

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: P530530

Luminaire Tested: **GALN-SA5D-730-U-T2R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530530
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-10)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5D-730-U-T2R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31004 lumens
Efficiency: N/A
Efficacy: 100.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

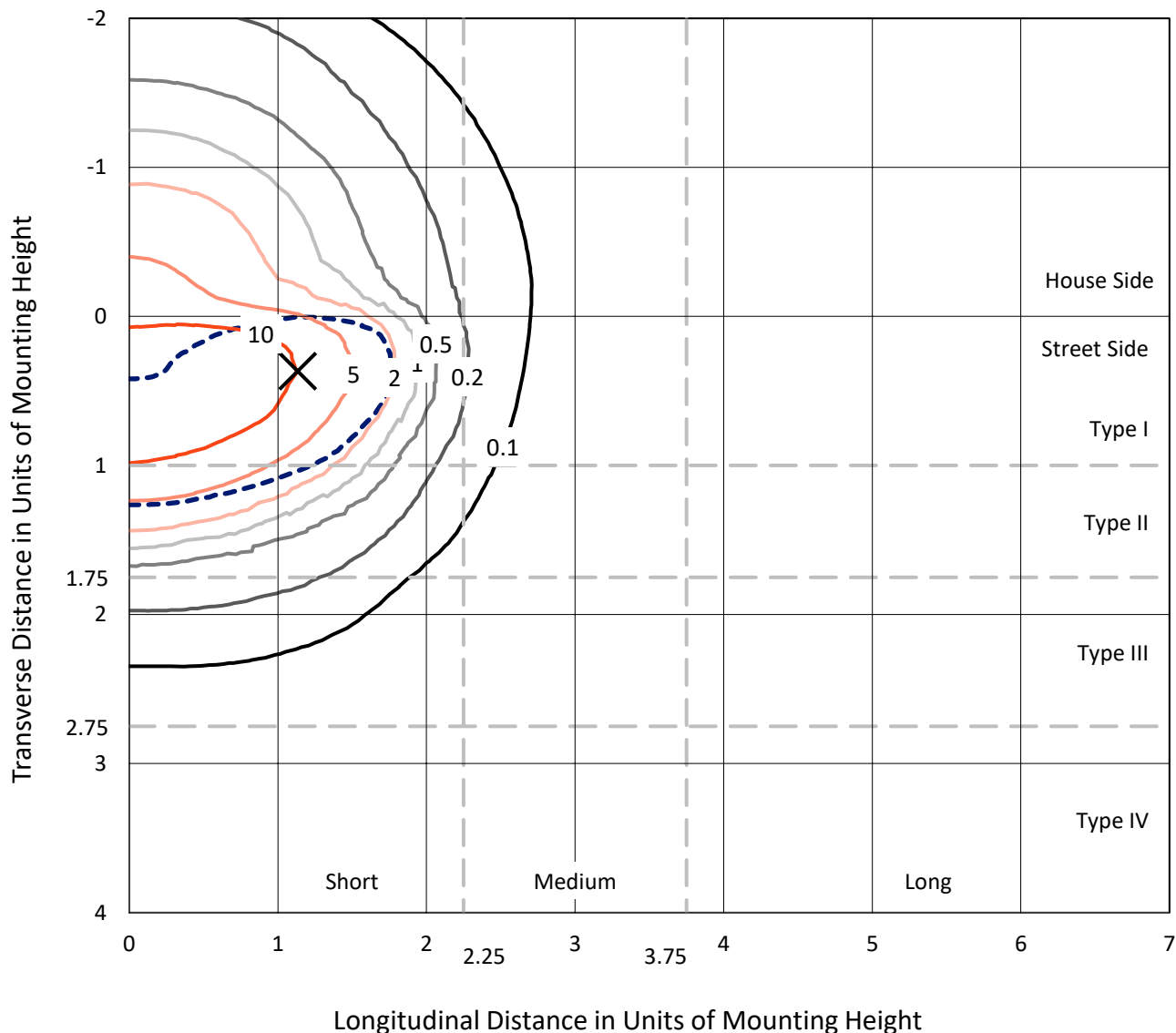
Input Watts (W): 309
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

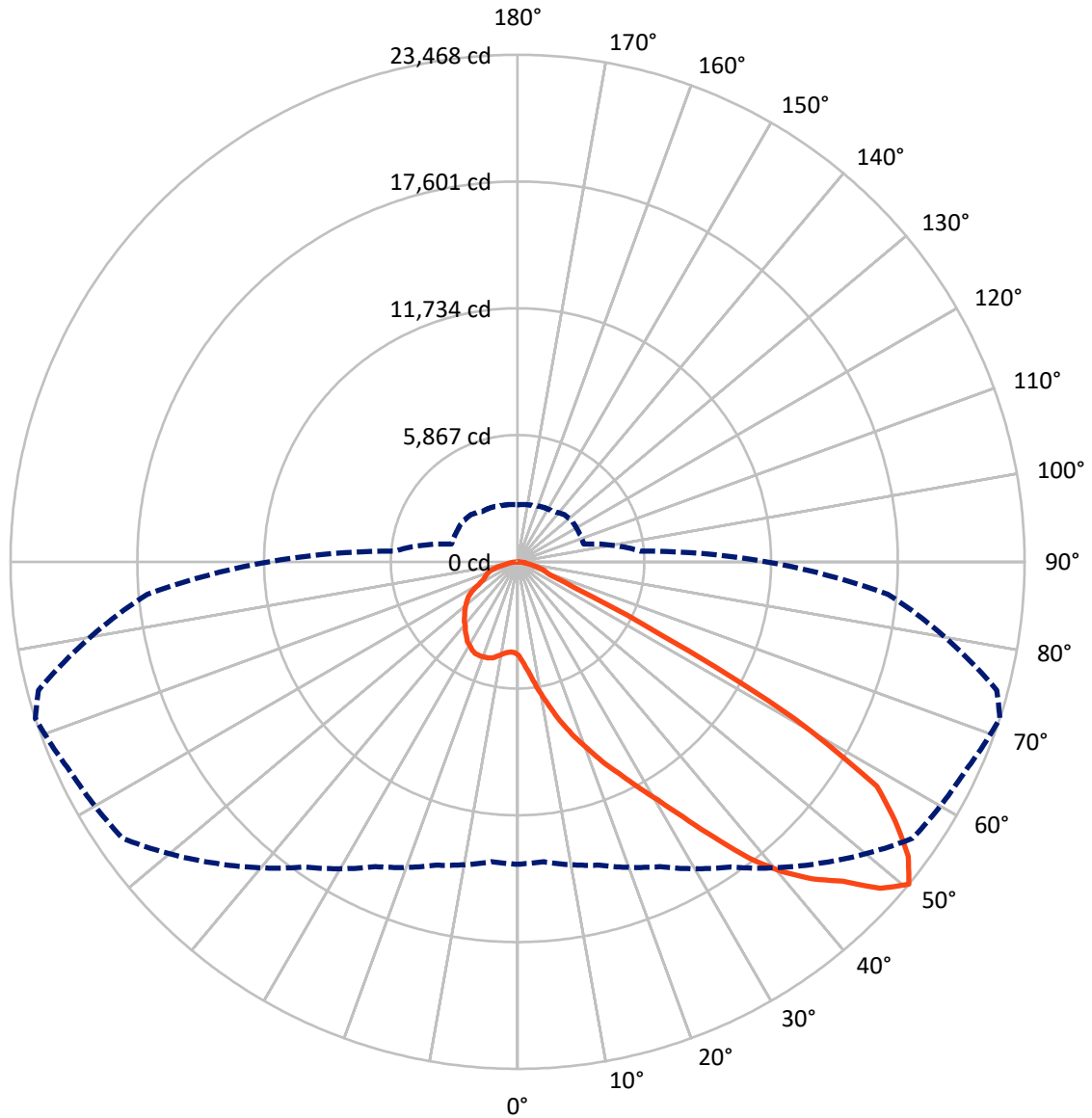
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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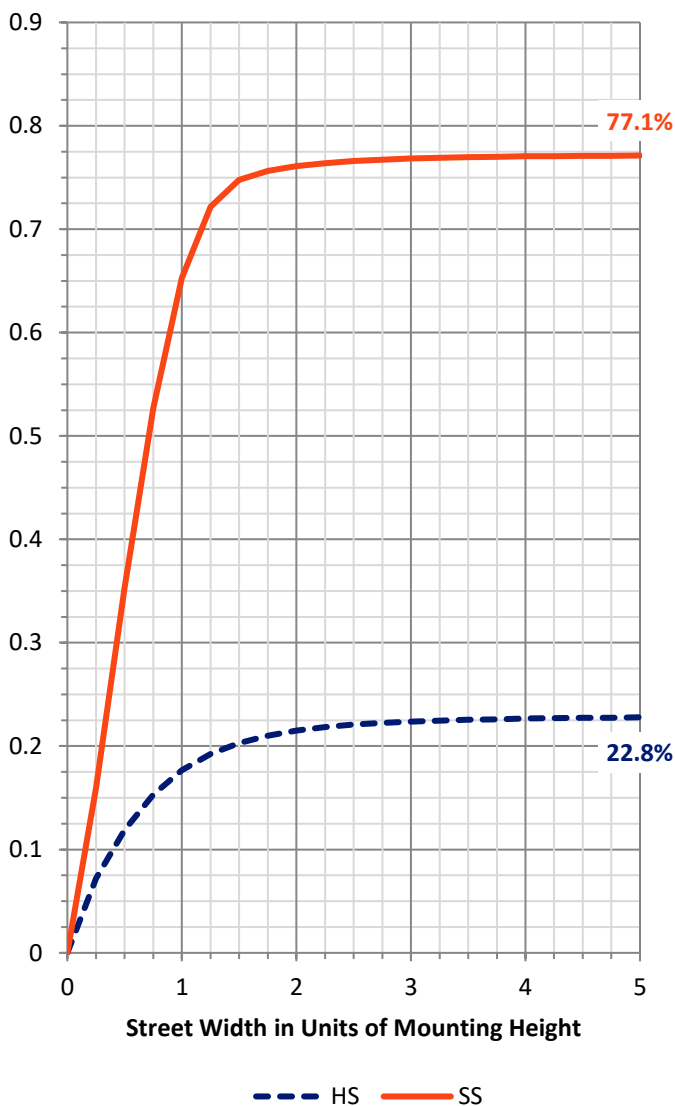
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7103.2	0.0	7103.2
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	23900.8	0.0	23900.8
	% Fixture	77.1	0.0	77.1
Total	Lumens	31004.0	0.0	31004.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	507.7	1.6
10°-20°	1897.9	6.1
20°-30°	3679.8	11.9
30°-40°	6096.2	19.7
40°-50°	8529.9	27.5
50°-60°	7196.0	23.2
60°-70°	2193.3	7.1
70°-80°	769.5	2.5
80°-90°	133.8	0.4
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°	31004.0	100.0
0°-180°	31004.0	100.0

Coefficient of Utilization

