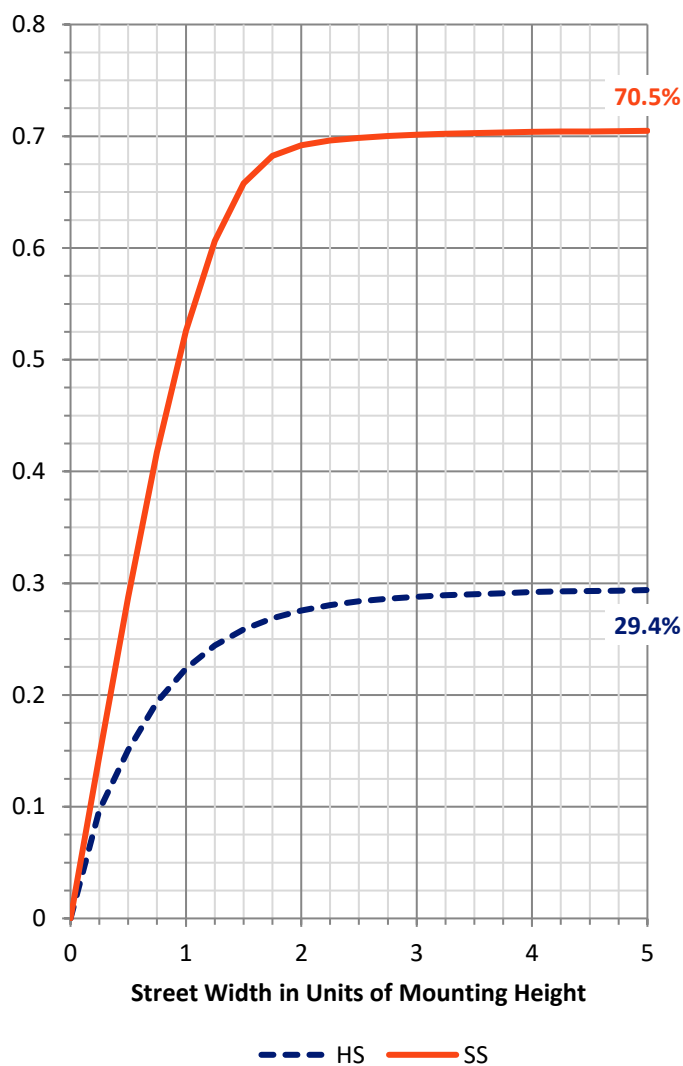
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10217.5	0.0	10217.5
	% Fixture	29.5	0.0	29.5
Street Side	Lumens	24380.5	0.0	24380.5
	% Fixture	70.5	0.0	70.5
Total	Lumens	34598.0	0.0	34598.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	804.8	2.3
10°-20°	2202.6	6.4
20°-30°	3768.3	10.9
30°-40°	5775.3	16.7
40°-50°	7805.3	22.6
50°-60°	8964.7	25.9
60°-70°	4086.4	11.8
70°-80°	1007.5	2.9
80°-90°	183.1	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°	34598.0	100.0
0°-180°	34598.0	100.0

