

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: P651417

Luminaire Tested: **GALN-SA5D-840-U-T2R-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P651417  
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-840-U-T2R-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 80 CRI, 4000K, 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: 28630.2 lumens  
Efficiency: N/A  
Efficacy: 92.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3

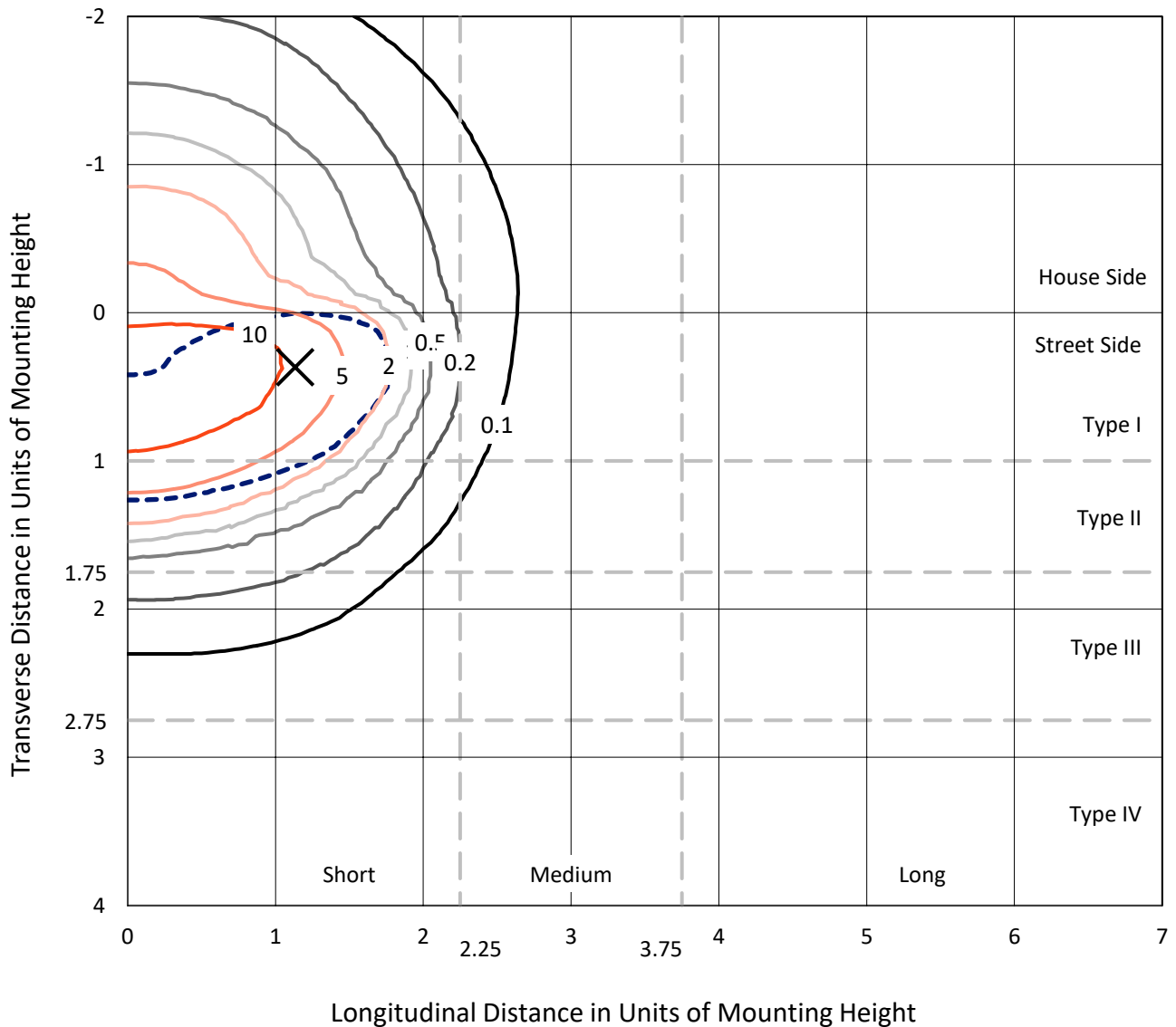
Input Watts (W): 309  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

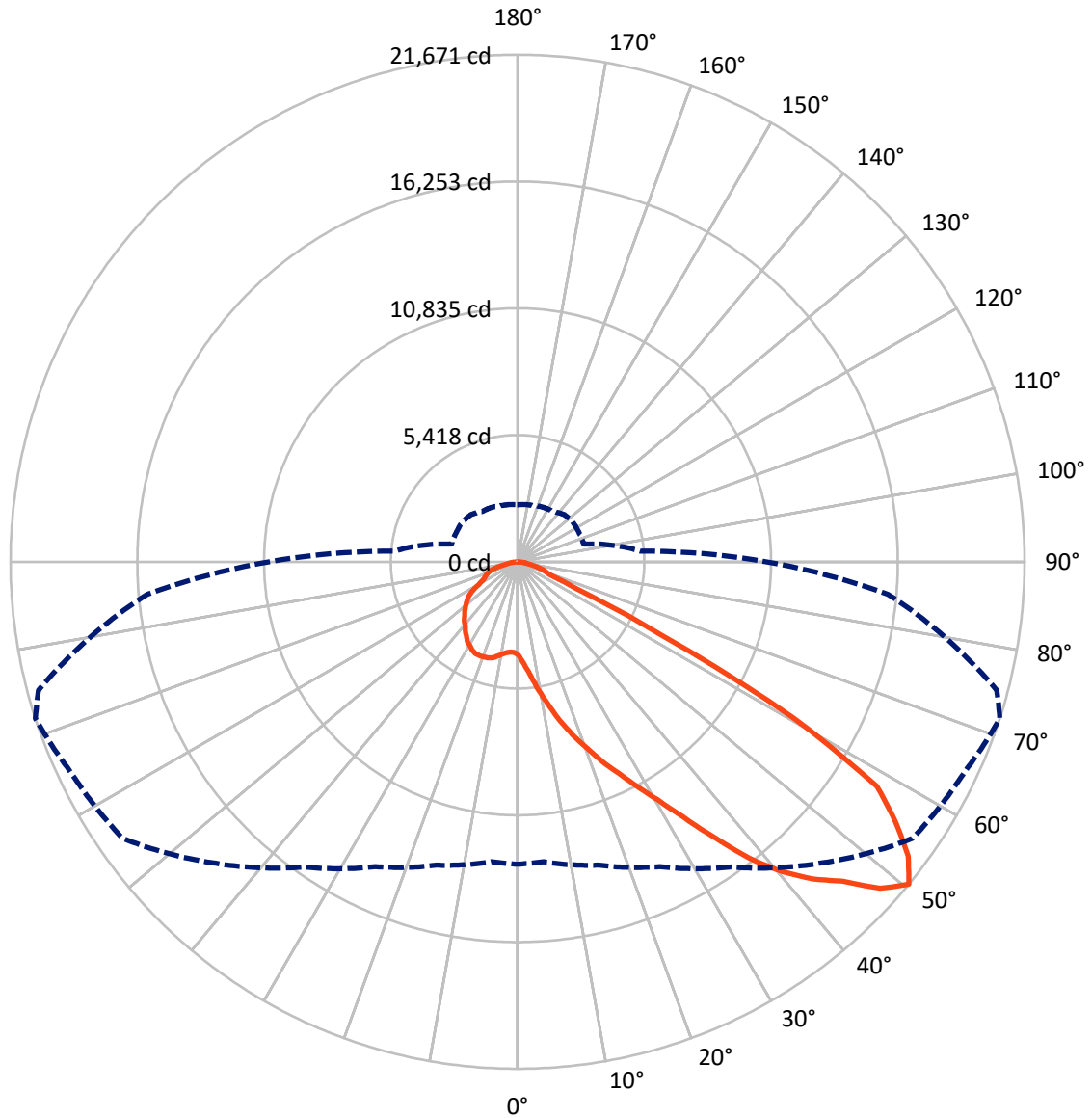
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.3 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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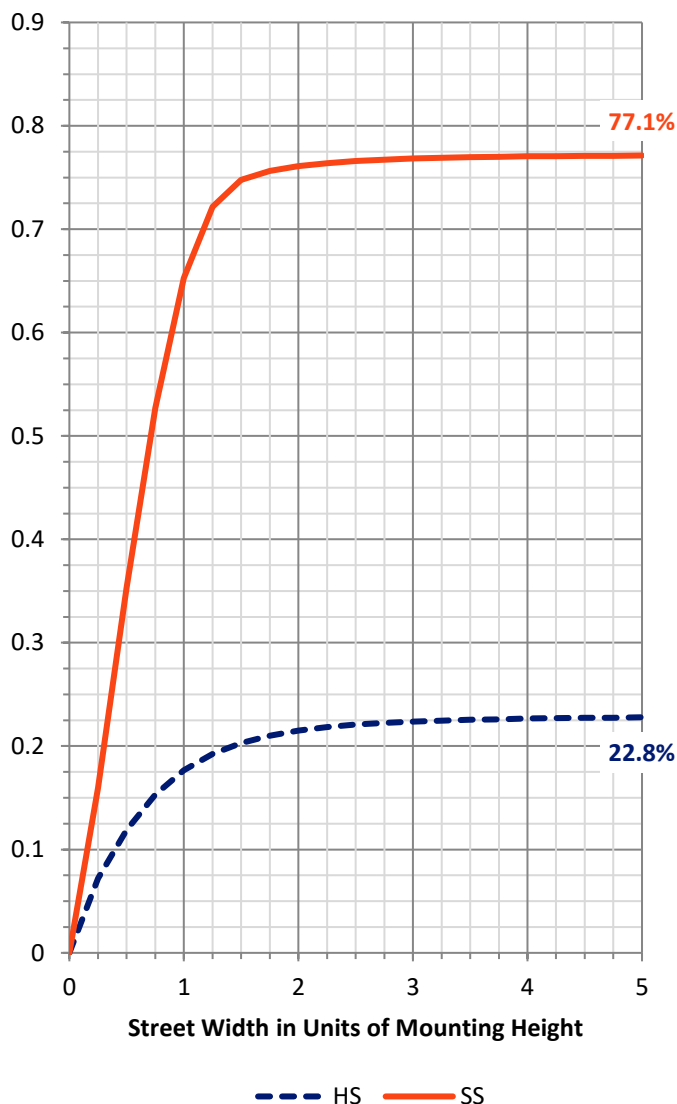
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6559.3	0.0	6559.3
	% Fixture	22.9	0.0	22.9
<b>Street Side</b>	Lumens	22070.8	0.0	22070.8
	% Fixture	77.1	0.0	77.1
<b>Total</b>	Lumens	28630.2	0.0	28630.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	468.8	1.6
10°-20°	1752.5	6.1
20°-30°	3398.1	11.9
30°-40°	5629.4	19.7
40°-50°	7876.8	27.5
50°-60°	6645.1	23.2
60°-70°	2025.4	7.1
70°-80°	710.6	2.5
80°-90°	123.5	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°	28630.2	100.0
