

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: P529410

Luminaire Tested: **GALN-SA4C-740-U-T2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529410
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-SA4C-740-U-T2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 4000K, 1050mA 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: 23328 lumens
Efficiency: N/A
Efficacy: 109.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

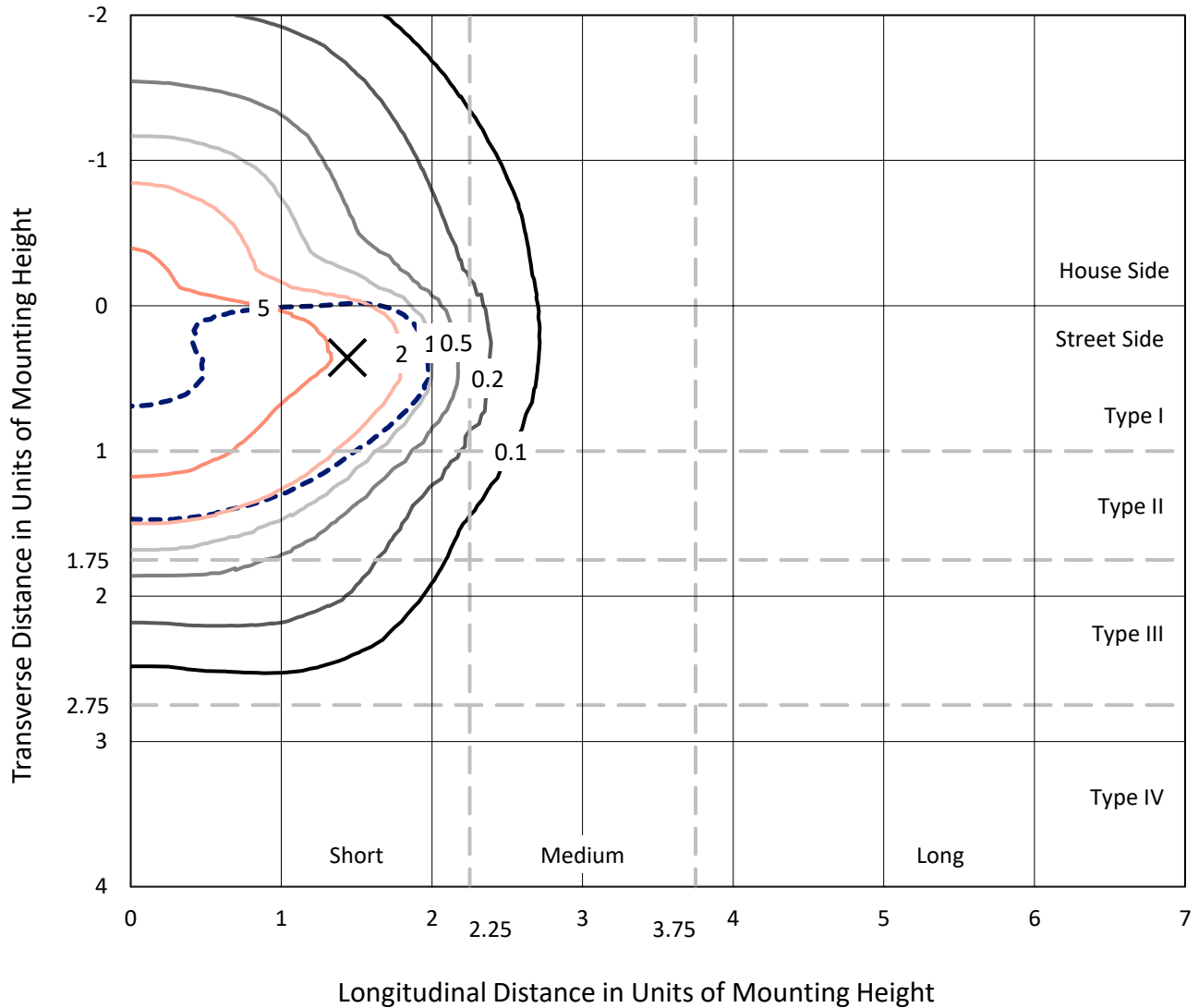
Input Watts (W): 213
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

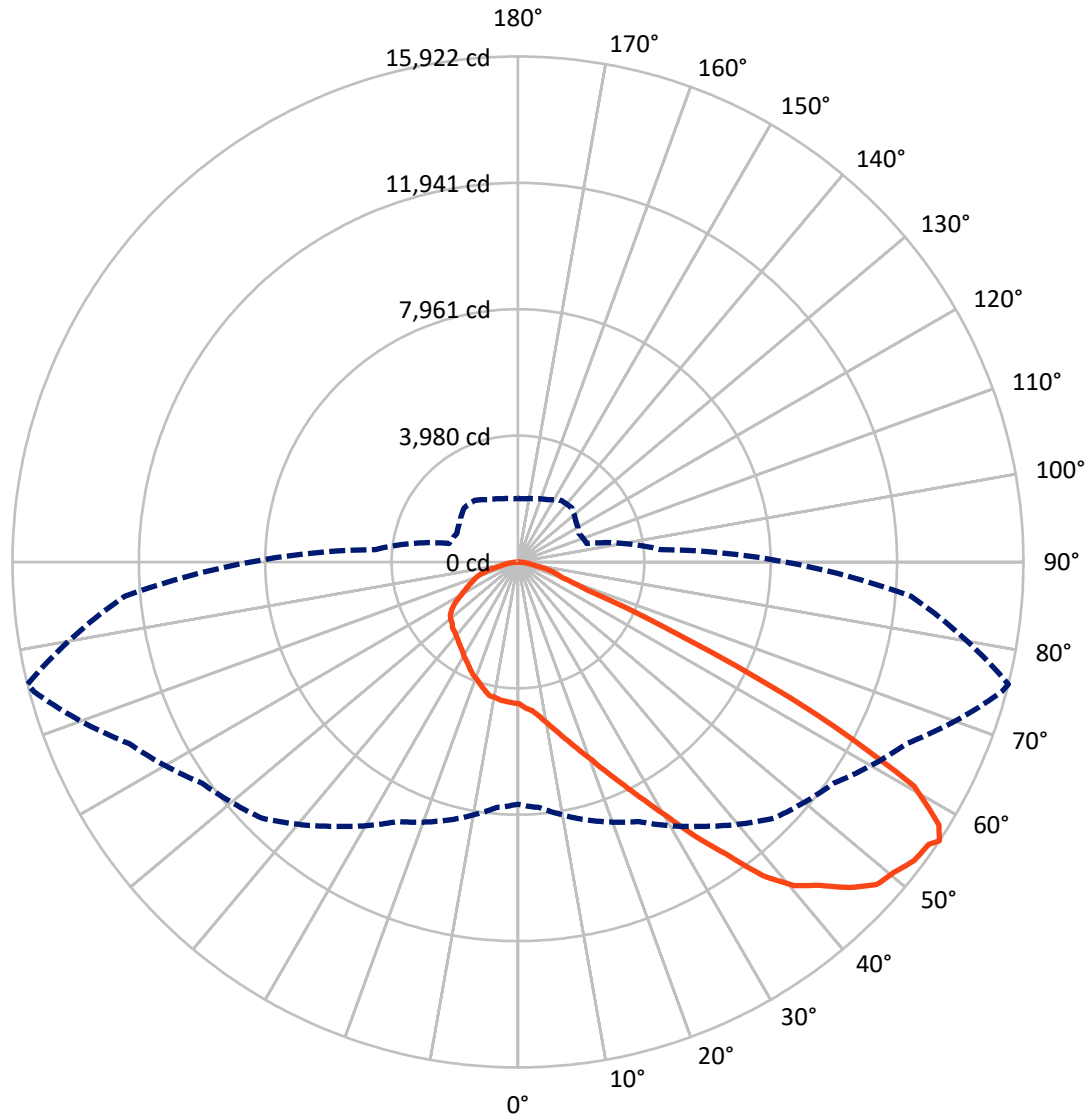
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.9 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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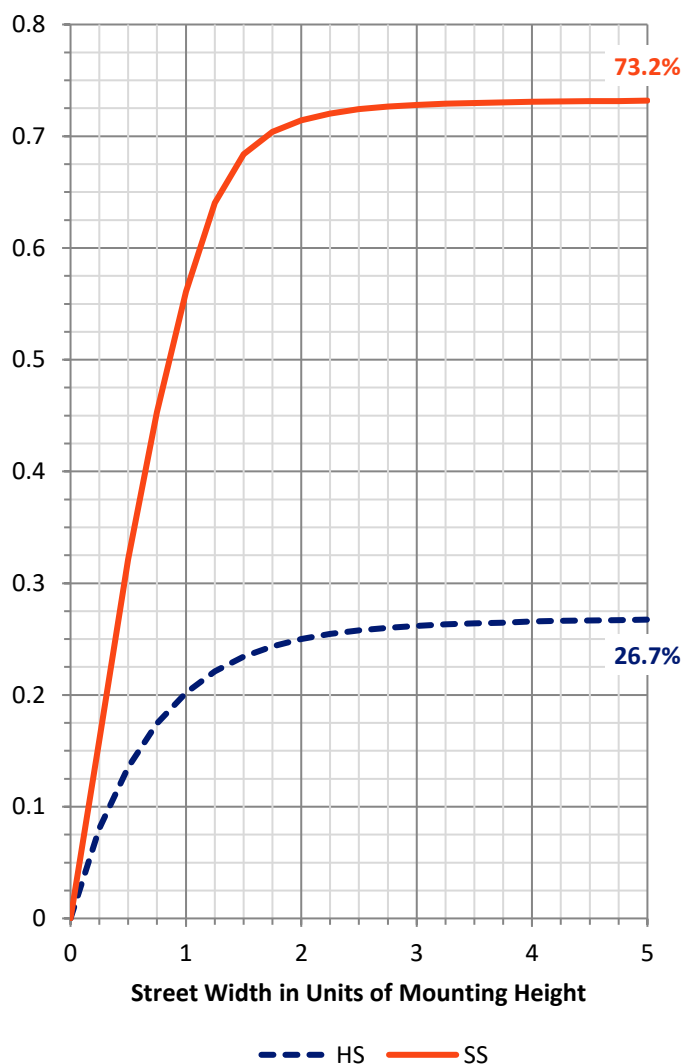
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6272.2	0.0	6272.2
	% Fixture	26.9	0.0	26.9
Street Side	Lumens	17055.8	0.0	17055.8
	% Fixture	73.1	0.0	73.1
Total	Lumens	23328.0	0.0	23328.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	442.6	1.9
10°-20°	1390.5	6.0
20°-30°	2431.8	10.4
30°-40°	3807.5	16.3
40°-50°	5538.8	23.7
50°-60°	6087.5	26.1
60°-70°	2717.2	11.6
70°-80°	784.8	3.4
80°-90°	127.3	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°	23328.0	100.0
0°-180°	23328.0	100.0

