

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: P531701

Luminaire Tested: **GALN-SA7A-730-U-T3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531701
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-SA7A-730-U-T3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3000K, 615mA 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: 17323 lumens
Efficiency: N/A
Efficacy: 80.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

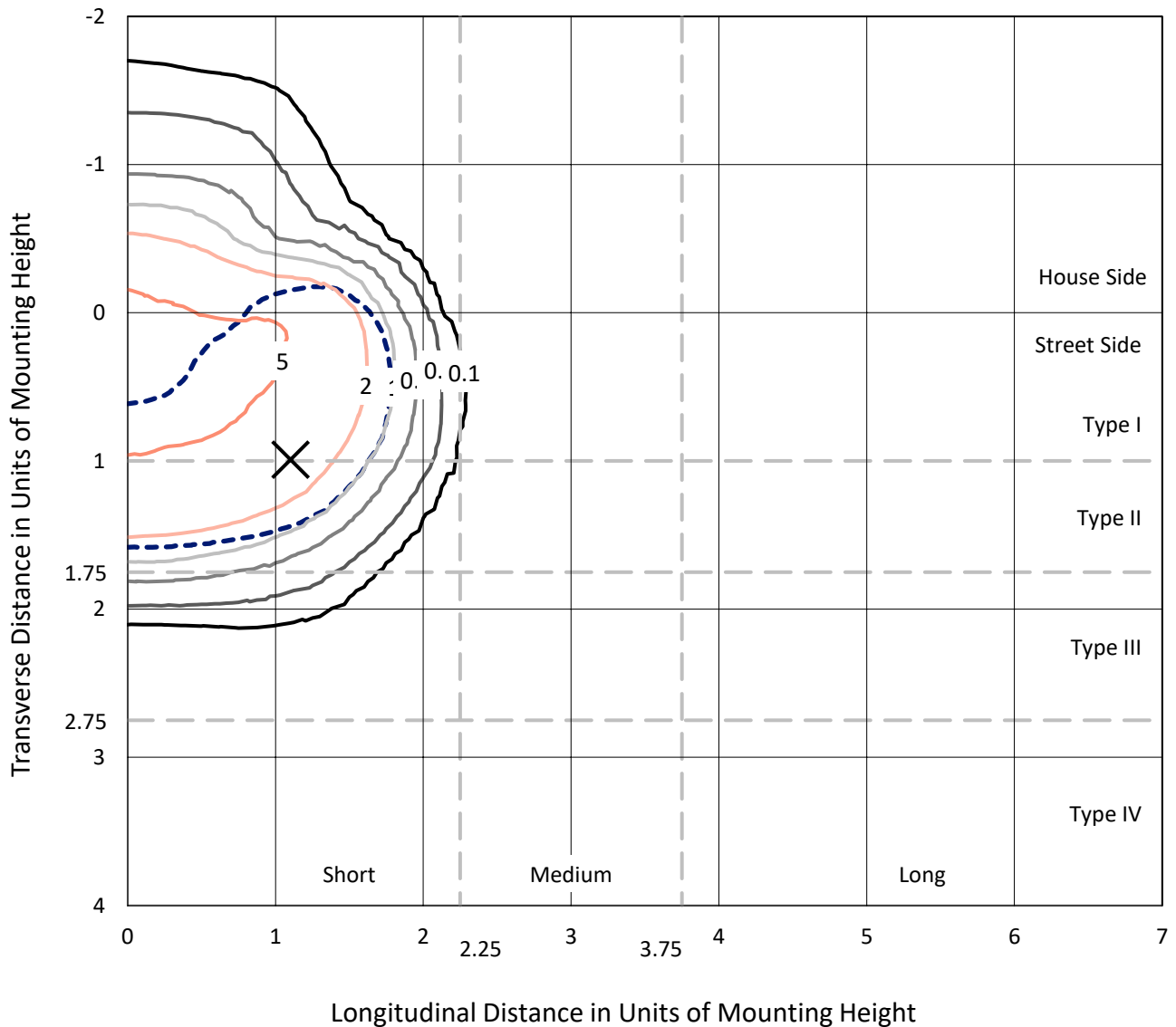
Input Watts (W): 215
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

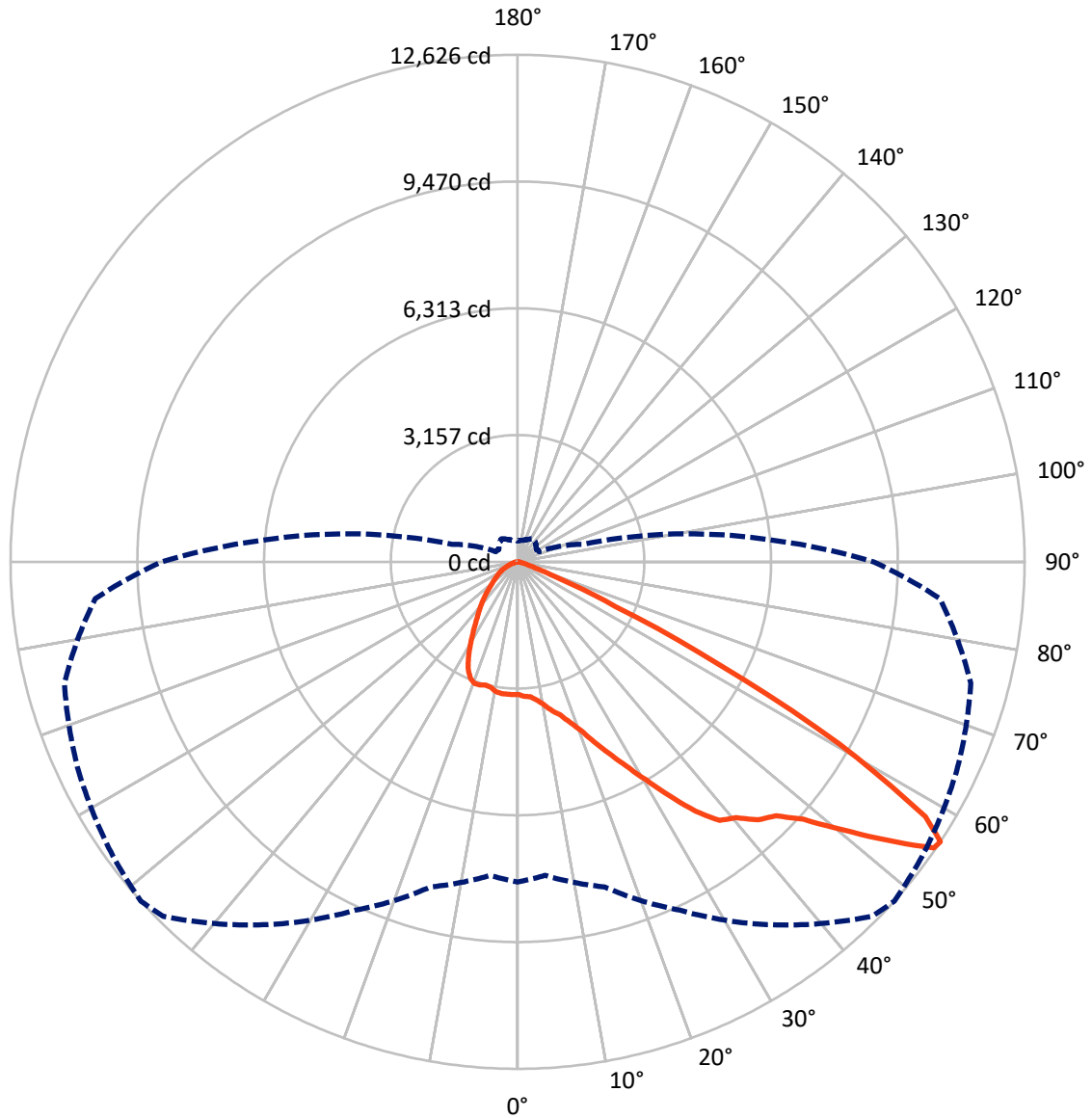
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.9 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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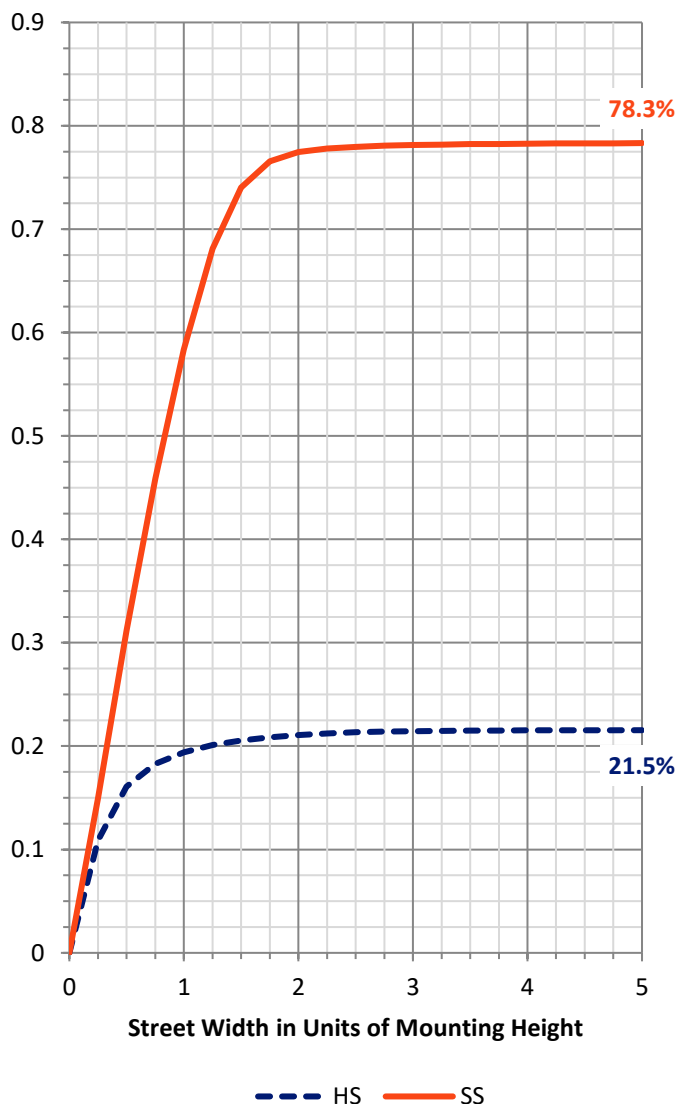
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3767.4	0.0	3767.4
	% Fixture	21.7	0.0	21.7
Street Side	Lumens	13555.6	0.0	13555.6
	% Fixture	78.3	0.0	78.3
Total	Lumens	17323.0	0.0	17323.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	322.3	1.9
10°-20°	1030.0	5.9
20°-30°	1868.3	10.8
30°-40°	2934.7	16.9
40°-50°	4281.1	24.7
50°-60°	5158.0	29.8
60°-70°	1510.2	8.7
70°-80°	191.6	1.1
80°-90°	26.9	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°	17323.0	100.0