Coefficient of Utilization



REPORT NUMBER: P531990

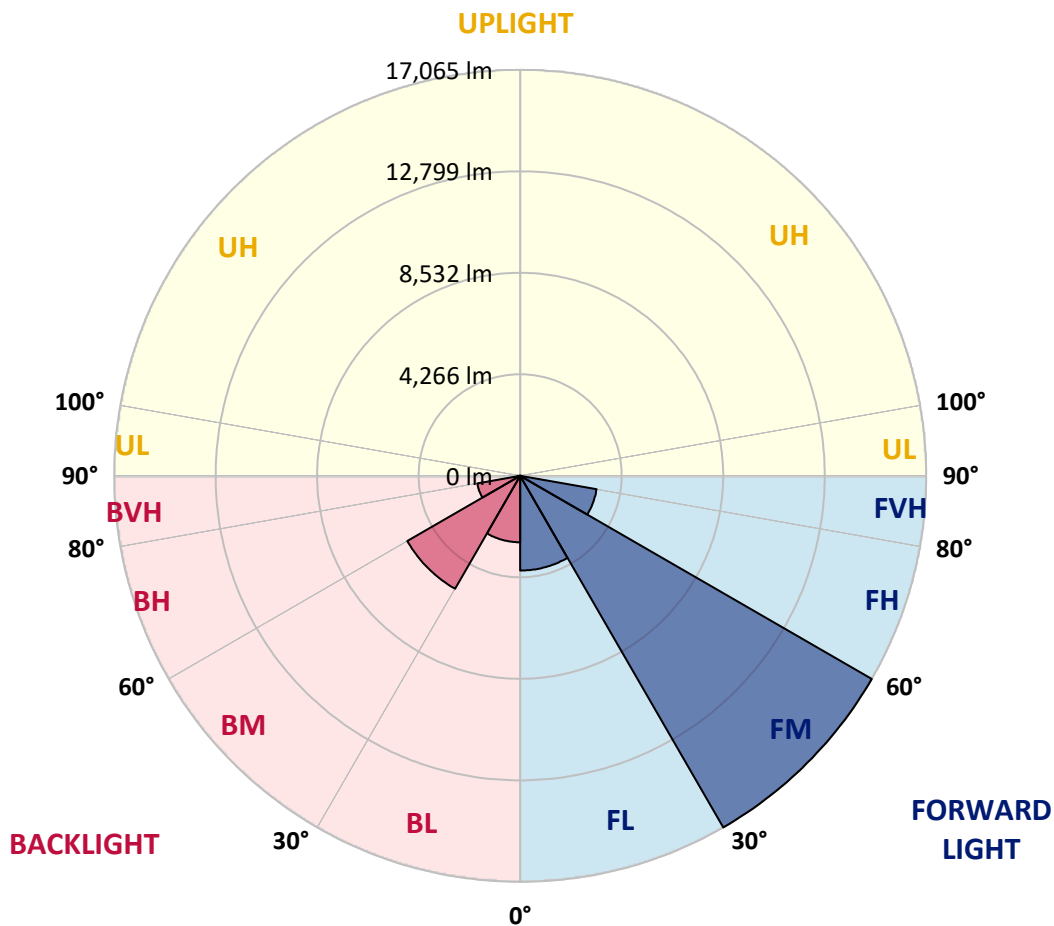
CATALOG NUMBER: GALN-SA7B-740-U-T3R-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3980.8	11.5			
FM (30°-60°)	17064.8	49.3			
FH (60°-80°)	3261.8	9.4			G2/5000
FVH (80°-90°)	73.1	0.2			G1/100
BL (0°-30°)	2794.9	8.1	B4/5000		
BM (30°-60°)	5480.6	15.8	B4/8500		
BH (60°-80°)	1832.1	5.3	B3/2500		G3/2500
BVH (80°-90°)	110.0	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





