

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: P648152

Luminaire Tested: **GALN-SA9A-835-U-SL2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P648152
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-14)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9A-835-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32402.9 lumens
Efficiency: N/A
Efficacy: 118.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

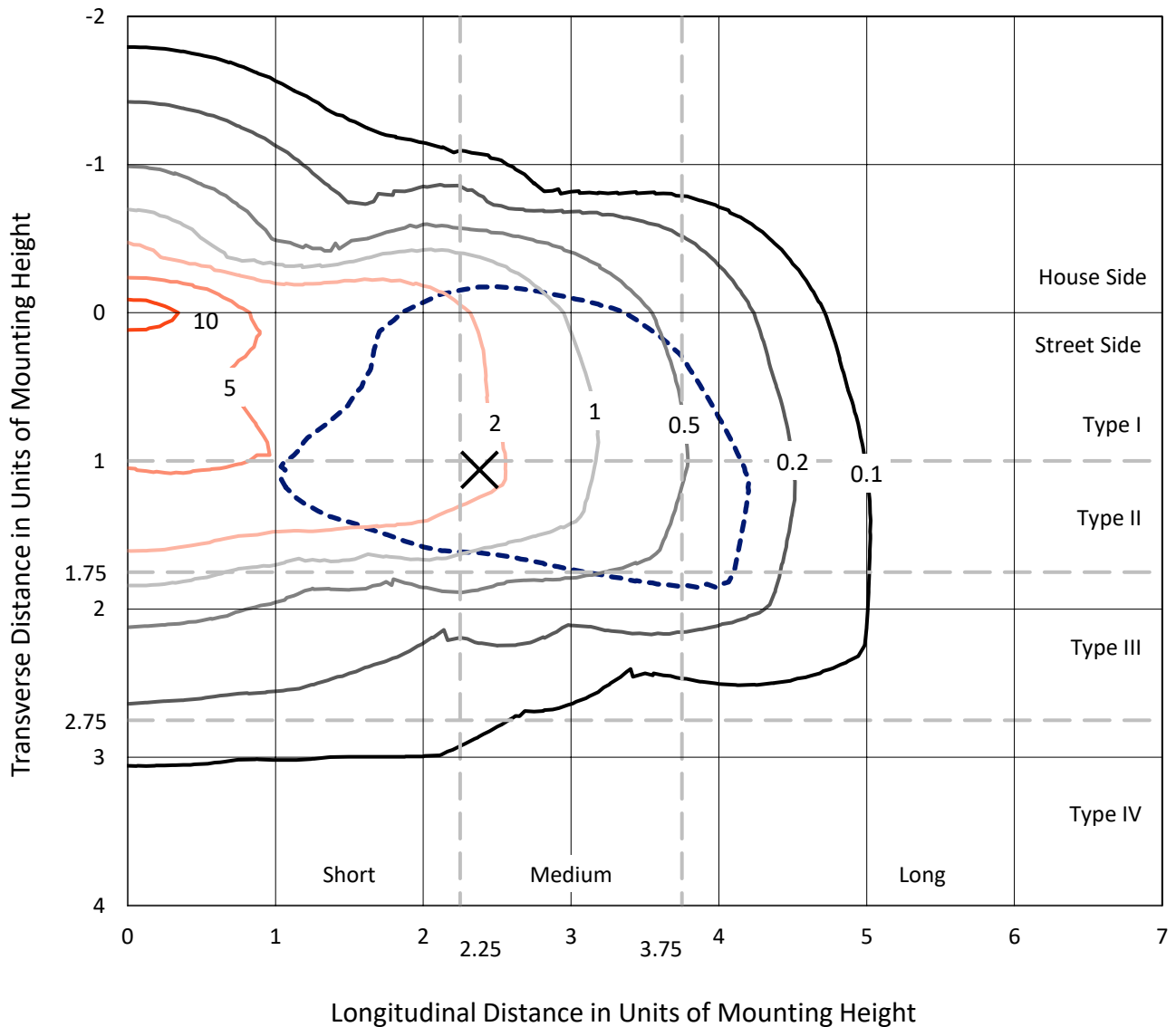
Input Watts (W): 274
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

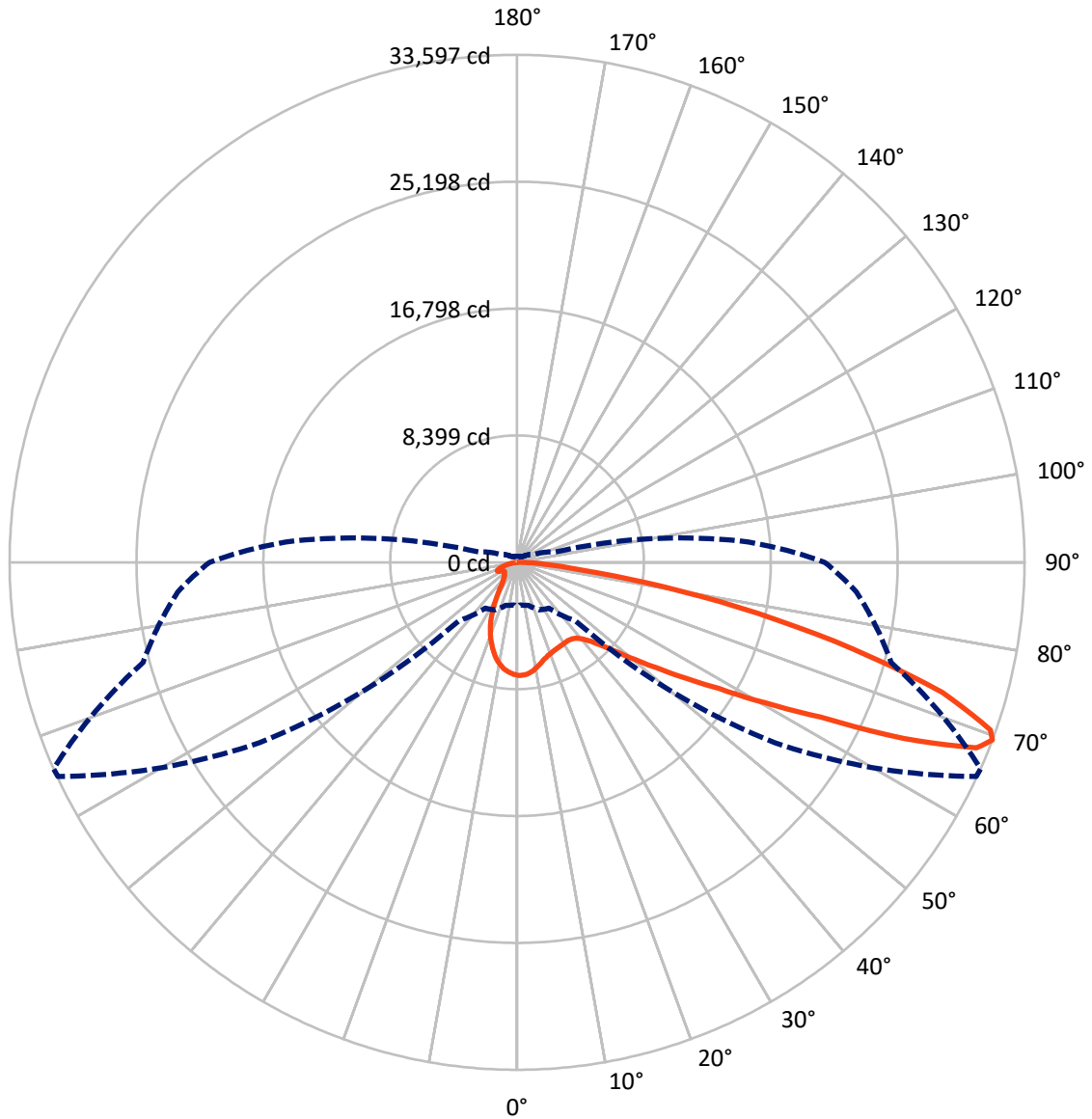
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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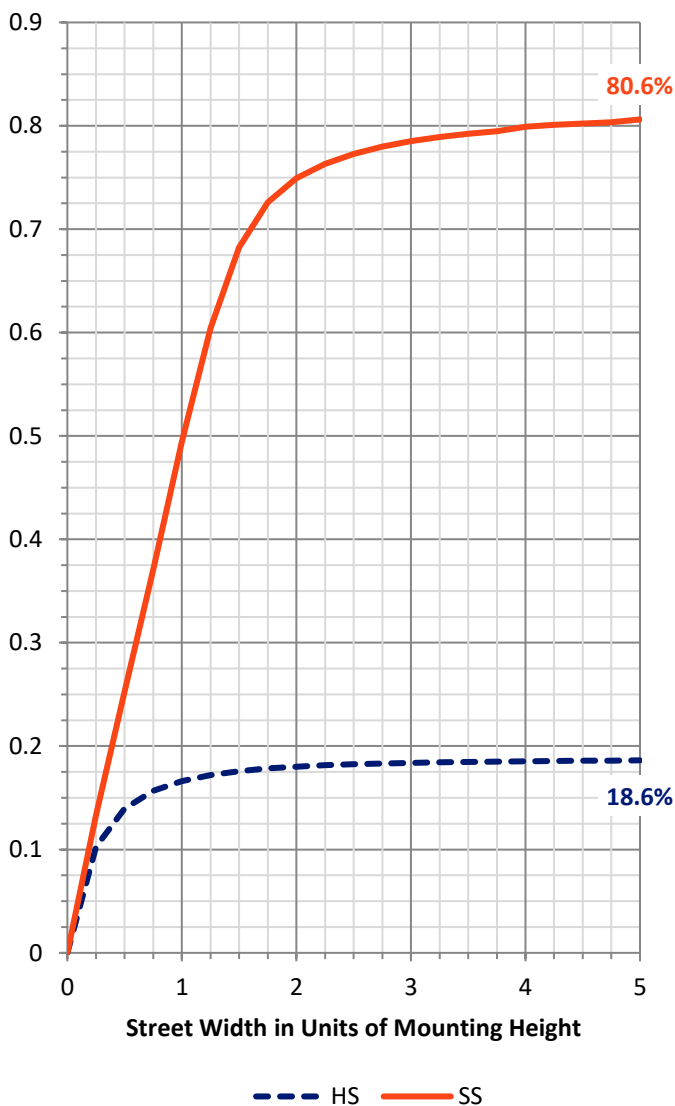
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6093.8	0.0	6093.8
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	26309.1	0.0	26309.1
	% Fixture	81.2	0.0	81.2
Total	Lumens	32402.9	0.0	32402.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	649.8	2.0
10°-20°	1541.3	4.8
20°-30°	2098.2	6.5
30°-40°	2819.6	8.7
40°-50°	4210.1	13.0
50°-60°	6696.8	20.7
60°-70°	8236.7	25.4
70°-80°	5359.2	16.5
80°-90°	791.4	2.4
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°	32402.9	100.0
0°-180°	32402.9	100.0

Coefficient of Utilization

