

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: P531232

Luminaire Tested: **GALN-SA6C-730-U-T2R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531232
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-SA6C-730-U-T2R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3000K, 1050mA 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: 33364 lumens
Efficiency: N/A
Efficacy: 103.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

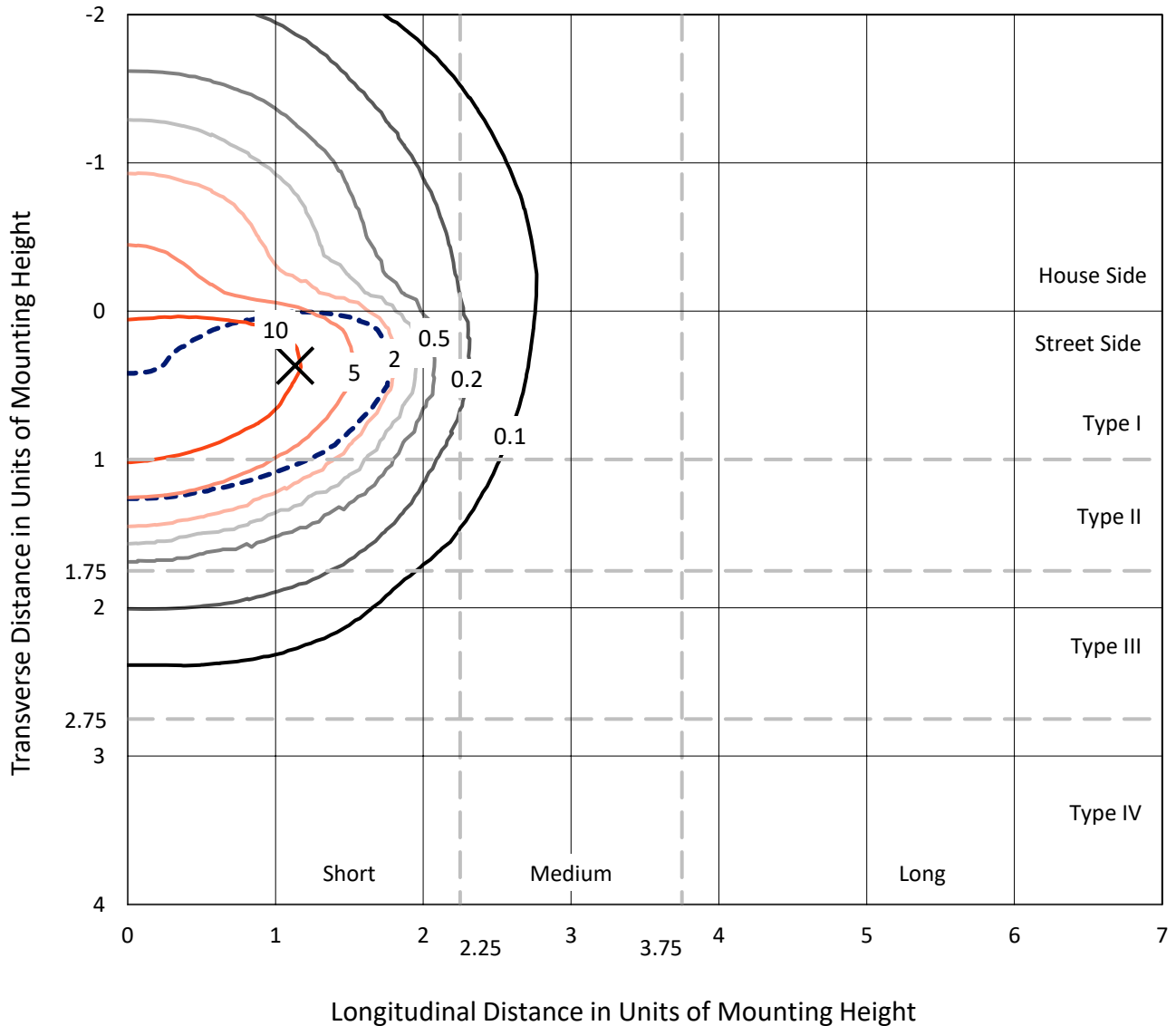
Input Watts (W): 321
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

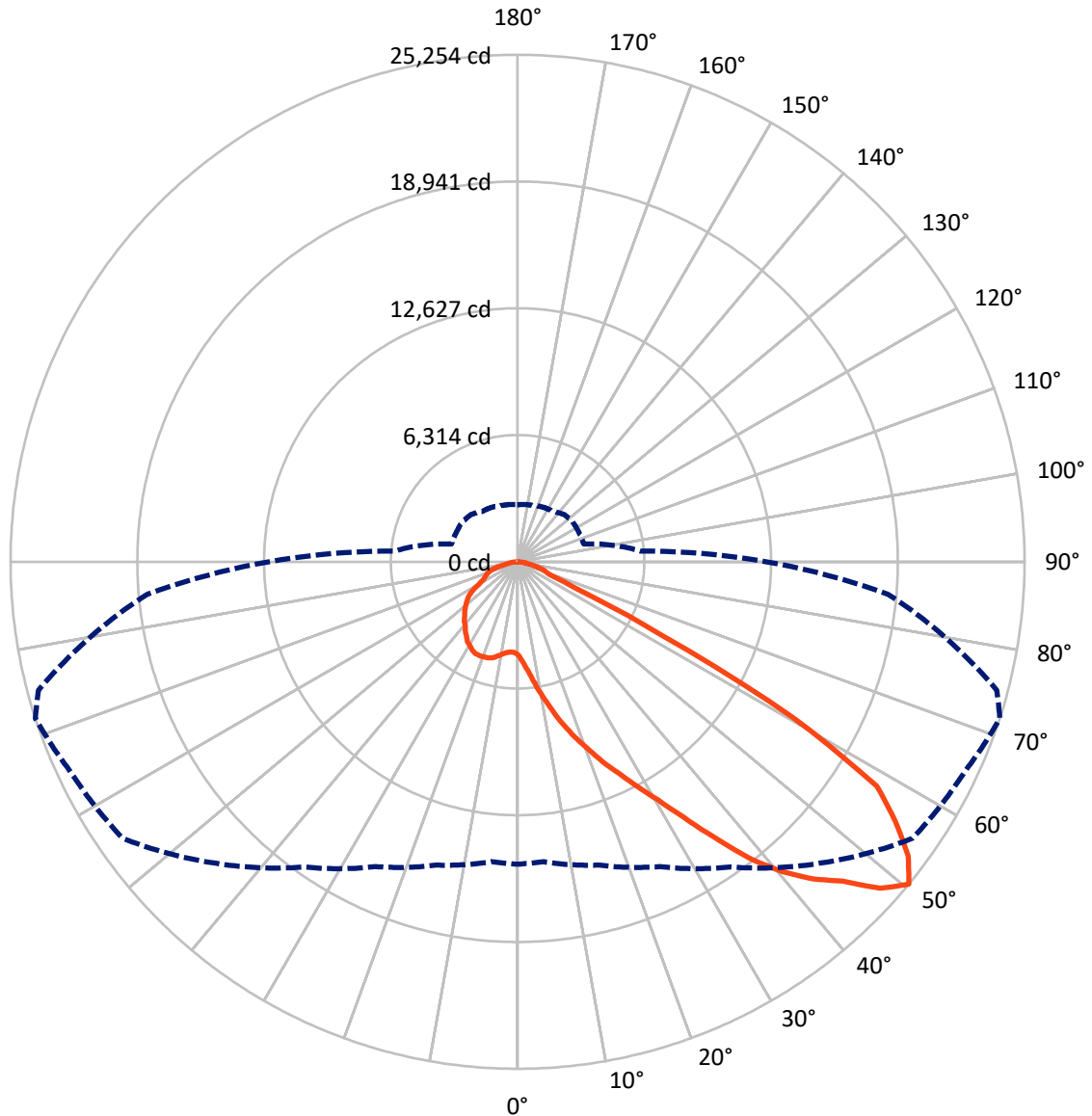
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.6 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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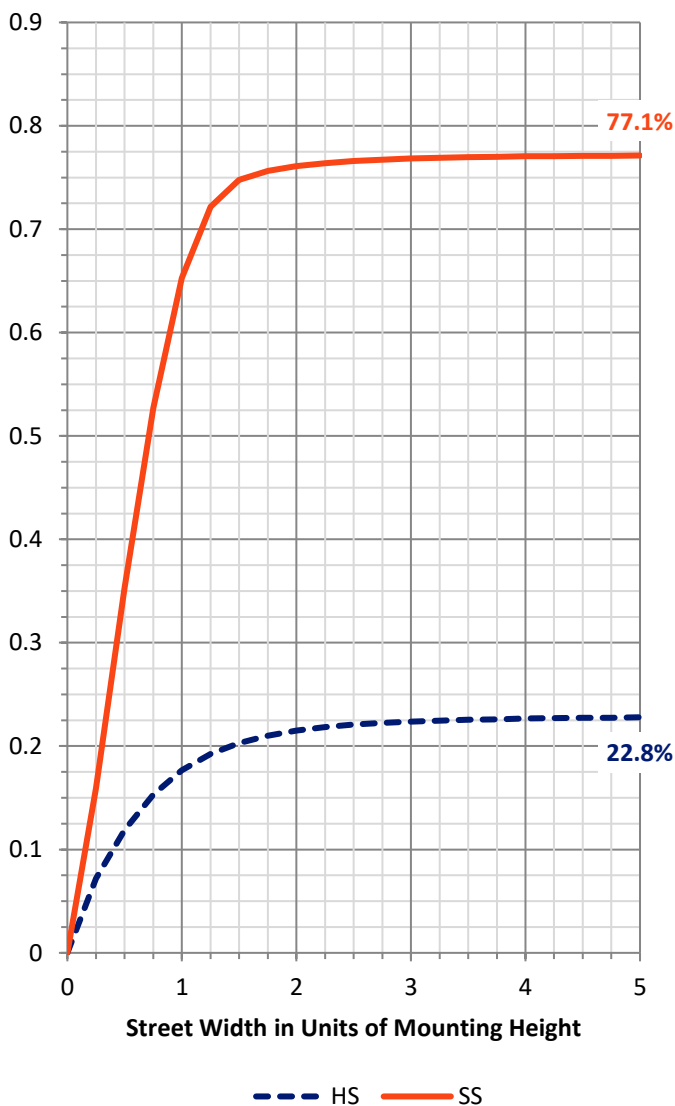
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7643.9	0.0	7643.9
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	25720.1	0.0	25720.1
	% Fixture	77.1	0.0	77.1
Total	Lumens	33364.0	0.0	33364.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	546.3	1.6
10°-20°	2042.3	6.1
20°-30°	3959.9	11.9
30°-40°	6560.2	19.7
40°-50°	9179.1	27.5
50°-60°	7743.8	23.2
60°-70°	2360.3	7.1
70°-80°	828.1	2.5
80°-90°	144.0	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°	33364.0	100.0