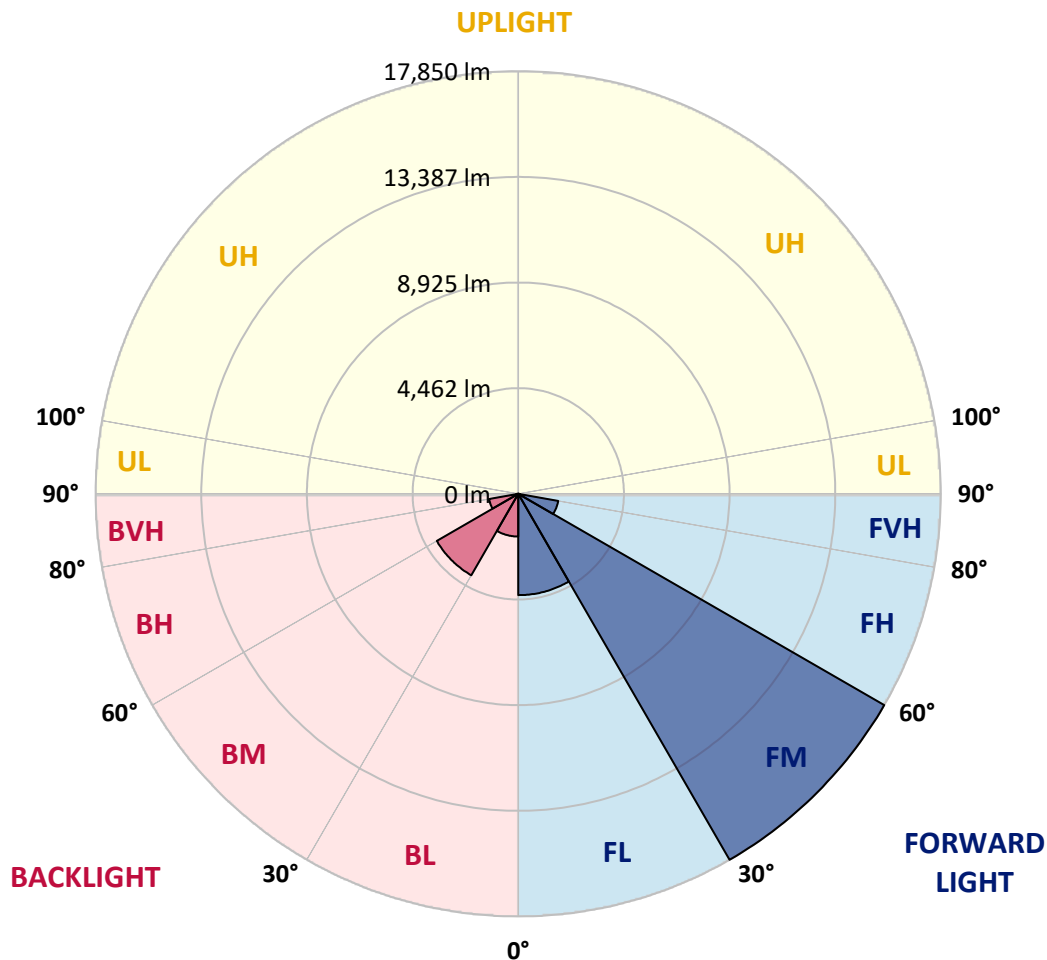


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4279.7	13.8			
FM (30°-60°)	17849.8	57.6			
FH (60°-80°)	1711.4	5.5			G1/1800
FVH (80°-90°)	59.9	0.2			G1/100
BL (0°-30°)	1805.7	5.8	B3/2500		
BM (30°-60°)	3972.2	12.8	B3/5000		
BH (60°-80°)	1251.5	4.0	B3/2500		G3/2500
BVH (80°-90°)	73.9	0.2			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°	72°	75°	85°
0°	4316.0	4316.0	4316.0	4316.0	4316.0	4316.0	4316.0	4316.0	4316.0	4316.0	4316.0
2.5°	5551.4	5516.8	5413.2	5378.7	5256.0	5033.4	4956.7	4730.4	4634.4	4546.2	4442.6
5°	7020.7	6859.6	6848.1	6652.4	6368.5	6203.6	5712.5	5382.6	5079.5	4926.0	4642.1
7.5°	7956.8	7960.7	7960.7	7799.5	7573.2	7155.0	6713.8	6119.2	5662.6	5436.3	4952.9
10°	8846.9	8770.2	8728.0	8712.6	8559.1	8152.5	7680.6	6944.0	6318.7	6053.9	5186.9
12.5°	9476.1	9410.8	9506.8	9456.9	9345.6	9080.9	8635.9	7795.7	7013.1	6656.3	5562.9
15°	9775.3	9821.3	9898.1	10036.2	9986.3	9886.6	9395.5	8670.4	7761.2	7358.3	5896.6
17.5°	10235.7	10109.1	10201.2	10373.8	10511.9	10465.9	10185.8	9303.4	8501.6	8006.7	6345.5
20°	10557.9	10485.1	10531.1	10730.6	10834.2	11095.1	10949.3	10132.1	9211.3	8689.6	6874.9
22.5°	11478.7	11371.3	11221.7	11252.3	11290.7	11474.9	11509.4	11041.3	10036.2	9483.7	7377.5