0°-180°	17323.0	100.0

Coefficient of Utilization



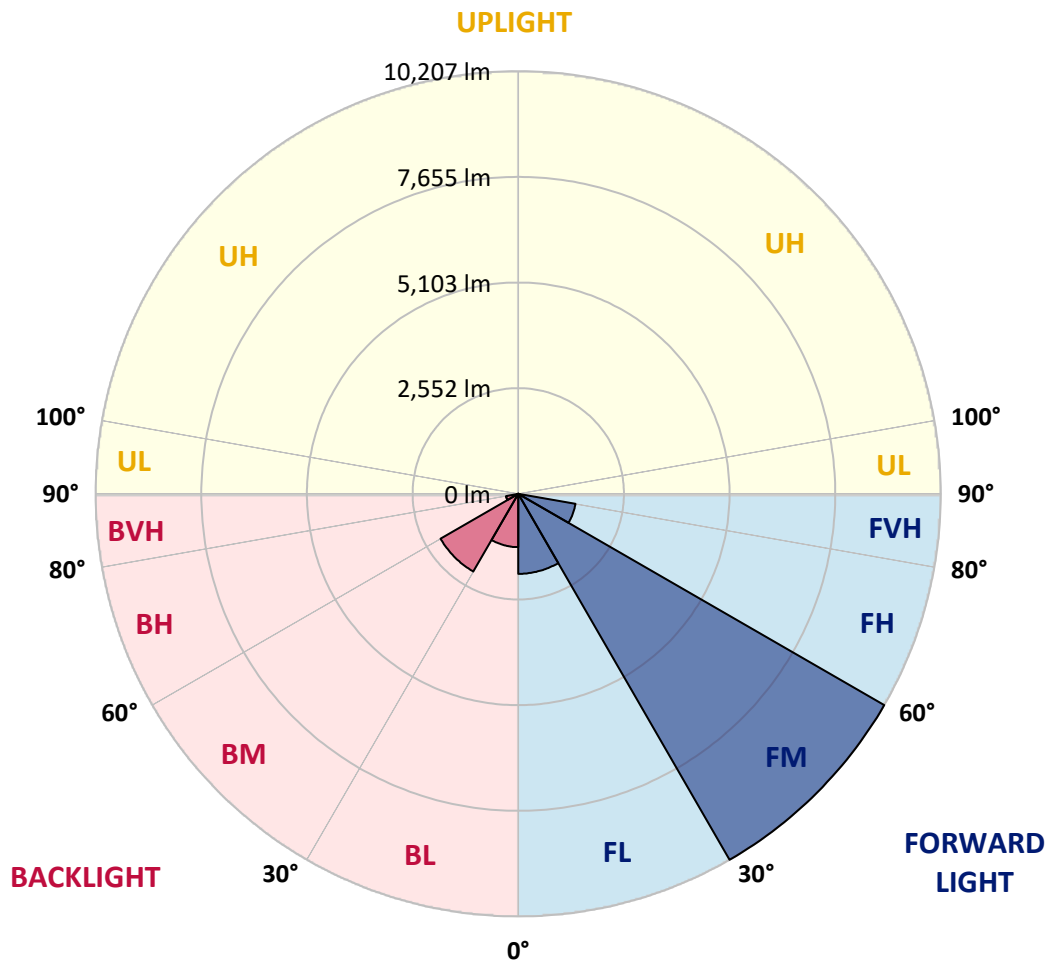
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1932.9	11.2			
FM (30°-60°)	10206.8	58.9			
FH (60°-80°)	1402.4	8.1			G1/1800
FVH (80°-90°)	13.5	0.1			G1/100
BL (0°-30°)	1287.7	7.4	B3/2500		
BM (30°-60°)	2167.0	12.5	B2/2500		
BH (60°-80°)	299.4	1.7	B1/500		G1/500
BVH (80°-90°)	13.4	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-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	48°	55°	65°	75°	85°
0°	3308.7	3308.7	3308.7	3308.7	3308.7	3308.7	3308.7	3308.7	3308.7	3308.7	3308.7
2.5°	3368.6	3352.9	3352.9	3327.6	3356.0	3343.4	3352.9	3321.3	3352.9	3305.5	3343.4
5°	3384.4	3387.6	3374.9	3390.7	3390.7	3409.6	3378.1	3406.5	3422.2	3387.6	3371.8
7.5°	3466.4	3472.7	3469.6	3456.9	3482.2	3479.0	3475.9	3453.8	3460.1	3447.5	3428.6
10°	3627.3	3624.1	3639.9	3608.3	3589.4	3611.5	3617.8	3583.1	3557.9	3548.4	3488.5
12.5°	3860.7	3822.8	3800.7	3769.2	3778.7	3747.1	3803.9	3744.0	3731.4	3674.6	3614.7
15°	4049.9	4043.6	4046.8	3996.3	3939.5	3952.1	3952.1	3920.6	3901.7	3832.3	3747.1
17.5°	4437.9	4305.4	4333.8	4270.7	4223.4	4220.2	4191.9	4198.2	4147.7	4002.6	3873.3
20°	4740.7	4683.9	4639.8	4532.5	4460.0	4482.0	4469.4	4437.9	4422.1	4232.9	4049.9