0°-180°	28630.2	100.0

**Coefficient of Utilization**

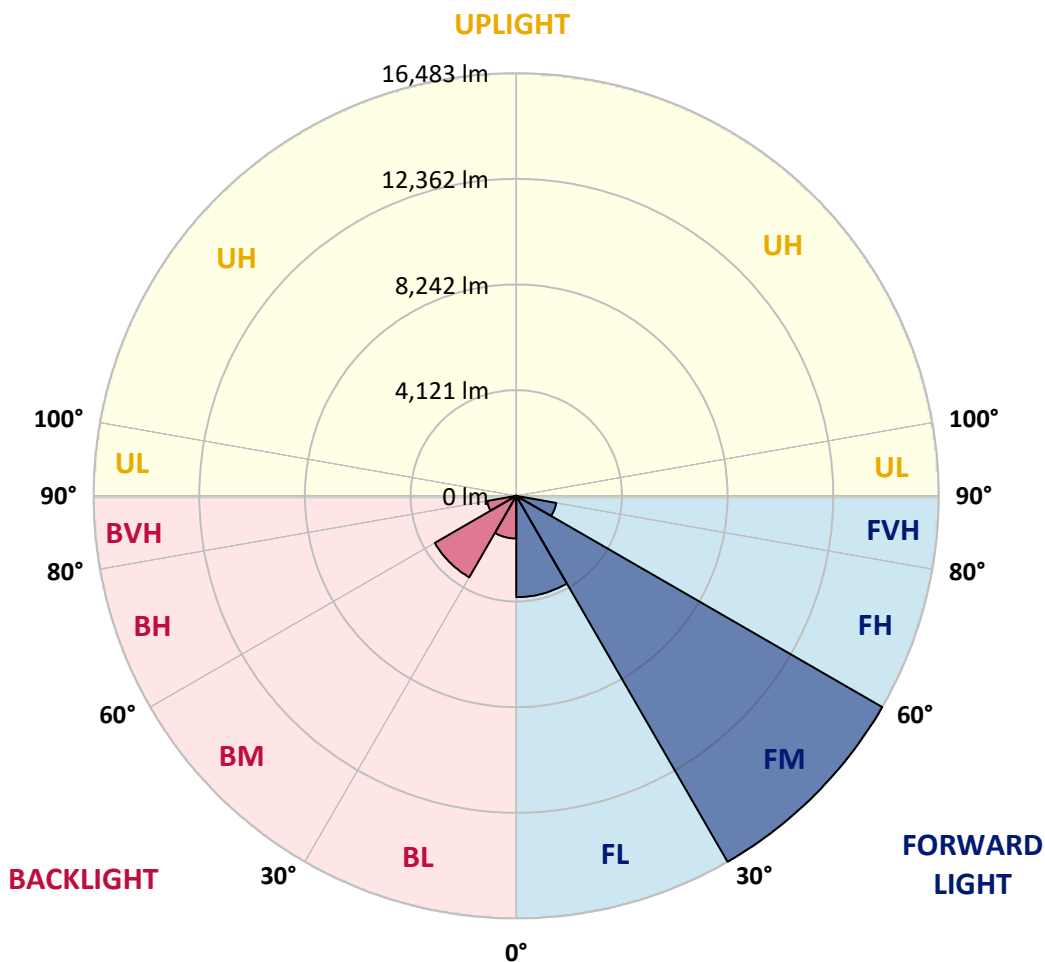


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3952.0	13.8			
FM (30°-60°)	16483.2	57.6			
FH (60°-80°)	1580.3	5.5			G1/1800
FVH (80°-90°)	55.3	0.2			G1/100
BL (0°-30°)	1667.4	5.8	B3/2500		
BM (30°-60°)	3668.1	12.8	B3/5000		
BH (60°-80°)	1155.6	4.0	B3/2500		G3/2500
BVH (80°-90°)	68.2	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°	3985.6	3985.6	3985.6	3985.6	3985.6	3985.6	3985.6	3985.6	3985.6	3985.6	3985.6
2.5°	5126.3	5094.4	4998.8	4966.9	4853.5	4648.0	4577.2	4368.2	4279.6	4198.1	4102.5
5°	6483.2	6334.4	6323.7	6143.1	5880.9	5728.6	5275.1	4970.5	4690.6	4548.9	4286.7
7.5°	7347.6	7351.2	7351.2	7202.3	6993.3	6607.1	6199.8	5650.7	5229.1	5020.0	4573.7
10°	8169.6	8098.7	8059.7	8045.5	7903.8	7528.3	7092.5	6412.3	5834.9	5590.4	4789.7
12.5°	8750.5	8690.3	8778.9	8732.8	8630.1	8385.6	7974.7	7198.8	6476.1	6146.6	5136.9
15°	9026.9	9069.3	9140.2	9267.7	9221.7	9129.6	8676.1	8006.6	7166.9	6794.9	5445.1
17.5°	9452.0	9335.1	9420.1	9579.5	9707.1	9664.5	9405.9	8591.1	7850.7	7393.7	5859.7
20°	9749.5	9682.3	9724.7	9909.0	10004.6	10245.6	10110.9	9356.3	8506.0	8024.2	6348.5
22.5°	10599.8	10500.6	10362.5	10390.8	10426.2	10596.3	10628.1	10195.9	9267.7	8757.6	6812.7