25°	12614.3	12514.5	12338.1	12157.8	12046.5	12012.0	12130.9	11754.9	10826.5	10254.9	7918.5
27.5°	13865.0	13696.2	13584.9	13212.8	12913.5	12867.5	12810.0	12606.6	11762.6	11144.9	8528.5
30°	15081.1	14946.9	14797.2	14202.6	13891.8	13842.0	13558.1	13615.6	12779.3	12092.5	9219.0
32.5°	16001.9	16013.4	15672.0	15223.1	14931.5	14666.8	14563.2	14728.2	14083.7	13531.2	9990.2
35°	16746.2	16780.7	16454.6	16047.9	15733.3	15917.5	15871.4	15948.2	15641.3	14966.0	10887.9
37.5°	17471.3	17298.6	16949.5	16753.8	16588.9	16891.9	17283.3	17348.5	17406.0	16611.9	11931.4
40°	17590.2	17605.5	17402.2	17540.3	17333.1	17789.7	18698.9	18614.5	18848.5	18154.1	13063.2
42.5°	17421.4	17455.9	17536.5	17732.1	18230.9	18779.5	20129.9	19784.6	20068.5	19450.9	14164.2
45°	17145.2	17003.2	17103.0	17847.2	18710.4	19930.4	21438.2	21169.6	21077.5	20559.6	15476.3
47.5°	15825.4	15971.2	16282.0	17198.9	18495.6	20129.9	22366.6	22305.2	22581.4	22217.0	16669.4
50°	13995.4	13937.9	14536.4	15568.4	17241.1	19738.6	22316.7	22873.0	23467.6	22961.2	17202.7
52.5°	10481.2	10788.1	11302.2	12583.6	14969.9	17605.5	21227.2	22155.6	22639.0	22531.5	16773.0
55°	6625.6	6717.6	7028.4	8551.5	10699.9	14129.7	18196.3	20348.6	21211.8	21614.6	16377.9
57.5°	3218.8	3046.2	3426.0	4649.8	6180.5	9502.9	14033.8	17724.5	19600.5	20329.4	15518.5
