

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: P647437

Luminaire Tested: **GALN-SA5D-835-U-SL2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P647437
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-SA5D-835-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3500K, 1200mA 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: 30278.6 lumens
Efficiency: N/A
Efficacy: 98.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

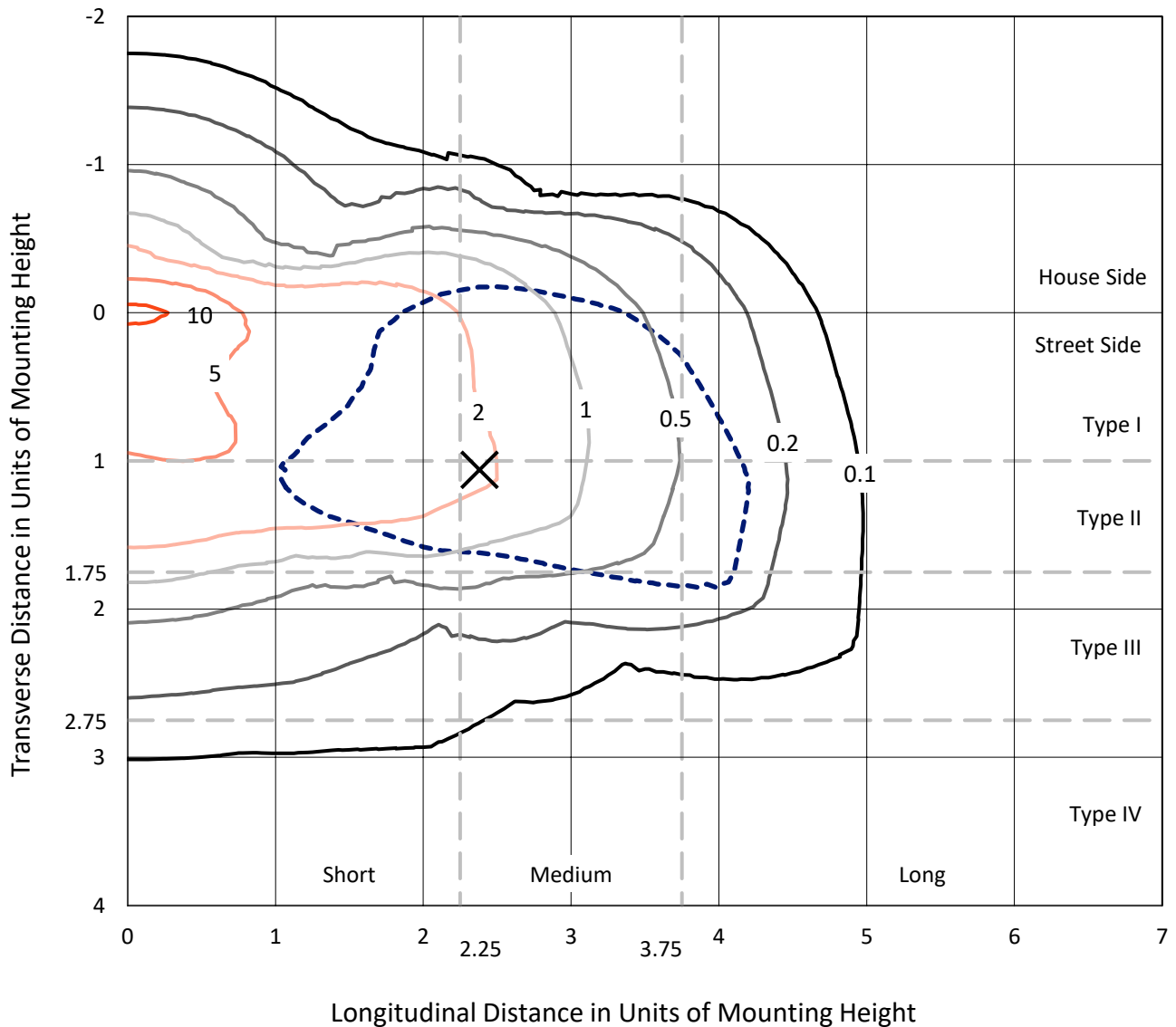
Input Watts (W): 309
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