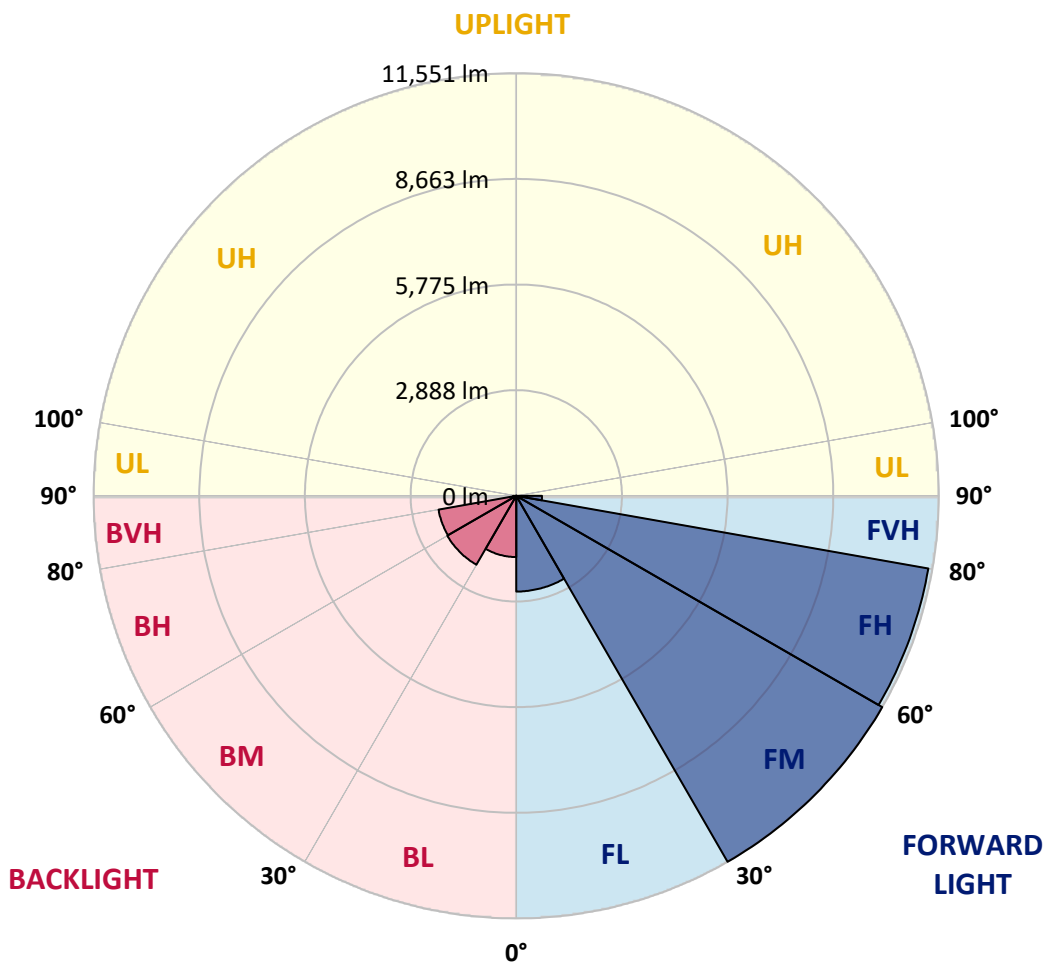


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2616.5	8.1			
FM (30°-60°)	11550.7	35.6			
FH (60°-80°)	11438.4	35.3			G4/12000
FVH (80°-90°)	703.6	2.2			G4/750
BL (0°-30°)	1672.8	5.2	B3/2500		
BM (30°-60°)	2175.7	6.7	B2/2500		
BH (60°-80°)	2157.5	6.7	B3/2500		G3/2500
BVH (80°-90°)	87.8	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-G4
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	7482.7	7482.7	7482.7	7482.7	7482.7	7482.7	7482.7	7482.7	7482.7	7482.7	7482.7
2.5°	7220.7	7249.5	7281.7	7317.6	7385.8	7423.5	7450.4	7480.9	7484.5	7500.7	7488.1
5°	6687.8	6721.9	6770.4	6838.6	6940.8	7100.5	7265.6	7400.2	7416.3	7491.7	7513.2
7.5°	6242.8	6262.5	6302.0	6411.4	6556.8	6734.4	6974.9	7247.7	7287.1	7466.6	7529.4
10°	5880.3	5900.1	5946.7	6059.7	6203.3	6425.8	6689.6	7048.5	7080.7	7389.4	7533.0
12.5°	5609.3	5627.3	5677.5	5788.8	5953.9	6162.1	6452.7	6833.2	6879.8	7287.1	7498.9
15°	5403.0	5437.1	5478.3	5569.9	5743.9	5944.9	6226.7	6635.8	6673.4	7179.5	7475.5
17.5°	5315.1	5331.2	5359.9	5444.3	5571.7	5769.1	6052.6	6481.4	6526.3	7104.1	7470.1
20°	5318.7	5334.8	5340.2	5386.9	5478.3	5648.8	5928.8	6359.4	6413.2	7037.7	7479.1
22.5°	5440.7	5442.5	5422.7	5406.6	5442.5	5584.2	5840.9	6267.9	6330.7	7009.0	7486.3
25°	5629.1	5661.4	5632.7	5557.3	5490.9	5559.1	5806.7	6217.6	6276.8	6967.8	7477.3