Coefficient of Utilization



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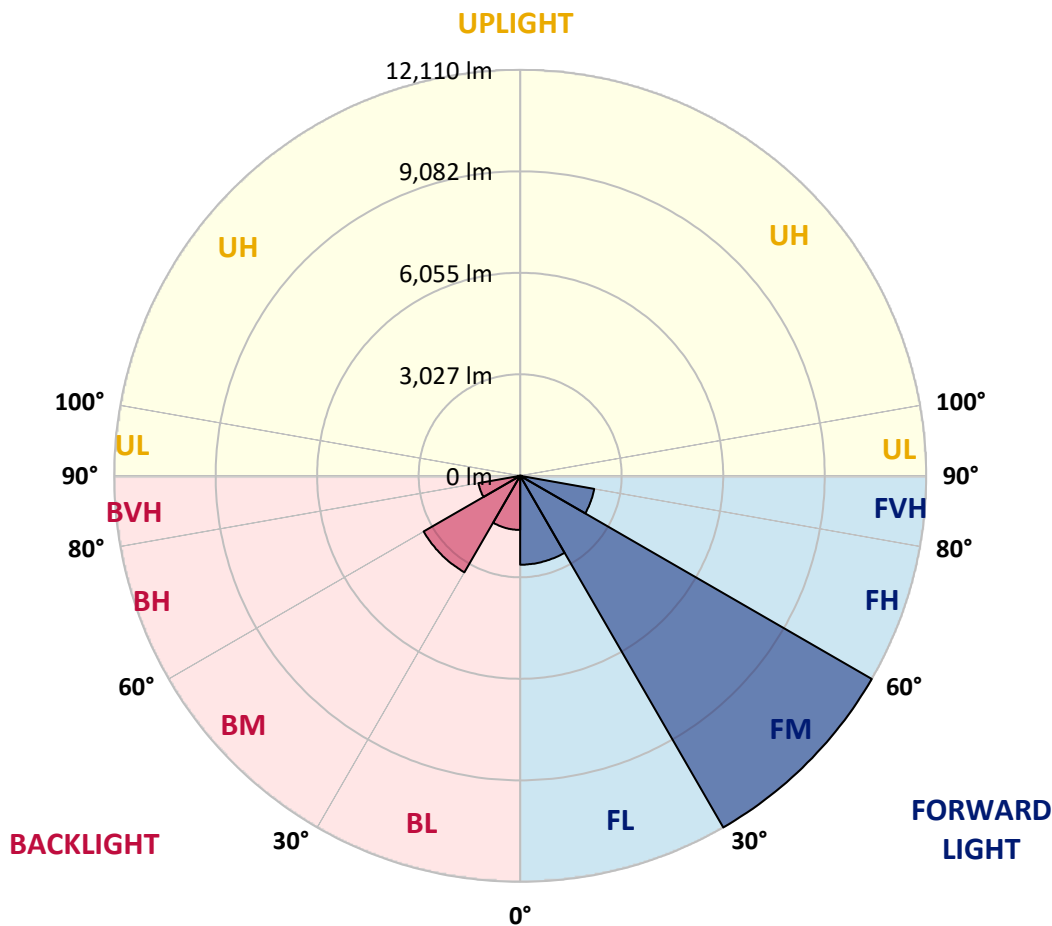
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2651.0	11.4			
FM (30°-60°)	12110.0	51.9			
FH (60°-80°)	2240.0	9.6			G2/5000
FVH (80°-90°)	54.8	0.2			G1/100
BL (0°-30°)	1614.0	6.9	B3/2500		
BM (30°-60°)	3323.8	14.2	B3/5000		
BH (60°-80°)	1262.0	5.4	B3/2500		G3/2500
BVH (80°-90°)	72.5	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°	4463.5	4463.5	4463.5	4463.5	4463.5	4463.5	4463.5	4463.5	4463.5	4463.5	4463.5
2.5°	4917.1	4838.5	4832.4	4811.3	4823.4	4768.9	4711.5	4635.9	4557.3	4605.6	4490.7
5°	5261.9	5156.0	5198.4	5125.8	5134.9	5062.3	4944.3	4856.6	4759.9	4702.4	4620.8
7.5°	5382.8	5391.9	5422.1	5410.0	5349.6	5349.6	5270.9	5116.7	4947.4	4914.1	4778.0
10°	5546.1	5549.2	5515.9	5525.0	5609.6	5570.3	5500.8	5434.2	5216.5	5177.2	4935.3
12.5°	5603.6	5549.2	5603.6	5652.0	5751.8	5806.2	5791.1	5742.7	5509.8	5482.6	5128.8
15°	5612.7	5579.4	5624.8	5733.6	5821.3	6051.1	6166.1	6132.8	5824.3	5827.4	5346.5
17.5°	5570.3	5615.7	5633.8	5727.6	5930.2	6144.9	6477.5	6522.9	6268.9	6229.6	5621.7
20°	5627.8	5594.5	5618.7	5703.4	5972.5	6308.2	6743.7	7043.0	6686.2	6659.0	5906.0
22.5°	5848.5	5803.2	5797.1	5851.6	6045.1	6392.9	7024.9	7563.2	7194.2	7209.4	6259.8