25°	11648.4	11556.3	11393.4	11226.9	11124.2	11092.3	11202.1	10854.9	9997.6	9469.7	7312.2
27.5°	12803.4	12647.5	12544.8	12201.1	11924.8	11882.3	11829.2	11641.4	10862.0	10291.6	7875.5
30°	13926.5	13802.4	13664.3	13115.1	12828.2	12782.1	12520.0	12573.1	11800.8	11166.6	8513.2
32.5°	14776.7	14787.3	14472.0	14057.5	13788.3	13543.8	13448.2	13600.5	13005.3	12495.2	9225.3
35°	15464.0	15495.8	15194.8	14819.2	14528.7	14698.7	14656.3	14727.1	14443.7	13820.2	10054.2
37.5°	16133.6	15974.1	15651.8	15471.0	15318.7	15598.6	15960.0	16020.2	16073.4	15340.0	11017.9
40°	16243.4	16257.5	16069.8	16197.3	16006.0	16427.6	17267.2	17189.3	17405.4	16764.2	12063.0
42.5°	16087.5	16119.4	16193.8	16374.4	16835.1	17341.6	18588.7	18269.8	18531.9	17961.6	13079.7
45°	15832.4	15701.4	15793.5	16480.7	17277.8	18404.4	19796.7	19548.7	19463.7	18985.5	14291.4
47.5°	14613.7	14748.4	15035.3	15882.0	17079.4	18588.7	20654.0	20597.4	20852.4	20515.9	15393.2
50°	12923.8	12870.7	13423.4	14376.4	15921.0	18227.3	20608.0	21121.7	21670.8	21203.2	15885.6
52.5°	9678.7	9962.1	10436.9	11620.1	13823.7	16257.5	19601.9	20459.3	20905.6	20806.4	15488.8
55°	6118.3	6203.3	6490.2	7896.7	9880.7	13047.9	16803.1	18790.6	19587.7	19959.7	15123.9
57.5°	2972.3	2812.9	3163.7	4293.8	5707.4	8775.3	12959.3	16367.4	18099.7	18772.9	14330.3