27.5°	5934.1	5939.5	5916.2	5813.9	5641.7	5591.4	5792.4	6180.0	6230.3	6937.2	7432.5
30°	6343.2	6327.1	6305.6	6192.5	5921.6	5715.2	5822.9	6145.9	6197.9	6892.4	7378.7
32.5°	6757.8	6808.0	6788.3	6655.5	6303.8	5955.7	5921.6	6142.3	6185.4	6858.3	7319.4
35°	7197.4	7220.7	7314.1	7245.9	6885.2	6345.0	6106.4	6197.9	6232.1	6860.1	7278.1
37.5°	7541.9	7604.7	7823.7	7882.9	7543.7	6860.1	6406.1	6355.8	6370.2	6948.0	7294.3
40°	7958.3	8065.9	8347.6	8589.9	8367.4	7529.4	6915.7	6648.3	6666.3	7159.8	7400.2
42.5°	8485.8	8561.2	8939.8	9268.1	9232.3	8414.0	7533.0	7127.4	7136.4	7581.4	7696.3
45°	9103.1	9210.7	9636.1	10129.5	10213.8	9415.3	8424.8	7852.4	7847.0	8236.4	8249.0
47.5°	9892.7	9959.1	10380.7	10919.0	11260.0	10673.2	9506.8	8893.2	8835.7	9191.0	9088.8
50°	10619.4	10723.4	11042.9	11631.4	12480.2	12146.4	10929.8	10242.6	10108.0	10439.9	10267.6
52.5°	10924.4	11033.9	11303.1	12033.4	13526.3	14052.1	12736.7	11852.1	11627.9	11882.7	11819.9
55°	10395.1	10536.8	10788.0	11676.3	13985.7	16250.2	15173.6	13712.9	13549.7	13440.2	13458.1
57.5°	8972.1	9106.7	9445.8	10425.6	13436.6	17845.5	18653.0	16104.9	15755.0	15250.8	15336.9
60°	6829.6	6913.9	7089.8	8175.4	11809.0	18260.0	22604.3	19128.5	18906.0	17054.1	17115.2
62.5°	4850.3	4945.4	5067.4	5609.3	8645.5	17091.9	25697.9	23350.8	22555.9	18922.1	18862.9