25°	6020.9	6045.1	6023.9	6020.9	6141.9	6519.9	7396.9	8183.1	7883.7	7796.0	6677.1
27.5°	6317.3	6374.7	6332.4	6389.8	6362.6	6710.4	7663.0	8869.6	8627.6	8509.7	7055.1
30°	6728.5	6758.8	6719.5	6719.5	6637.8	6976.5	7904.9	9586.3	9486.5	9326.2	7499.7
32.5°	7269.8	7315.2	7236.6	7191.2	7179.1	7372.7	8340.4	10293.9	10463.2	10327.2	8089.4
35°	7986.5	7959.3	7865.6	7823.2	7659.9	7980.5	8987.5	11107.4	11551.9	11310.0	8803.0
37.5°	8618.6	8576.2	8570.2	8334.3	8373.6	8636.7	9537.9	11724.3	12607.3	12537.8	9556.0
40°	9208.3	9247.6	9311.1	9178.0	9117.5	9407.9	10179.0	12196.0	13426.8	13399.6	10136.7
42.5°	9840.3	9804.0	9915.9	9804.0	9713.3	10124.6	10874.5	12522.6	14146.6	13922.8	10744.5
45°	10756.6	10641.7	10681.0	10690.1	10623.5	10774.7	11161.8	12758.5	14651.6	14627.4	11189.0
47.5°	11521.7	11524.7	11458.2	11406.8	11204.1	11355.3	11482.4	12906.7	15232.2	15192.9	11361.4
50°	11805.9	11766.6	11960.2	12072.0	12084.1	11775.7	11733.4	12988.3	15537.6	15365.3	11533.8
52.5°	10783.8	10820.1	11125.5	11790.8	12174.9	12208.1	12026.7	13157.7	15661.6	15625.3	11672.9
55°	8679.1	8854.4	9356.4	10124.6	11034.8	12035.8	12344.2	13333.1	15728.1	15697.9	12289.8
56°	7629.7	7765.8	8419.0	9020.8	10163.9	11409.8	12144.6	13520.6	15779.5	15921.7	12434.9
57.5°	6141.9	6299.1	6767.8	7451.3	8800.0	10218.3	11594.2	13290.7	15580.0	15634.4	12540.8
