

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: P648625

Luminaire Tested: **GALN-SA8B-835-U-T4FT**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P648625
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-28)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8B-835-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35898.2 lumens
Efficiency: N/A
Efficacy: 110.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

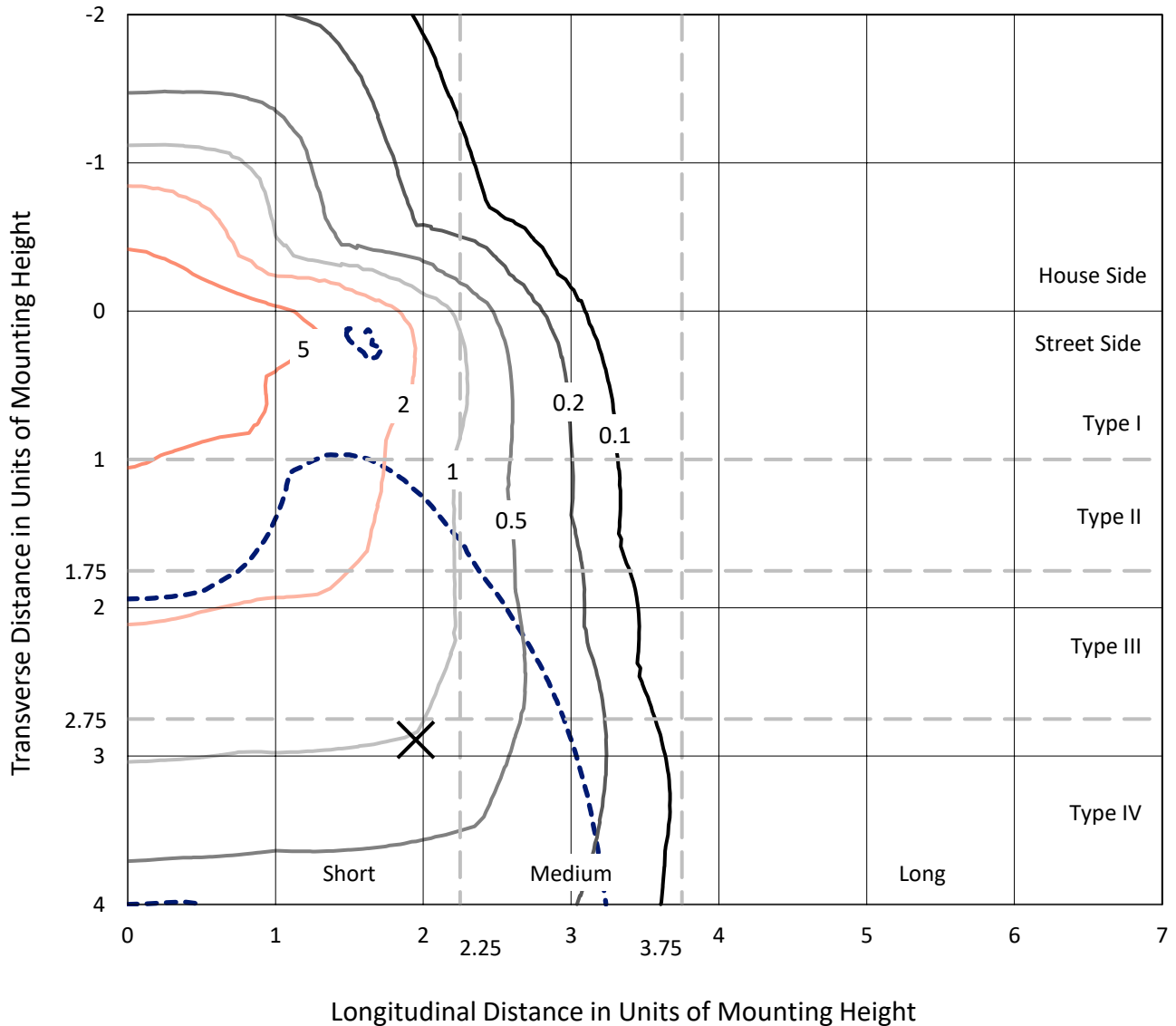
Input Watts (W): 325
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

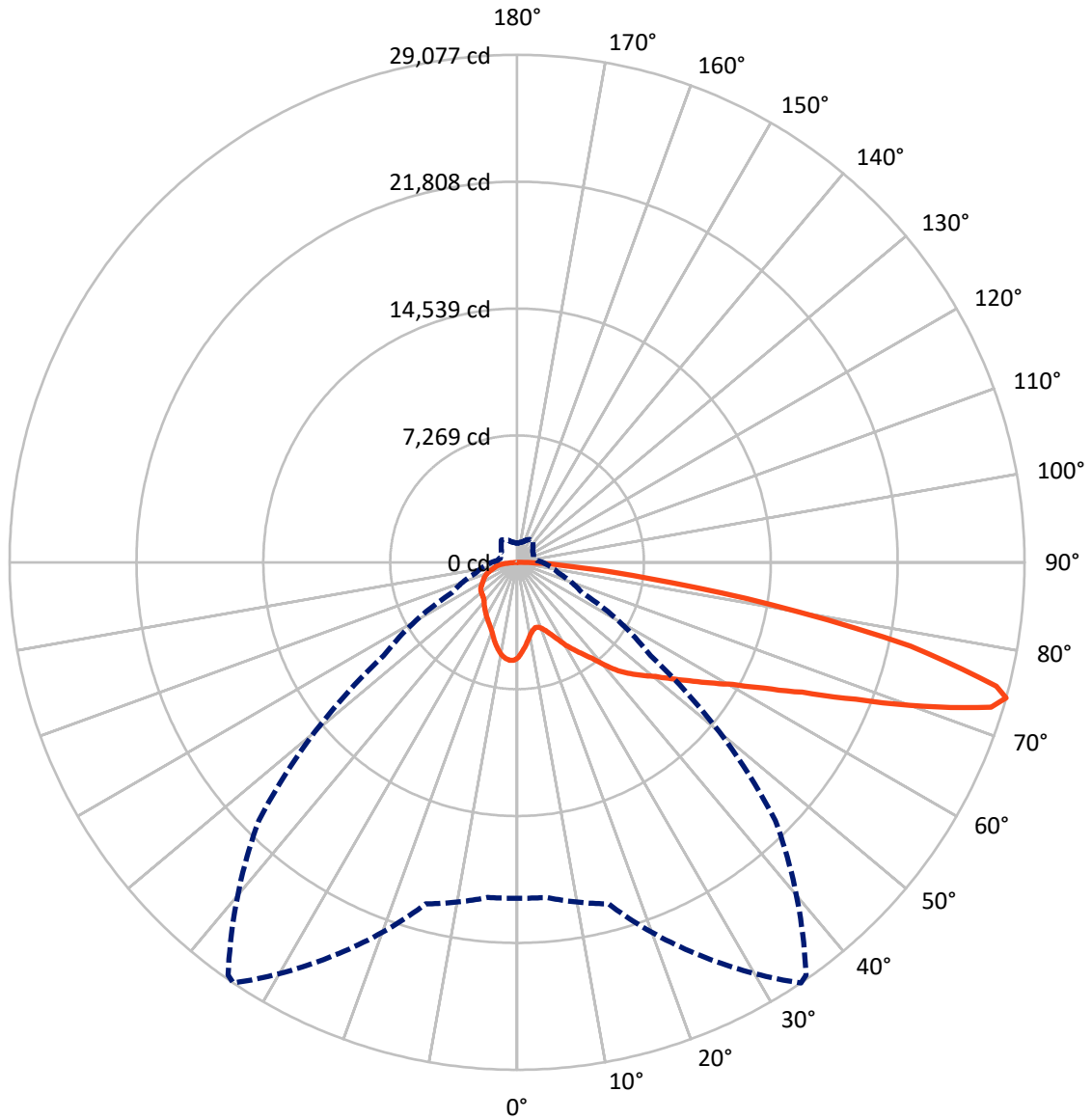
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.8 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral - - - Horizontal Cone Through 74-Deg Vertical

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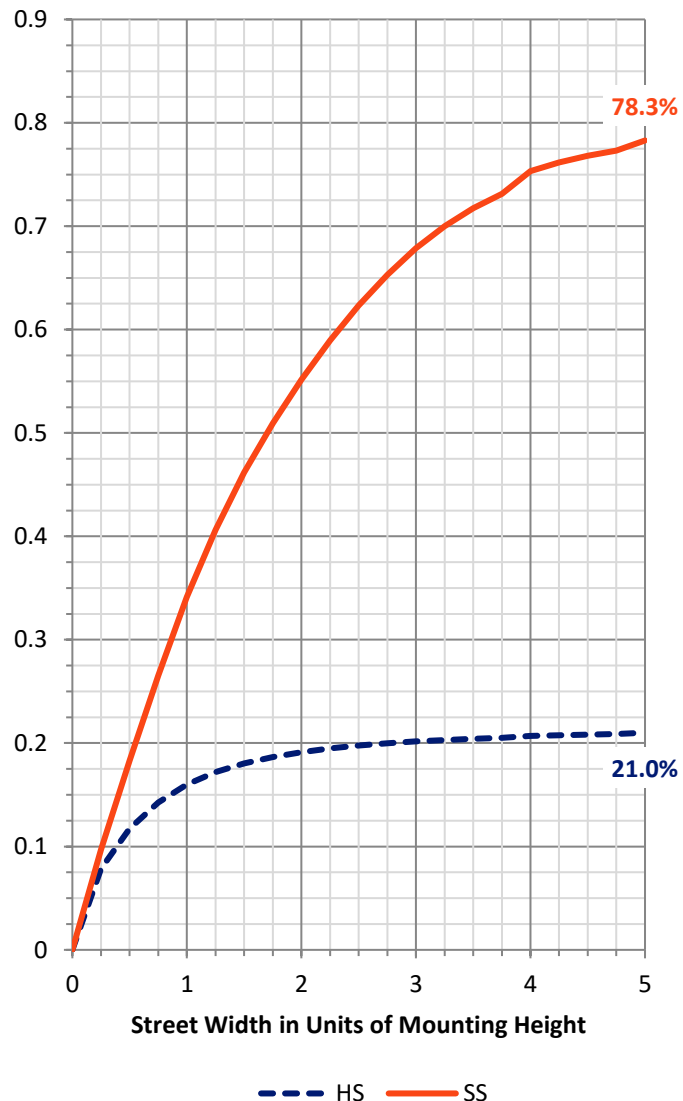
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7639.4	0.0	7639.4
	% Fixture	21.3	0.0	21.3
Street Side	Lumens	28258.8	0.0	28258.8
	% Fixture	78.7	0.0	78.7
Total	Lumens	35898.2	0.0	35898.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	498.5	1.4
10°-20°	1364.5	3.8
20°-30°	2249.8	6.3
30°-40°	3369.9	9.4
40°-50°	4898.9	13.6
50°-60°	6842.6	19.1
60°-70°	8566.6	23.9
70°-80°	7083.9	19.7
80°-90°	1023.6	2.9
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°	35898.2	100.0