60°	1551.7	1611.9	1750.1	2154.0	2951.1	4555.9	8077.4	10908.0	13554.5	14588.9	10862.0
62.5°	1286.0	1307.3	1399.3	1601.3	1962.6	2621.6	4123.8	5317.6	6911.8	7843.6	6178.5
65°	1091.2	1101.8	1200.9	1335.6	1565.9	1845.7	2122.1	2221.2	2688.9	2759.7	2196.5
67.5°	910.5	921.1	1027.4	1154.9	1303.7	1378.1	1449.0	1441.9	1495.0	1473.8	1470.2
70°	701.5	712.1	821.9	956.6	1030.9	988.4	1208.1	1257.6	1278.9	1296.7	1325.0
72.5°	506.6	527.9	612.9	708.5	669.6	768.8	995.5	1069.9	1098.3	1108.9	1144.3
75°	368.4	375.5	396.8	368.4	425.1	535.0	701.5	793.6	829.0	839.7	892.8
77.5°	163.0	166.5	170.1	212.6	272.8	333.0	418.1	492.4	542.0	556.2	570.4
80°	85.0	88.6	109.8	145.2	194.9	244.5	304.7	347.2	379.0	382.7	396.8
82.5°	53.2	56.7	78.0	102.8	138.2	180.6	223.2	258.6	283.4	286.9	290.5
85°	24.8	31.9	46.1	63.7	92.1	116.9	120.4	102.8	109.8	113.4	106.3
87.5°	7.1	10.6	14.2	10.6	14.2	14.2	17.7	21.3	21.3	21.3	24.8
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°	3985.6	3985.6	3985.6	3985.6	3985.6	3985.6	3985.6	3985.6	3985.6	3985.6	3985.6
2.5°	4049.3	4017.5	3893.5	3847.4	3727.0	3748.2	3684.4	3680.9	3666.7	3663.1	3659.6
5°	4148.6	4049.3	3900.6	3787.2	3719.8	3712.8	3666.7	3666.7	3680.9	3691.5	3666.7
7.5°	4311.5	4198.1	3946.6	3840.3	3780.1	3769.4	3737.6	3712.8	3744.6	3734.0	3705.7