60°	3840.6	3855.7	4418.2	4868.7	5818.3	7203.3	8848.4	11564.0	14418.7	14340.1	11264.6
62.5°	2519.0	2522.1	3033.1	3402.1	3834.5	4152.0	5207.4	7669.0	10638.6	10499.5	8019.8
65°	1769.1	1808.4	2204.5	2697.5	2872.9	2706.5	2673.3	4043.2	5942.3	5742.7	4309.3
67.5°	1294.3	1297.3	1648.1	2177.3	2431.3	2059.4	1672.3	1974.7	2352.7	2346.7	1995.9
70°	855.8	892.1	1161.2	1626.9	1917.3	1654.2	1366.9	1412.2	1496.9	1496.9	1484.8
72.5°	499.0	532.2	710.7	1031.2	1076.6	1034.2	1082.6	1209.6	1264.1	1261.0	1245.9
75°	284.3	299.4	338.7	429.4	535.3	632.0	795.3	916.3	970.7	1004.0	964.7
77.5°	166.3	175.4	199.6	244.9	278.2	341.7	432.4	517.1	589.7	580.6	586.7
80°	87.7	87.7	111.9	145.2	193.5	241.9	287.3	335.7	375.0	384.1	393.1
82.5°	51.4	54.4	72.6	105.8	139.1	172.4	220.8	254.0	290.3	293.3	299.4
85°	27.2	30.2	45.4	69.6	93.7	105.8	108.9	102.8	111.9	105.8	121.0
87.5°	9.1	9.1	15.1	12.1	12.1	15.1	18.1	18.1	24.2	24.2	24.2
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°	4463.5	4463.5	4463.5	4463.5	4463.5	4463.5	4463.5	4463.5	4463.5	4463.5	4463.5
2.5°	4487.7	4487.7	4436.3	4339.5	4324.4	4285.1	4248.8	4245.8	4218.6	4194.4	4182.3
5°	4572.4	4478.6	4403.0	4315.3	4212.5	4164.1	4109.7	4049.2	4025.0	4049.2	4046.2
7.5°	4669.1	4590.5	4363.7	4200.4	4082.5	4034.1	3973.6	3910.1	3916.2	3916.2	3873.8
10°	4762.9	4657.1	4294.2	4085.5	3913.1	3876.8	3843.6	3867.8	3898.0	3904.1	3876.8