65°	3938.7	3874.1	4021.3	4274.3	5072.8	13246.4	26394.1	29211.4	28116.7	21382.3	20560.5
67.5°	3239.0	3170.8	3316.1	3766.5	3858.0	7689.1	23885.5	33015.5	32796.6	24057.8	22284.9
69°	2867.5	2831.6	2959.0	3472.2	3703.7	5460.4	20808.1	33544.9	33596.9	25635.1	22550.5
70°	2584.0	2598.3	2722.1	3323.3	3633.7	4502.2	17784.5	32814.5	33256.0	26422.8	22263.4
72.5°	1902.1	1932.6	2104.9	2752.6	3567.3	3820.3	10583.5	28662.3	29442.8	26469.5	20366.7
75°	1329.7	1315.3	1467.8	2072.5	3370.0	3786.2	6215.8	22166.5	23051.1	22878.9	17113.4
77.5°	870.3	893.6	1015.6	1464.2	2835.2	3757.5	4051.8	15726.3	16300.5	15301.0	10122.3
80°	613.7	611.9	680.1	999.5	2103.1	3610.3	3317.9	9912.4	9767.0	6013.1	3002.1
82.5°	351.7	376.9	455.8	703.4	1406.8	3177.9	3052.3	4740.8	4328.1	1713.7	1013.8
85°	195.6	204.6	271.0	425.2	821.8	2393.8	2664.7	2156.9	2034.9	716.0	436.1
87.5°	62.8	68.2	113.1	215.3	373.3	1130.5	1509.1	995.9	918.8	258.4	175.9
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°	7482.7	7482.7	7482.7	7482.7	7482.7	7482.7	7482.7	7482.7	7482.7	7482.7	7482.7
2.5°	7493.5	7515.0	7457.6	7402.0	7351.7	7281.7	7218.9	7166.9	7131.0	7125.6	7107.7
5°	7518.6	7520.4	7410.9	7263.8	7120.3	6962.4	6799.0	6682.4	6573.0	6512.0	6481.4
7.5°	7536.5	7520.4	7323.0	7084.3	6808.0	6520.9	6233.8	6004.1	5826.5	5756.5	5783.4