0°-180°	35898.2	100.0

Coefficient of Utilization

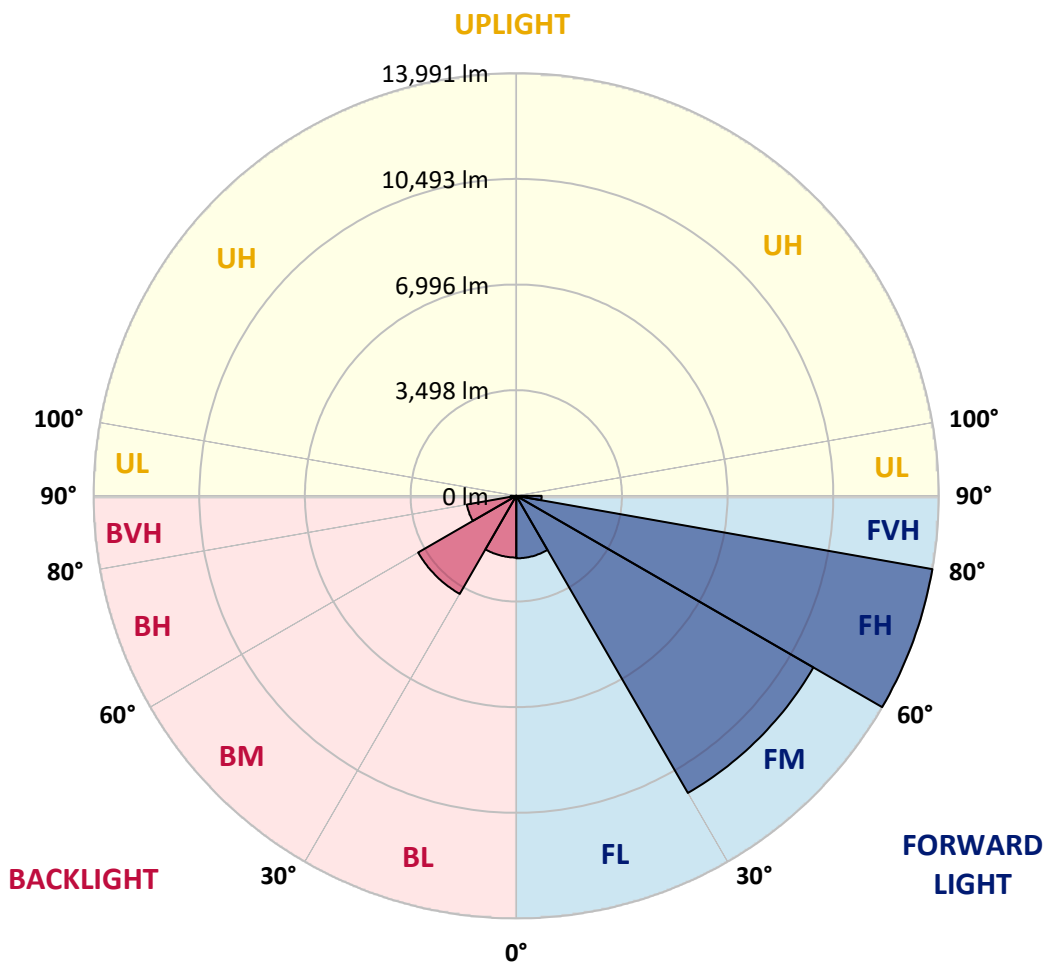


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2069.4	5.8			
FM (30°-60°)	11359.7	31.6			
FH (60°-80°)	13991.2	39.0			G5
FVH (80°-90°)	838.5	2.3			G5
BL (0°-30°)	2043.4	5.7	B3/2500		
BM (30°-60°)	3751.7	10.5	B3/5000		
BH (60°-80°)	1659.2	4.6	B3/2500		G3/2500
BVH (80°-90°)	185.0	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	5480.9	5480.9	5480.9	5480.9	5480.9	5480.9	5480.9	5480.9	5480.9	5480.9	5480.9
2.5°	5065.3	5091.1	5105.1	5154.8	5166.7	5182.6	5224.4	5280.1	5351.6	5415.3	5471.0
5°	4643.7	4683.4	4707.3	4751.1	4836.6	4844.6	4955.9	5083.2	5228.4	5363.6	5475.0
7.5°	4243.9	4287.7	4307.6	4387.1	4500.5	4518.4	4681.5	4882.3	5125.0	5329.8	5500.8
10°	3943.7	3965.5	4009.3	4068.9	4204.2	4216.1	4428.9	4697.4	5011.6	5313.9	5544.6
12.5°	3780.6	3792.5	3802.5	3866.1	3999.3	4017.3	4239.9	4544.2	4922.1	5325.8	5616.1
15°	3804.4	3808.4	3764.7	3776.6	3884.0	3909.8	4130.6	4442.8	4866.4	5355.6	5723.6
17.5°	4005.3	3991.4	3884.0	3828.3	3903.9	3915.8	4108.7	4403.0	4840.6	5411.3	5834.9
20°	4321.5	4301.6	4116.7	3993.4	4037.1	4047.1	4180.3	4432.9	4866.4	5502.8	6008.0
22.5°	4715.3	4707.3	4426.9	4277.8	4275.8	4275.8	4345.4	4540.3	4944.0	5628.1	6188.9
25°	5266.1	5224.4	4858.4	4665.6	4611.9	4607.9	4600.0	4717.3	5043.5	5761.4	6403.7