10°	4499.3	4300.9	4035.2	3943.0	3843.9	3819.1	3819.1	3829.7	3776.5	3794.3	3765.9
12.5°	4708.3	4442.6	4148.6	4042.3	3925.4	3911.2	3904.1	3826.1	3854.5	3840.3	3769.4
15°	4974.0	4605.6	4293.8	4113.1	4013.9	3950.2	3858.0	3843.9	3826.1	3790.7	3758.8
17.5°	5261.0	4782.7	4361.1	4134.4	3985.6	3939.5	3868.7	3794.3	3741.1	3748.2	3723.4
20°	5505.4	4945.7	4385.9	4155.6	3964.3	3875.7	3765.9	3719.8	3663.1	3659.6	3656.1
22.5°	5795.9	5165.3	4421.3	4098.9	3900.6	3808.5	3734.0	3652.5	3613.6	3564.0	3588.8
25°	6143.1	5250.3	4428.4	4067.1	3854.5	3691.5	3652.5	3564.0	3549.8	3479.0	3493.1
27.5°	6394.6	5296.4	4371.7	3967.8	3748.2	3624.2	3553.3	3489.6	3464.8	3411.6	3397.5
30°	6731.2	5367.3	4251.3	3843.9	3642.0	3503.8	3461.2	3447.1	3376.2	3319.5	3312.4
32.5°	7113.8	5413.3	4173.3	3716.3	3532.1	3425.8	3447.1	3379.7	3291.2	3241.6	3227.4
35°	7418.5	5431.0	3978.5	3571.1	3457.7	3390.4	3365.6	3351.4	3223.9	3177.8	3142.4
37.5°	7882.5	5392.0	3815.5	3468.3	3376.2	3351.4	3330.2	3234.5	3089.2	3022.0	2972.3
40°	8424.6	5381.4	3606.5	3323.0	3298.2	3326.6	3262.8	3114.1	2912.1	2837.7	2802.3
42.5°	8945.4	5455.8	3475.4	3245.2	3213.2	3223.9	3135.3	2912.1	2812.9	2770.4	2713.7
45°	9816.9	5611.7	3259.3	3124.7	3110.5	3103.5	2997.2	2763.4	2706.7	2653.5	2642.8
47.5°	10603.3	5509.0	3121.1	3000.7	3014.8	2975.9	2749.1	2674.7	2611.0	2557.8	2540.2