22.5°	5011.9	5030.9	4958.3	4929.9	4829.0	4838.5	4863.7	4835.3	4715.5	4519.9	4248.6
25°	5393.6	5371.5	5273.7	5239.0	5144.4	5179.1	5276.9	5254.8	5179.1	4825.8	4403.2
27.5°	5844.6	5768.9	5787.9	5630.2	5538.7	5636.5	5753.2	5863.6	5649.1	5185.4	4586.1
30°	6163.2	6084.4	6078.0	6071.7	6049.7	6163.2	6298.8	6399.8	6226.3	5545.0	4888.9
32.5°	6320.9	6339.8	6393.5	6374.5	6566.9	6800.3	6942.3	7087.4	6869.7	6131.7	5289.5
35°	6740.4	6620.6	6740.4	6753.0	6951.7	7446.9	7626.7	7973.7	7920.1	6961.2	5778.4
37.5°	6986.4	6977.0	6992.7	7112.6	7305.0	7916.9	8172.4	8440.5	8339.6	7459.6	6387.1
40°	7393.3	7418.6	7415.4	7506.9	7718.2	8270.2	8374.3	8591.9	8601.4	8150.3	7282.9
42.5°	8046.2	7945.3	7879.1	7973.7	8270.2	8576.1	8784.3	8740.1	9052.4	8989.3	8434.2
45°	8632.9	8692.8	8595.1	8752.8	8860.0	9024.0	9017.7	9112.3	9509.8	9809.4	9301.6
47.5°	9181.7	9219.6	9266.9	9374.1	9607.5	9632.8	9579.1	9538.1	10087.0	10396.1	9973.4
50°	9509.8	9544.4	9765.2	9957.6	10392.9	10449.7	10481.2	10377.1	10749.3	10784.0	10607.4
52.5°	9421.4	9459.3	9768.4	10402.4	11096.3	11616.7	11522.1	11345.5	11323.4	11459.0	11194.1
55°	8639.2	8604.5	9030.3	10017.6	11317.1	12566.1	12578.7	12392.6	12036.2	11944.8	11105.8
56°	7973.7	7838.1	8380.6	9572.8	11033.2	12484.1	12626.1	12427.3	12093.0	11683.0	10560.1