0°-180°	33364.0	100.0

Coefficient of Utilization

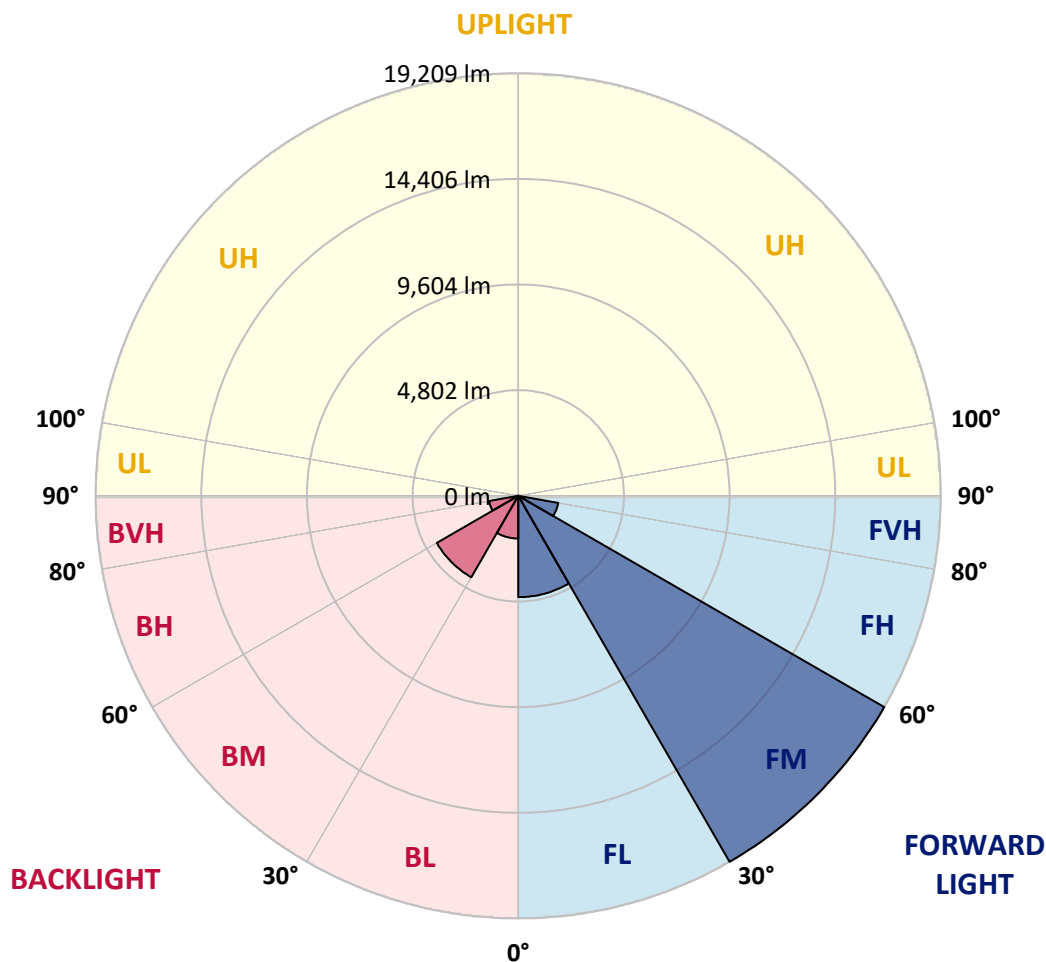


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4605.4	13.8			
FM (30°-60°)	19208.5	57.6			
FH (60°-80°)	1841.6	5.5			G2/5000
FVH (80°-90°)	64.5	0.2			G1/100
BL (0°-30°)	1943.1	5.8	B3/2500		
BM (30°-60°)	4274.6	12.8	B3/5000		
BH (60°-80°)	1346.7	4.0	B3/2500		G3/2500
BVH (80°-90°)	79.5	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°	4644.6	4644.6	4644.6	4644.6	4644.6	4644.6	4644.6	4644.6	4644.6	4644.6	4644.6
2.5°	5973.9	5936.8	5825.3	5788.1	5656.0	5416.6	5334.0	5090.4	4987.2	4892.3	4780.8
5°	7555.1	7381.7	7369.4	7158.8	6853.3	6675.8	6147.3	5792.3	5466.1	5301.0	4995.5
7.5°	8562.5	8566.6	8566.6	8393.2	8149.6	7699.6	7224.9	6584.9	6093.7	5850.1	5329.9
10°	9520.3	9437.7	9392.3	9375.8	9210.7	8773.0	8265.2	7472.6	6799.6	6514.8	5581.7
12.5°	10197.4	10127.2	10230.4	10176.7	10057.0	9772.1	9293.2	8389.1	7546.9	7162.9	5986.3
15°	10519.4	10568.9	10651.5	10800.1	10746.5	10639.1	10110.7	9330.4	8351.9	7918.4	6345.5
17.5°	11014.8	10878.6	10977.7	11163.4	11312.1	11262.5	10961.1	10011.6	9148.7	8616.2	6828.5
20°	11361.6	11283.2	11332.7	11547.4	11658.9	11939.6	11782.7	10903.3	9912.5	9351.0	7398.3
22.5°	12352.4	12236.8	12075.8	12108.9	12150.2	12348.3	12385.5	11881.8	10800.1	10205.6	7939.1