60°	1680.4	1745.6	1895.2	2332.6	3195.8	4933.7	8747.1	11812.5	14678.3	15798.6	11762.6
62.5°	1392.6	1415.7	1515.4	1734.1	2125.4	2839.0	4465.6	5758.5	7484.9	8493.9	6690.8
65°	1181.6	1193.1	1300.6	1446.3	1695.7	1998.8	2298.0	2405.5	2911.9	2988.6	2378.6
67.5°	986.0	997.5	1112.6	1250.7	1411.8	1492.4	1569.1	1561.4	1619.0	1596.0	1592.1
70°	759.6	771.1	890.1	1035.8	1116.4	1070.4	1308.2	1361.9	1385.0	1404.1	1434.8
72.5°	548.6	571.6	663.7	767.3	725.1	832.5	1078.0	1158.6	1189.3	1200.8	1239.2
75°	399.0	406.7	429.7	399.0	460.4	579.3	759.6	859.4	897.7	909.2	966.8
77.5°	176.5	180.3	184.2	230.2	295.4	360.6	452.7	533.3	587.0	602.3	617.7
80°	92.1	95.9	118.9	157.3	211.0	264.7	329.9	376.0	410.5	414.3	429.7
82.5°	57.5	61.4	84.4	111.3	149.6	195.7	241.7	280.1	306.9	310.8	314.6
85°	26.9	34.5	49.9	69.1	99.7	126.6	130.4	111.3	118.9	122.8	115.1
87.5°	7.7	11.5	15.3	11.5	15.3	15.3	19.2	23.0	23.0	23.0	26.9
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°	4316.0	4316.0	4316.0	4316.0	4316.0	4316.0	4316.0	4316.0	4316.0	4316.0	4316.0
2.5°	4385.1	4350.5	4216.3	4166.4	4036.0	4059.0	3989.9	3986.1	3970.7	3966.9	3963.1
5°	4492.5	4385.1	4223.9	4101.2	4028.3	4020.6	3970.7	3970.7	3986.1	3997.6	3970.7
7.5°	4669.0	4546.2	4273.8	4158.7	4093.5	4082.0	4047.5	4020.6	4055.1	4043.6	4012.9