57.5°	6532.2	6661.6	7200.9	8188.2	10052.3	11894.3	11976.3	11929.0	11676.7	10989.0	9292.1
60°	3602.0	3829.1	4305.4	5513.4	7156.8	9128.1	9194.3	9579.1	9626.5	8415.3	6393.5
62.5°	1529.8	1504.5	1999.7	2889.2	4075.2	5510.3	5633.3	6027.6	6100.1	4851.1	3207.8
65°	621.4	656.1	905.2	1454.1	2154.3	2510.7	2684.2	2813.5	3053.2	2002.9	1182.8
67.5°	410.0	406.9	533.1	829.5	1160.7	1119.7	1119.7	1182.8	1094.5	816.9	511.0
70°	293.3	302.8	381.7	574.1	722.3	536.2	514.1	492.0	558.3	539.4	413.2
72.5°	192.4	205.0	255.5	343.8	375.3	293.3	293.3	353.3	460.5	435.3	337.5
75°	126.2	129.3	157.7	198.7	186.1	151.4	167.2	236.6	334.3	321.7	239.7
77.5°	85.2	88.3	107.2	129.3	104.1	85.2	91.5	119.9	164.0	164.0	126.2
80°	31.5	34.7	44.2	41.0	47.3	59.9	66.2	82.0	97.8	97.8	85.2
82.5°	0.0	3.2	9.5	22.1	34.7	47.3	53.6	63.1	72.5	82.0	78.9
85°	0.0	3.2	9.5	15.8	25.2	28.4	31.5	22.1	18.9	18.9	15.8
87.5°	0.0	0.0	3.2	3.2	3.2	3.2	3.2	3.2	6.3	3.2	3.2
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°	3308.7	3308.7	3308.7	3308.7	3308.7	3308.7	3308.7	3308.7	3308.7	3308.7	3308.7
2.5°	3308.7	3305.5	3305.5	3296.1	3315.0	3305.5	3311.9	3308.7	3267.7	3299.2	3277.2
5°	3343.4	3365.5	3330.8	3324.5	3299.2	3308.7	3308.7	3277.2	3305.5	3302.4	3296.1
7.5°	3431.7	3393.9	3356.0	3318.2	3311.9	3302.4	3267.7	3255.1	3277.2	3251.9	3289.8