25°	13574.5	13467.1	13277.2	13083.2	12963.5	12926.3	13054.3	12649.7	11650.6	11035.5	8521.2
27.5°	14920.4	14738.7	14619.0	14218.5	13896.5	13847.0	13785.0	13566.2	12658.0	11993.3	9177.6
30°	16229.1	16084.6	15923.6	15283.7	14949.3	14895.6	14590.1	14652.0	13752.0	13013.0	9920.8
32.5°	17219.9	17232.3	16864.9	16381.9	16068.1	15783.2	15671.8	15849.3	15155.7	14561.2	10750.6
35°	18020.9	18058.0	17707.1	17269.5	16930.9	17129.1	17079.6	17162.1	16831.9	16105.2	11716.7
37.5°	18801.2	18615.4	18239.7	18029.1	17851.6	18177.7	18598.9	18669.0	18731.0	17876.4	12839.6
40°	18929.1	18945.6	18726.8	18875.5	18652.5	19143.8	20122.3	20031.4	20283.3	19536.0	14057.5
42.5°	18747.5	18784.6	18871.3	19081.9	19618.6	20209.0	21662.2	21290.6	21596.1	20931.5	15242.4
45°	18450.2	18297.5	18404.8	19205.7	20134.7	21447.5	23070.0	22781.0	22681.9	22124.6	16654.3
47.5°	17030.0	17186.9	17521.3	18508.0	19903.5	21662.2	24069.1	24003.1	24300.3	23908.1	17938.3
50°	15060.7	14998.8	15642.9	16753.4	18553.4	21241.1	24015.4	24614.1	25254.0	24709.0	18512.2
52.5°	11279.0	11609.3	12162.5	13541.5	16109.4	18945.6	22842.9	23842.0	24362.2	24246.6	18049.8
55°	7129.9	7229.0	7563.4	9202.4	11514.4	15205.2	19581.4	21897.5	22826.4	23259.9	17624.5
57.5°	3463.8	3278.0	3686.7	5003.7	6651.0	10226.3	15102.0	19073.6	21092.5	21876.9	16699.7