27.5°	5831.0	5759.4	5433.2	5136.9	5021.5	5007.6	4955.9	4967.8	5170.7	5912.5	6648.3
30°	6338.1	6292.3	5986.1	5658.0	5520.7	5488.9	5345.7	5280.1	5383.5	6185.0	7038.2
32.5°	6725.9	6698.0	6459.4	6161.1	5958.2	5952.3	5743.5	5689.7	5715.6	6515.1	7483.6
35°	7040.1	7050.1	6928.8	6670.2	6437.5	6403.7	6264.5	6196.9	6121.3	6992.3	8044.4
37.5°	7469.7	7491.6	7483.6	7260.8	6976.5	6984.4	6952.6	6841.2	6640.4	7525.3	8666.9
40°	7943.0	7958.9	7956.9	7871.4	7722.3	7730.2	7718.3	7591.0	7290.7	8203.5	9359.0
42.5°	8597.3	8521.7	8324.9	8410.4	8497.8	8535.6	8617.1	8495.9	8084.2	8927.5	10009.3
45°	9329.1	9185.9	8740.5	8780.2	9104.4	9176.0	9625.5	9458.4	8945.3	9758.7	10774.9
47.5°	9790.6	9649.3	9273.5	9265.5	9695.1	9764.6	10560.2	10498.5	9728.9	10655.6	11709.7
50°	10202.2	10182.3	9758.7	9860.2	10279.8	10383.2	11578.4	11520.7	10510.4	11713.6	12727.9
52.5°	10812.8	10651.6	10313.6	10522.3	11077.3	11212.5	12588.7	12419.6	11228.4	12648.3	13716.3
55°	11087.2	11049.4	11029.5	11210.4	11972.1	12069.6	13571.1	13183.3	11840.9	13439.9	14468.0
57.5°	11821.0	11751.4	11948.3	12071.6	13026.2	13175.4	14597.3	13980.8	12377.9	14068.3	14833.9
60°	12771.7	12733.9	12914.8	13137.6	14203.5	14430.2	15766.6	14661.0	12809.4	14384.5	14633.1
62.5°	14191.6	14187.6	14153.8	14631.1	15872.0	16080.9	17109.1	15323.2	12877.1	14147.9	13595.0