10°	4872.3	4657.5	4369.7	4270.0	4162.6	4135.7	4135.7	4147.2	4089.7	4108.9	4078.2
12.5°	5098.7	4810.9	4492.5	4377.4	4250.8	4235.5	4227.8	4143.4	4174.1	4158.7	4082.0
15°	5386.4	4987.4	4649.8	4454.1	4346.7	4277.7	4177.9	4162.6	4143.4	4105.0	4070.5
17.5°	5697.1	5179.2	4722.7	4477.2	4316.0	4266.1	4189.4	4108.9	4051.3	4059.0	4032.1
20°	5961.9	5355.7	4749.5	4500.2	4293.0	4197.1	4078.2	4028.3	3966.9	3963.1	3959.2
22.5°	6276.5	5593.6	4787.9	4438.8	4223.9	4124.2	4043.6	3955.4	3913.2	3859.5	3886.3
25°	6652.4	5685.6	4795.6	4404.3	4174.1	3997.6	3955.4	3859.5	3844.1	3767.4	3782.8
27.5°	6924.8	5735.5	4734.2	4296.8	4059.0	3924.7	3848.0	3778.9	3752.1	3694.5	3679.2
30°	7289.3	5812.2	4603.8	4162.6	3943.9	3794.3	3748.2	3732.9	3656.1	3594.8	3587.1
32.5°	7703.6	5862.1	4519.4	4024.4	3825.0	3709.9	3732.9	3660.0	3564.1	3510.4	3495.0
35°	8033.6	5881.3	4308.3	3867.2	3744.4	3671.5	3644.6	3629.3	3491.2	3441.3	3402.9
37.5°	8536.1	5839.1	4131.9	3755.9	3656.1	3629.3	3606.3	3502.7	3345.4	3272.5	3218.8
40°	9123.1	5827.6	3905.5	3598.6	3571.7	3602.4	3533.4	3372.3	3153.6	3073.0	3034.6
42.5°	9687.1	5908.2	3763.6	3514.2	3479.7	3491.2	3395.3	3153.6	3046.2	3000.1	2938.7
45°	10630.8	6077.0	3529.5	3383.8	3368.4	3360.7	3245.6	2992.4	2931.1	2873.5	2862.0
47.5°	11482.5	5965.7	3379.9	3249.5	3264.8	3222.6	2977.1	2896.5	2827.5	2769.9	2750.7