60°	1808.3	1878.5	2039.5	2510.1	3439.0	5309.2	9413.0	12711.6	15795.6	17001.1	12658.0
62.5°	1498.6	1523.4	1630.8	1866.1	2287.2	3055.1	4805.6	6196.9	8054.7	9140.5	7200.1
65°	1271.6	1284.0	1399.6	1556.4	1824.8	2150.9	2473.0	2588.6	3133.5	3216.1	2559.7
67.5°	1061.0	1073.4	1197.3	1345.9	1519.3	1606.0	1688.6	1680.3	1742.2	1717.5	1713.3
70°	817.4	829.8	957.8	1114.7	1201.4	1151.8	1407.8	1465.6	1490.4	1511.0	1544.1
72.5°	590.4	615.1	714.2	825.7	780.3	895.9	1160.1	1246.8	1279.8	1292.2	1333.5
75°	429.4	437.6	462.4	429.4	495.4	623.4	817.4	924.8	966.1	978.5	1040.4
77.5°	189.9	194.0	198.2	247.7	317.9	388.1	487.2	573.9	631.7	648.2	664.7
80°	99.1	103.2	128.0	169.3	227.1	284.9	355.1	404.6	441.7	445.9	462.4
82.5°	61.9	66.1	90.8	119.7	161.0	210.6	260.1	301.4	330.3	334.4	338.5
85°	28.9	37.2	53.7	74.3	107.3	136.2	140.4	119.7	128.0	132.1	123.9
87.5°	8.3	12.4	16.5	12.4	16.5	16.5	20.6	24.8	24.8	24.8	28.9
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°	4644.6	4644.6	4644.6	4644.6	4644.6	4644.6	4644.6	4644.6	4644.6	4644.6	4644.6
2.5°	4718.9	4681.7	4537.2	4483.5	4343.2	4367.9	4293.6	4289.5	4273.0	4268.9	4264.7
5°	4834.5	4718.9	4545.5	4413.4	4334.9	4326.7	4273.0	4273.0	4289.5	4301.9	4273.0
7.5°	5024.4	4892.3	4599.1	4475.3	4405.1	4392.7	4355.6	4326.7	4363.8	4351.4	4318.4