65°	16228.1	16156.4	15862.1	16383.2	17948.3	18192.9	18507.1	15693.1	12469.4	12932.7	11447.1
67.5°	18358.0	18354.0	18115.3	18791.5	20929.4	21182.0	20255.3	15611.5	11337.8	10476.6	8130.0
70°	20124.0	20038.5	20342.7	22144.5	24737.9	25030.2	21784.5	14651.0	9030.8	6918.8	4830.6
72.5°	20547.6	20551.6	21184.0	24729.9	28395.1	28440.8	22335.5	11874.7	6043.7	3816.3	2416.3
74°	19243.0	19276.8	20257.2	24859.2	29077.3	28870.4	20927.4	9333.1	4086.9	2491.9	1742.1
75°	17564.5	17351.7	18769.7	23998.0	28369.3	28146.5	19278.8	7489.6	3118.3	1990.7	1525.4
77.5°	9390.8	9607.6	11795.2	17908.5	23047.4	22790.9	13072.0	3591.6	1684.5	1386.1	1097.8
80°	3343.1	3687.1	5182.6	9370.9	14776.3	14855.9	6238.6	1646.6	1185.3	1022.2	775.6
82.5°	1364.3	1402.0	2225.4	4158.4	7503.5	7575.1	2547.6	978.4	847.2	704.0	463.4
85°	533.0	548.9	984.4	1869.4	3201.8	3410.7	881.0	517.1	521.1	403.7	236.6
87.5°	179.0	202.9	403.7	622.5	1087.8	1066.0	256.5	153.2	186.9	175.0	73.6
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°	5480.9	5480.9	5480.9	5480.9	5480.9	5480.9	5480.9	5480.9	5480.9	5480.9	5480.9
2.5°	5498.9	5536.6	5562.5	5590.3	5616.1	5624.1	5618.2	5636.0	5638.1	5640.0	5642.1
5°	5530.6	5582.4	5632.1	5659.9	5671.9	5662.0	5628.1	5610.2	5594.3	5582.4	5586.3
7.5°	5574.4	5648.0	5693.7	5705.6	5673.9	5628.1	5544.6	5479.0	5437.2	5409.4	5407.4