12.5°	4920.1	4681.2	4260.9	3970.6	3861.7	3783.1	3804.3	3870.8	3934.3	3916.2	3937.3
15°	5038.1	4702.4	4109.7	3852.7	3716.6	3752.9	3828.5	3873.8	3979.7	3967.6	3988.7
17.5°	5153.0	4714.5	3961.5	3695.4	3637.9	3737.7	3795.2	3925.2	3958.5	4031.1	4058.3
20°	5388.9	4738.7	3810.3	3598.6	3580.5	3695.4	3795.2	3855.7	3928.3	3991.8	3991.8
22.5°	5509.8	4726.6	3710.5	3471.6	3529.1	3601.7	3692.4	3795.2	3795.2	3855.7	3858.7
25°	5661.0	4678.2	3553.3	3411.1	3453.5	3523.0	3625.8	3589.6	3628.9	3628.9	3677.3
27.5°	5833.4	4575.4	3417.2	3302.3	3386.9	3462.5	3477.7	3453.5	3408.1	3402.1	3383.9
30°	5972.5	4448.4	3317.4	3266.0	3335.5	3377.9	3329.5	3278.1	3199.5	3193.4	3151.1
32.5°	6163.0	4291.1	3193.4	3175.3	3253.9	3256.9	3241.8	3163.2	3048.3	2999.9	2951.5
35°	6483.6	4200.4	3099.7	3126.9	3151.1	3142.0	3114.8	3030.1	2915.2	2894.0	2875.9
37.5°	6719.5	4133.9	3002.9	3036.2	3057.3	3069.4	2987.8	2894.0	2897.0	2854.7	2842.6
40°	6985.6	4091.6	2924.3	2939.4	2942.4	2981.7	2881.9	2836.6	2857.7	2830.5	2848.7
42.5°	7327.3	4103.7	2842.6	2830.5	2888.0	2872.9	2824.5	2764.0	2776.1	2694.4	2706.5
45°	7508.7	4185.3	2794.2	2739.8	2803.3	2800.3	2736.8	2679.3	2606.7	2449.5	2455.5
47.5°	7629.7	4206.5	2679.3	2643.0	2709.6	2748.9	2676.3	2543.2	2440.4	2328.5	2301.3
50°	7753.7	4245.8	2624.9	2549.3	2576.5	2670.2	2579.5	2452.5	2352.7	2252.9	2268.0