10°	3469.6	3475.9	3419.1	3368.6	3321.3	3255.1	3207.8	3179.4	3144.7	3182.5	3204.6
12.5°	3643.0	3580.0	3482.2	3403.3	3242.5	3176.2	3128.9	3116.3	3176.2	3188.8	3166.8
15°	3703.0	3693.5	3567.3	3390.7	3223.5	3144.7	3154.1	3128.9	3135.2	3103.7	3110.0
17.5°	3826.0	3718.7	3570.5	3349.7	3220.4	3201.5	3144.7	3043.8	2987.0	2961.7	2983.8
20°	3961.6	3857.5	3643.0	3365.5	3248.8	3198.3	3012.2	2889.2	2772.5	2709.4	2712.6
22.5°	4081.5	3952.1	3611.5	3371.8	3274.0	3065.8	2841.9	2599.0	2453.9	2356.1	2359.3
25°	4226.6	4043.6	3624.1	3384.4	3207.8	2854.5	2532.8	2296.2	2122.7	2056.5	2078.6
27.5°	4308.6	4100.4	3693.5	3412.8	3034.3	2554.9	2207.9	1987.1	1886.2	1854.6	1851.5
30°	4554.6	4226.6	3778.7	3356.0	2744.1	2233.1	1911.4	1775.8	1678.0	1649.6	1655.9
32.5°	4920.5	4456.8	3889.1	3207.8	2447.6	1946.1	1719.0	1618.1	1526.6	1473.0	1466.7
35°	5226.4	4851.1	4005.8	2977.5	2103.8	1725.3	1583.4	1457.2	1318.4	1258.5	1242.7
37.5°	5809.9	5295.8	3980.5	2630.6	1775.8	1561.3	1438.3	1283.7	1163.9	1081.9	1072.4
40°	6585.9	5816.2	3857.5	2207.9	1532.9	1416.2	1283.7	1135.5	987.2	917.9	911.5
42.5°	7528.9	6453.4	3633.6	1778.9	1290.0	1271.1	1151.3	980.9	848.5	798.0	801.2
45°	8295.4	6999.1	3406.5	1428.8	1110.3	1129.2	1025.1	864.2	772.8	731.8	731.8