10°	5642.1	5713.6	5751.4	5717.6	5630.1	5518.7	5387.5	5264.2	5170.7	5142.8	5140.9
12.5°	5727.6	5809.1	5807.1	5707.7	5554.5	5355.6	5142.8	4999.7	4872.4	4808.7	4834.6
15°	5838.9	5900.5	5842.9	5663.9	5421.3	5148.9	4886.3	4691.4	4548.2	4480.6	4484.6
17.5°	5968.2	6021.9	5868.7	5586.3	5234.4	4884.4	4580.1	4395.1	4281.8	4232.0	4228.0
20°	6129.2	6145.2	5868.7	5451.1	4993.7	4576.1	4285.8	4156.5	4092.8	4067.0	4074.9
22.5°	6302.3	6270.5	5837.0	5260.2	4677.5	4253.9	4059.0	4001.4	3969.5	3965.5	3969.5
25°	6497.2	6407.7	5771.3	5001.6	4347.4	3975.4	3862.1	3872.1	3878.0	3878.0	3892.0
27.5°	6735.8	6556.8	5662.0	4675.5	3961.6	3716.9	3685.1	3754.7	3786.5	3792.5	3802.5
30°	7050.1	6719.9	5480.9	4267.8	3633.4	3484.3	3539.9	3633.4	3669.2	3691.1	3687.1
32.5°	7423.9	6898.9	5236.3	3860.1	3368.9	3321.2	3388.8	3484.3	3524.0	3535.9	3520.1
35°	7863.4	7101.7	4914.2	3478.3	3138.2	3166.1	3245.6	3275.4	3311.2	3311.2	3319.2
37.5°	8336.8	7264.8	4520.4	3128.2	2959.3	3060.7	3118.3	3090.5	3074.6	3054.7	3064.7
40°	8818.1	7386.1	4009.3	2782.2	2780.3	2951.3	2967.2	2887.6	2824.0	2804.1	2794.1
42.5°	9237.7	7461.8	3547.9	2513.7	2611.2	2843.9	2855.8	2728.5	2627.1	2567.5	2547.6
45°	9732.8	7549.2	3096.5	2291.1	2454.1	2758.4	2788.2	2617.2	2468.0	2342.7	2310.9
47.5°	10411.0	7748.1	2740.5	2118.0	2340.7	2704.6	2746.5	2525.7	2328.8	2165.7	2139.9
50°	11176.7	8020.6	2464.0	2000.6	2253.2	2657.0	2708.6	2432.2	2199.5	2018.6	1998.7