10°	5243.2	5012.0	4702.4	4595.0	4479.4	4450.5	4450.5	4462.9	4401.0	4421.6	4388.6
12.5°	5486.8	5177.1	4834.5	4710.6	4574.4	4557.9	4549.6	4458.8	4491.8	4475.3	4392.7
15°	5796.4	5367.0	5003.7	4793.2	4677.6	4603.3	4495.9	4479.4	4458.8	4417.5	4380.3
17.5°	6130.8	5573.5	5082.2	4817.9	4644.6	4590.9	4508.3	4421.6	4359.7	4367.9	4339.0
20°	6415.7	5763.4	5111.1	4842.7	4619.8	4516.6	4388.6	4334.9	4268.9	4264.7	4260.6
22.5°	6754.2	6019.3	5152.4	4776.7	4545.5	4438.1	4351.4	4256.5	4211.1	4153.3	4182.2
25°	7158.8	6118.4	5160.6	4739.5	4491.8	4301.9	4256.5	4153.3	4136.7	4054.2	4070.7
27.5°	7451.9	6172.1	5094.6	4623.9	4367.9	4223.4	4140.9	4066.6	4037.7	3975.7	3959.2
30°	7844.1	6254.7	4954.2	4479.4	4244.1	4083.1	4033.5	4017.0	3934.5	3868.4	3860.1
32.5°	8290.0	6308.3	4863.4	4330.8	4116.1	3992.3	4017.0	3938.6	3835.4	3777.6	3761.1
35°	8645.1	6329.0	4636.3	4161.5	4029.4	3951.0	3922.1	3905.6	3756.9	3703.3	3662.0
37.5°	9185.9	6283.6	4446.4	4041.8	3934.5	3905.6	3880.8	3769.3	3600.0	3521.6	3463.8
40°	9817.6	6271.2	4202.8	3872.5	3843.6	3876.7	3802.3	3628.9	3393.6	3306.9	3265.6
42.5°	10424.4	6357.9	4050.1	3781.7	3744.5	3756.9	3653.7	3393.6	3278.0	3228.5	3162.4
45°	11440.1	6539.5	3798.2	3641.3	3624.8	3616.6	3492.7	3220.2	3154.2	3092.2	3079.9
47.5°	12356.6	6419.8	3637.2	3496.8	3513.3	3467.9	3203.7	3117.0	3042.7	2980.8	2960.1