10°	7529.4	7479.1	7190.2	6808.0	6406.1	5977.2	5564.5	5241.5	4945.4	4792.9	4796.5
12.5°	7489.9	7407.3	6992.8	6497.6	5907.3	5333.0	4701.4	4265.3	3922.6	3719.8	3657.0
15°	7455.8	7312.3	6761.4	6075.9	5342.0	4521.9	3752.1	3213.8	2926.7	2767.0	2765.2
17.5°	7419.9	7220.7	6508.4	5629.1	4692.4	3637.3	2829.8	2418.8	2284.3	2300.5	2273.5
20°	7382.2	7113.1	6244.6	5132.0	3901.1	2713.2	2119.2	1952.3	1990.0	2063.6	2074.3
22.5°	7339.1	6998.2	5961.1	4584.8	3068.4	2042.1	1719.1	1693.9	1790.8	1905.7	1921.8
25°	7272.8	6854.7	5604.0	4012.3	2366.9	1645.5	1505.6	1523.5	1618.5	1715.5	1726.2
27.5°	7179.5	6677.0	5243.3	3298.2	1778.3	1412.2	1376.4	1399.6	1446.3	1505.6	1519.9
30°	7053.9	6476.0	4828.8	2680.8	1424.7	1295.6	1281.2	1293.8	1320.7	1345.8	1353.0
32.5°	6928.2	6282.2	4410.7	2052.8	1270.4	1218.4	1204.0	1204.0	1204.0	1207.6	1209.4
35°	6811.6	6099.3	3962.1	1598.8	1189.7	1157.4	1137.7	1116.2	1112.6	1100.0	1100.0
37.5°	6747.0	5932.3	3484.7	1338.6	1130.5	1107.2	1080.2	1044.4	1024.6	1026.4	1022.8
40°	6759.6	5822.9	3050.5	1191.5	1082.0	1056.9	1015.6	974.4	961.8	961.8	958.2
42.5°	6901.4	5787.0	2634.2	1114.4	1035.4	1006.7	954.6	917.0	909.8	908.0	911.6
45°	7228.0	5874.9	2261.0	1064.1	995.9	952.8	900.8	866.7	859.5	859.5	857.7
47.5°	7864.9	6160.3	1993.6	1031.8	967.2	911.6	857.7	823.6	811.1	807.5	807.5