50°	11532.4	5701.0	3168.9	3145.9	3149.7	3076.8	2842.8	2789.1	2700.9	2662.5	2635.7
52.5°	11271.5	5267.5	2973.3	2980.9	2992.4	2873.5	2677.9	2639.5	2566.6	2512.9	2497.5
55°	10538.8	4592.2	2781.4	2812.1	2842.8	2616.5	2555.1	2459.2	2401.6	2324.9	2328.7
57.5°	9284.2	3698.4	2512.9	2562.8	2628.0	2378.6	2332.6	2213.6	2129.2	2067.9	2060.2
60°	6222.7	2631.8	2110.1	2129.2	2275.0	2175.3	2171.4	2052.5	1937.4	1883.7	1853.0
62.5°	3671.5	2010.3	1822.3	1803.1	1799.3	1856.8	1952.8	1910.6	1760.9	1657.4	1688.0
65°	1922.1	1737.9	1695.7	1630.5	1592.1	1576.8	1649.7	1668.9	1569.1	1457.9	1450.2
67.5°	1615.2	1615.2	1580.6	1557.6	1503.9	1438.7	1392.6	1331.3	1315.9	1285.2	1246.9
70°	1469.4	1507.7	1496.2	1442.5	1396.5	1323.6	1204.6	1104.9	1009.0	974.5	997.5
72.5°	1281.4	1319.7	1319.7	1292.9	1231.5	1120.2	1005.2	890.1	809.5	748.1	740.4
75°	986.0	1005.2	1051.2	1020.5	939.9	870.9	751.9	633.0	556.3	498.7	487.2
77.5°	629.2	659.9	659.9	656.0	598.5	533.3	456.5	372.1	314.6	272.4	260.9
80°	418.2	437.4	452.7	437.4	399.0	349.1	291.6	234.0	191.8	157.3	149.6
82.5°	306.9	329.9	341.4	326.1	287.7	249.4	207.2	165.0	122.8	95.9	88.2
85°	118.9	122.8	138.1	165.0	161.1	157.3	126.6	92.1	69.1	49.9	46.0
87.5°	30.7	26.9	30.7	30.7	26.9	23.0	23.0	23.0	23.0	11.5	15.3
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)