50°	10649.4	5264.5	2926.3	2905.1	2908.6	2841.2	2625.2	2575.6	2494.1	2458.7	2433.9
52.5°	10408.6	4864.2	2745.6	2752.7	2763.4	2653.5	2472.8	2437.4	2370.1	2320.5	2306.3
55°	9731.9	4240.7	2568.5	2596.8	2625.2	2416.1	2359.4	2270.9	2217.7	2146.9	2150.4
57.5°	8573.4	3415.2	2320.5	2366.6	2426.8	2196.5	2154.0	2044.1	1966.2	1909.5	1902.4
60°	5746.3	2430.3	1948.5	1966.2	2100.8	2008.7	2005.2	1895.4	1789.1	1739.4	1711.1
62.5°	3390.4	1856.4	1682.8	1665.1	1661.6	1714.7	1803.3	1764.2	1626.1	1530.5	1558.8
65°	1774.9	1604.9	1565.9	1505.6	1470.2	1456.0	1523.4	1541.0	1449.0	1346.3	1339.1
67.5°	1491.5	1491.5	1459.6	1438.4	1388.7	1328.5	1286.0	1229.3	1215.2	1186.8	1151.4
70°	1356.9	1392.3	1381.7	1332.1	1289.6	1222.2	1112.4	1020.3	931.7	899.9	921.1
72.5°	1183.3	1218.7	1218.7	1193.9	1137.2	1034.5	928.2	821.9	747.5	690.8	683.7
75°	910.5	928.2	970.7	942.3	868.0	804.2	694.4	584.6	513.7	460.5	449.9
77.5°	581.0	609.4	609.4	605.8	552.7	492.4	421.6	343.6	290.5	251.5	240.9
80°	386.2	403.8	418.1	403.8	368.4	322.4	269.3	216.1	177.1	145.2	138.2
82.5°	283.4	304.7	315.3	301.2	265.7	230.3	191.3	152.3	113.4	88.6	81.5
85°	109.8	113.4	127.6	152.3	148.8	145.2	116.9	85.0	63.7	46.1	42.6
87.5°	28.3	24.8	28.3	28.3	24.8	21.3	21.3	21.3	21.3	10.6	14.2
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)