50°	8855.5	6779.3	1794.4	1003.1	931.3	873.9	818.2	778.8	759.0	757.2	755.4
52.5°	10231.8	7744.7	1717.3	981.6	891.8	834.4	773.4	735.7	710.6	705.2	701.6
55°	11841.4	9092.4	1823.1	965.4	850.6	789.6	726.7	687.2	663.9	653.2	651.4
57.5°	13705.8	10710.9	2225.1	943.8	812.9	741.1	680.1	640.6	615.5	602.9	599.3
60°	15380.0	12374.3	2926.7	931.3	780.6	689.0	626.2	590.4	567.0	554.4	552.7
62.5°	17219.3	13960.6	3764.7	965.4	766.2	638.8	576.0	543.7	524.0	511.4	511.4
65°	19184.1	15548.7	4319.2	1080.2	787.8	599.3	522.2	495.2	477.3	468.3	466.5
67.5°	20508.4	16097.7	3558.3	1198.7	841.6	556.2	470.1	448.6	437.9	428.8	428.8
69°	20364.9	15403.3	2625.2	1229.2	857.7	534.7	441.5	425.2	410.9	407.3	403.7
70°	19910.9	14612.0	2200.0	1209.4	845.2	515.0	423.4	403.7	391.2	387.6	385.8
72.5°	17734.2	12672.2	1638.3	1051.5	719.6	446.8	375.1	357.1	346.3	340.9	340.9
75°	14733.9	10357.4	1279.4	836.2	563.4	376.9	321.2	306.9	297.9	294.3	292.5
77.5°	8257.9	5783.4	918.8	655.0	427.0	305.1	269.2	256.6	247.7	244.1	244.1
80°	2300.5	1652.7	540.1	432.5	290.7	231.5	213.5	204.6	192.0	183.1	188.4
82.5°	866.7	716.0	308.7	260.2	184.8	154.3	148.9	141.7	136.4	123.8	123.8
85°	421.7	348.1	197.4	138.2	102.3	80.7	77.1	73.6	70.0	61.0	62.8
87.5°	145.3	154.3	86.1	50.3	30.5	19.7	16.1	9.0	9.0	9.0	9.0
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)