47.5°	8976.7	7368.1	3160.5	1179.7	943.1	987.2	895.8	801.2	722.3	690.8	684.4
50°	9632.8	7743.4	2914.4	955.7	804.3	848.5	839.0	763.3	700.2	662.4	665.5
52.5°	10042.8	7803.4	2602.2	782.2	703.4	753.8	785.4	716.0	646.6	624.5	618.2
55°	9541.3	7030.6	2018.7	643.4	596.1	662.4	722.3	643.4	589.8	552.0	548.8
56°	8866.3	6286.2	1687.5	593.0	564.6	637.1	700.2	615.1	555.1	533.1	517.3
57.5°	7506.9	5144.4	1245.9	526.7	523.6	593.0	665.5	586.7	517.3	498.4	498.4
60°	4680.8	2895.5	753.8	441.6	454.2	526.7	599.3	523.6	460.5	460.5	470.0
62.5°	2132.2	1204.9	457.4	375.3	391.1	454.2	533.1	473.1	438.4	473.1	479.4
65°	725.5	520.4	331.2	299.6	309.1	375.3	457.4	479.4	476.3	498.4	511.0
67.5°	406.9	334.3	277.6	249.2	242.9	277.6	375.3	479.4	460.5	451.0	457.4
70°	343.8	283.9	246.0	220.8	211.3	223.9	290.2	362.7	324.9	315.4	309.1
72.5°	277.6	236.6	214.5	198.7	170.3	145.1	132.5	138.8	154.6	164.0	179.8
75°	195.6	179.8	179.8	160.9	123.0	91.5	72.5	59.9	41.0	28.4	31.5
77.5°	110.4	110.4	113.5	97.8	78.9	59.9	44.2	31.5	15.8	6.3	3.2
80°	75.7	82.0	88.3	78.9	66.2	53.6	37.8	22.1	9.5	0.0	0.0
82.5°	75.7	85.2	91.5	78.9	66.2	50.5	37.8	22.1	9.5	3.2	0.0
85°	15.8	18.9	22.1	25.2	37.8	37.8	28.4	18.9	9.5	3.2	0.0
87.5°	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	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)