52.5°	11878.7	8167.7	2225.4	1895.3	2167.7	2569.4	2658.9	2364.6	2072.3	1871.4	1853.5
55°	12262.5	7929.0	1990.7	1791.8	2050.4	2456.1	2589.3	2271.2	1949.0	1793.9	1768.0
57.5°	12314.2	7435.8	1778.0	1680.5	1927.1	2316.9	2460.0	2157.8	1869.4	1740.1	1718.3
60°	11914.5	6700.1	1612.8	1589.0	1801.8	2159.7	2314.9	2058.4	1787.9	1680.5	1658.6
62.5°	10920.1	5900.5	1497.5	1505.5	1674.5	1994.7	2207.5	1962.9	1710.3	1614.9	1595.0
65°	9209.8	4870.4	1386.1	1420.0	1561.1	1865.4	2110.0	1883.3	1632.7	1565.1	1547.2
67.5°	6397.7	3516.1	1294.7	1330.5	1453.8	1734.2	1996.6	1797.8	1545.3	1509.5	1481.6
70°	3541.9	2163.7	1187.3	1229.1	1342.4	1587.0	1869.4	1668.6	1417.9	1402.0	1362.3
72.5°	1861.4	1378.2	1066.0	1111.7	1191.3	1398.0	1674.5	1527.3	1292.7	1225.1	1173.3
74°	1453.8	1129.6	984.4	1032.2	1085.9	1286.7	1559.2	1425.9	1203.2	1123.6	1083.8
75°	1266.8	1006.3	914.8	976.5	1024.2	1211.1	1469.7	1354.4	1153.4	1077.9	1042.1
77.5°	894.9	753.7	747.8	821.4	847.2	1062.0	1324.5	1233.0	1028.2	948.6	914.8
80°	628.4	564.8	592.7	638.4	674.2	938.7	1229.1	1066.0	843.2	749.7	737.8
82.5°	409.7	369.9	423.6	465.3	477.3	692.1	992.4	809.4	614.5	499.2	463.4
85°	188.9	184.9	242.7	236.6	234.7	338.1	588.7	473.3	354.0	264.5	248.6
87.5°	47.8	45.7	59.7	49.7	59.7	51.7	53.7	13.9	2.0	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)