50°	12410.2	6134.9	3410.1	3385.4	3389.5	3311.1	3059.2	3001.4	2906.5	2865.2	2836.3
52.5°	12129.5	5668.4	3199.6	3207.8	3220.2	3092.2	2881.7	2840.4	2762.0	2704.2	2687.6
55°	11341.0	4941.8	2993.2	3026.2	3059.2	2815.6	2749.6	2646.4	2584.4	2501.9	2506.0
57.5°	9991.0	3979.9	2704.2	2757.8	2828.0	2559.7	2510.1	2382.1	2291.3	2225.3	2217.0
60°	6696.4	2832.1	2270.7	2291.3	2448.2	2340.9	2336.7	2208.7	2084.9	2027.1	1994.1
62.5°	3951.0	2163.3	1961.0	1940.4	1936.3	1998.2	2101.4	2056.0	1895.0	1783.5	1816.5
65°	2068.4	1870.2	1824.8	1754.6	1713.3	1696.8	1775.3	1795.9	1688.6	1568.8	1560.6
67.5°	1738.1	1738.1	1700.9	1676.2	1618.4	1548.2	1498.6	1432.6	1416.1	1383.0	1341.8
70°	1581.2	1622.5	1610.1	1552.3	1502.8	1424.3	1296.3	1189.0	1085.8	1048.6	1073.4
72.5°	1378.9	1420.2	1420.2	1391.3	1325.2	1205.5	1081.7	957.8	871.1	805.1	796.8
75°	1061.0	1081.7	1131.2	1098.2	1011.5	937.2	809.2	681.2	598.6	536.7	524.3
77.5°	677.1	710.1	710.1	706.0	644.0	573.9	491.3	400.5	338.5	293.1	280.7
80°	450.0	470.6	487.2	470.6	429.4	375.7	313.8	251.8	206.4	169.3	161.0
82.5°	330.3	355.1	367.4	350.9	309.6	268.4	222.9	177.5	132.1	103.2	95.0
85°	128.0	132.1	148.6	177.5	173.4	169.3	136.2	99.1	74.3	53.7	49.5
87.5°	33.0	28.9	33.0	33.0	28.9	24.8	24.8	24.8	24.8	12.4	16.5
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)