REPORT NUMBER: P531990

CATALOG NUMBER: GALN-SA7B-740-U-T3R-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	8852.3	8852.3	8852.3	8852.3	8852.3	8852.3	8852.3	8852.3	8852.3	8852.3	8852.3
2.5°	8421.3	8399.7	8451.4	8490.2	8537.6	8598.0	8628.2	8645.4	8796.2	8757.4	8873.8
5°	8240.3	8184.2	8223.0	8253.2	8335.1	8408.4	8490.2	8619.5	8757.4	8817.8	8960.0
7.5°	8080.8	8050.6	8042.0	8063.6	8175.6	8270.4	8412.7	8602.3	8826.4	8925.5	9007.4
10°	7817.9	7774.8	7839.5	7981.7	8011.9	8210.1	8373.9	8645.4	8839.3	9011.7	9253.1
12.5°	7701.6	7658.5	7671.4	7753.3	7964.4	8154.1	8348.0	8654.0	9063.4	9132.4	9455.6
15°	7886.9	7843.8	7856.7	7835.2	8037.7	8136.8	8442.8	8826.4	9218.6	9335.0	9679.7
17.5°	8309.2	8313.5	8257.5	8210.1	8162.7	8373.9	8585.1	8929.8	9278.9	9572.0	9830.6
20°	9115.2	8972.9	8860.9	8593.7	8520.4	8610.9	8878.1	9210.0	9524.6	9765.9	10059.0
22.5°	9735.8	9748.7	9589.2	9149.6	8990.2	9029.0	9257.4	9528.9	9873.7	10046.1	10382.2
25°	10636.5	10546.0	10373.6	10024.5	9666.8	9697.0	9865.1	10110.7	10205.5	10326.2	10692.5
27.5°	11459.7	11485.5	11145.1	10817.5	10373.6	10287.4	10589.1	10632.2	10472.7	10701.1	10826.1
30°	12295.8	12274.2	12050.1	11666.5	11231.2	11248.5	11382.1	11170.9	10951.1	11076.1	11162.3
32.5°	13162.0	12916.4	12907.7	12563.0	12231.1	12071.7	11907.9	12011.3	11670.8	11696.7	11614.8
35°	13855.9	13890.4	13692.1	13446.5	13282.7	13002.6	12554.3	12739.7	12675.0	12644.9	12291.5
37.5°	14360.1	14226.5	14325.7	14243.8	14088.6	13739.5	13274.1	13450.8	13480.9	13627.5	13218.1
40°	14773.9	14717.8	14980.7	15023.8	14916.1	14161.9	13325.8	13851.6	14304.1	14623.0	14136.0
42.5°	14972.1	15092.8	15368.6	15700.5	15459.1	14653.2	13593.0	14157.6	15166.1	15670.3	15006.6
45°	15239.3	15084.2	15493.6	16101.3	16105.6	15066.9	13851.6	14571.3	15838.4	16571.0	15601.4
47.5°	14967.8	15045.4	15467.7	16239.2	16437.4	15502.2	14549.8	15157.4	16579.7	17230.4	16153.0
50°	14360.1	14515.3	15286.7	16088.4	16687.4	15963.4	15351.4	15791.0	17264.9	17760.5	16243.5
52.5°	13726.6	13812.8	15019.5	16204.7	16799.5	16558.1	16424.5	16665.9	18101.0	18359.6	16355.6
55°	12002.7	12412.1	14136.0	16153.0	17346.8	17631.3	17527.8	17881.2	19049.2	19307.7	16967.5
56°	11205.4	11420.9	13605.9	15911.7	17454.5	18023.4	17971.7	18131.2	19553.4	19824.9	17062.4
57.5°	9731.5	9748.7	11601.9	14842.8	17049.4	18139.8	18088.1	18213.1	19454.3	19269.0	16230.6
60°	6089.7	6356.9	7895.5	11416.6	14498.1	16829.6	17122.7	16118.5	16403.0	16010.8	12627.6
62.5°	3154.7	3116.0	4137.4	6675.8	9623.7	12050.1	12321.6	12274.2	11834.6	11261.4	8248.9
65°	1573.1	1581.7	2163.5	3305.6	4930.4	6309.5	7068.0	7149.9	5982.0	5503.6	3913.3
67.5°	1142.1	1185.2	1555.8	2021.3	2323.0	2598.8	3184.9	3124.6	2366.1	2249.7	2085.9
70°	887.8	926.6	1262.8	1542.9	1400.7	1400.7	1525.7	1577.4	1685.1	1732.5	1788.6
72.5°	646.5	676.6	965.4	1064.5	918.0	986.9	1142.1	1262.8	1374.8	1392.1	1456.7
75°	443.9	469.8	633.5	586.1	551.6	680.9	836.1	948.1	1030.0	1073.1	1111.9
77.5°	288.8	297.4	362.0	306.0	353.4	439.6	543.0	637.8	719.7	754.2	762.8
80°	129.3	142.2	155.2	193.9	245.7	314.6	387.9	465.5	517.2	530.1	556.0
82.5°	73.3	73.3	94.8	137.9	181.0	228.4	280.1	336.2	396.5	409.4	405.1
85°	38.8	38.8	56.0	81.9	112.1	133.6	129.3	133.6	142.2	163.8	159.5
87.5°	12.9	12.9	17.2	17.2	21.5	25.9	21.5	30.2	38.8	38.8	38.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P531990