52.5°	7862.6	4321.4	2519.0	2407.2	2455.5	2558.4	2510.0	2355.7	2246.9	2165.2	2141.0
55°	8346.4	4490.7	2340.6	2195.5	2310.4	2440.4	2413.2	2225.7	2107.8	2065.4	2059.4
56°	8422.0	4496.8	2246.9	2122.9	2228.7	2401.1	2367.8	2168.3	2062.4	1995.9	1998.9
57.5°	8434.1	4424.2	2113.8	2056.4	2147.1	2343.6	2301.3	2122.9	1977.7	1917.3	1899.1
60°	7421.0	3453.5	1947.5	1911.2	2017.0	2168.3	2153.1	1998.9	1835.6	1766.1	1799.3
62.5°	5059.3	2531.1	1817.5	1811.4	1865.8	2014.0	1974.7	1835.6	1699.5	1654.2	1633.0
65°	2945.4	1920.3	1690.4	1666.3	1711.6	1790.2	1817.5	1672.3	1530.2	1499.9	1490.9
67.5°	1738.8	1587.6	1527.2	1487.8	1472.7	1521.1	1542.3	1457.6	1315.5	1273.1	1309.4
70°	1454.6	1412.2	1415.3	1348.7	1312.4	1279.2	1261.0	1185.4	1067.5	1013.1	997.9
72.5°	1255.0	1236.8	1224.7	1164.3	1131.0	1055.4	976.8	901.2	813.5	768.1	771.1
75°	958.6	952.6	958.6	928.4	870.9	810.4	737.9	641.1	574.6	517.1	529.2
77.5°	571.5	589.7	598.8	586.7	562.5	508.0	462.7	399.2	335.7	290.3	284.3
80°	393.1	408.2	423.4	408.2	384.1	344.7	296.4	248.0	202.6	178.4	172.4
82.5°	299.4	314.5	323.6	308.5	278.2	235.9	202.6	169.3	133.1	108.9	102.8
85°	108.9	124.0	121.0	145.2	157.3	151.2	130.0	99.8	75.6	54.4	51.4
87.5°	30.2	27.2	30.2	30.2	30.2	27.2	24.2	24.2	24.2	15.1	12.1
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)