CATALOG NUMBER: GALN-SA7B-740-U-T3R-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	8852.3	8852.3	8852.3	8852.3	8852.3	8852.3	8852.3	8852.3	8852.3	8852.3	8852.3
2.5°	8839.3	8878.1	8826.4	8938.5	8938.5	8916.9	8809.2	8843.6	8869.5	8869.5	8891.0
5°	9007.4	8994.5	9029.0	8895.4	8813.5	8783.3	8606.6	8520.4	8447.1	8442.8	8378.2
7.5°	9102.2	9067.7	9054.8	8955.7	8593.7	8373.9	7994.6	7774.8	7727.4	7559.3	7624.0
10°	9253.1	9317.7	9253.1	8714.3	8210.1	7705.9	7335.2	6994.7	6861.1	6753.4	6688.8
12.5°	9563.4	9533.2	9158.3	8429.9	7723.1	7124.0	6572.4	6214.7	6081.1	5986.3	5977.6
15°	9826.3	9675.4	9102.2	7981.7	6964.6	6326.7	5874.2	5619.9	5559.6	5568.2	5607.0
17.5°	9916.8	9813.3	8809.2	7516.2	6400.0	5650.1	5438.9	5400.1	5456.2	5520.8	5538.0
20°	10059.0	9895.2	8688.5	6882.7	5701.8	5227.7	5214.8	5352.7	5456.2	5551.0	5563.9
22.5°	10356.4	9942.6	8296.3	6283.6	5223.4	5102.8	5227.7	5344.1	5503.6	5581.1	5512.2
25°	10442.6	9839.2	7744.6	5563.9	4921.8	5025.2	5158.8	5318.3	5430.3	5473.4	5503.6
27.5°	10515.8	9679.7	6999.1	5085.5	4826.9	5020.9	5158.8	5292.4	5352.7	5391.5	5426.0
30°	10722.7	9632.3	6352.6	4766.6	4766.6	4934.7	5111.4	5145.9	5227.7	5275.2	5335.5
32.5°	10826.1	9304.8	5688.9	4564.0	4706.3	4977.8	4990.7	5055.4	5059.7	5098.5	5033.8
35°	11097.6	9072.1	5072.6	4417.5	4732.1	4934.7	4999.3	4960.5	4749.4	4645.9	4667.5
37.5°	11295.9	8955.7	4628.7	4400.3	4736.4	4982.1	5016.6	4723.5	4503.7	4331.3	4374.4
40°	11830.3	8666.9	4292.5	4370.1	4775.2	5033.8	4939.0	4620.1	4223.6	4046.9	4016.7
42.5°	12239.7	8460.1	4081.3	4335.6	4805.4	5107.1	4900.2	4413.2	4008.1	3844.3	3887.4
45°	12713.8	8412.7	3969.3	4344.2	4857.1	5145.9	4852.8	4253.7	3822.8	3758.1	3745.2
47.5°	12881.9	8072.2	3848.6	4271.0	4844.2	5132.9	4693.3	4133.1	3753.8	3762.4	3796.9
50°	12601.8	7723.1	3758.1	4120.1	4758.0	5016.6	4443.4	3973.6	3715.0	3822.8	3883.1
52.5°	12244.0	7365.4	3572.8	3917.6	4581.3	4835.6	4327.0	3965.0	3676.2	3641.8	3654.7
55°	12351.8	7072.3	3314.2	3641.8	4296.8	4499.4	4197.7	3883.1	3581.4	3452.1	3495.2
56°	12002.7	6770.6	3146.1	3469.4	4102.9	4283.9	4133.1	3809.8	3503.8	3417.6	3417.6
57.5°	11015.8	5757.8	2926.3	3193.5	3693.5	3909.0	4008.1	3766.7	3417.6	3266.8	3271.1
60°	8123.9	4094.3	2624.6	2814.3	3059.9	3232.3	3693.5	3646.1	3202.2	3098.7	3059.9
62.5°	5007.9	2991.0	2409.2	2482.4	2607.4	2749.6	3223.7	3301.3	2973.7	2861.7	2835.8
65°	2805.7	2288.5	2245.4	2275.6	2335.9	2409.2	2676.4	2848.8	2624.6	2452.3	2443.6
67.5°	2051.4	2047.1	2081.6	2107.5	2133.3	2133.3	2198.0	2266.9	2236.8	2098.9	2085.9
70°	1823.0	1836.0	1861.8	1866.1	1874.7	1844.6	1792.9	1771.3	1805.8	1719.6	1702.4
72.5°	1504.1	1547.2	1577.4	1581.7	1534.3	1495.5	1426.5	1353.3	1327.4	1310.2	1305.9
75°	1155.0	1185.2	1198.1	1193.8	1176.6	1120.5	1038.7	965.4	918.0	866.3	892.1
77.5°	780.1	823.2	844.7	844.7	818.9	732.7	693.9	637.8	590.4	534.4	543.0
80°	547.3	577.5	612.0	607.7	564.6	521.5	465.5	413.7	374.9	331.9	327.5
82.5°	409.4	426.7	443.9	435.3	405.1	362.0	323.2	275.8	232.7	202.6	202.6
85°	146.5	159.5	193.9	202.6	219.8	219.8	185.3	155.2	125.0	103.4	103.4
87.5°	43.1	43.1	47.4	47.4	43.1	47.4	38.8	43.1	47.4	30.2	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

(END OF REPORT)