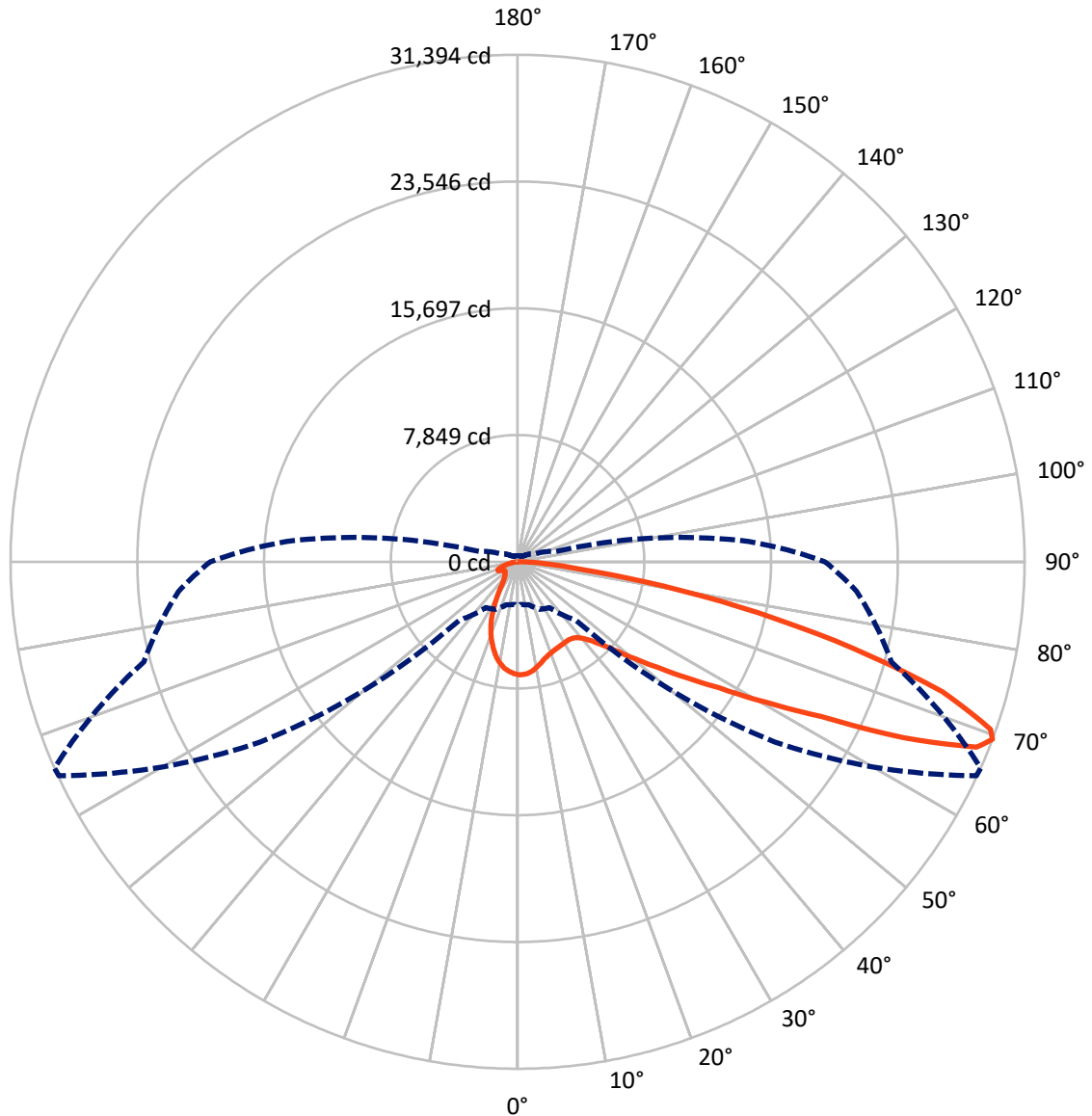
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.2 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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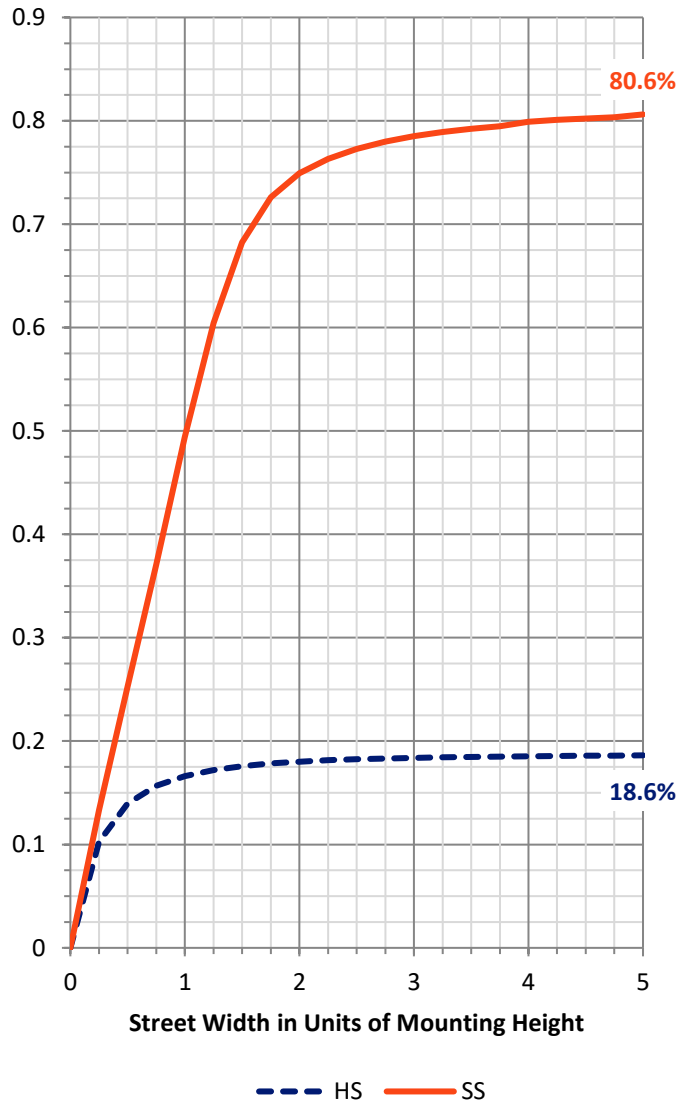
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5694.3	0.0	5694.3
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	24584.4	0.0	24584.4
	% Fixture	81.2	0.0	81.2
Total	Lumens	30278.6	0.0	30278.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	607.2	2.0
10°-20°	1440.2	4.8
20°-30°	1960.7	6.5
30°-40°	2634.7	8.7
40°-50°	3934.1	13.0
50°-60°	6257.8	20.7
60°-70°	7696.7	25.4
70°-80°	5007.8	16.5
80°-90°	739.5	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°	30278.6	100.0
0°-180°	30278.6	100.0

Coefficient of Utilization

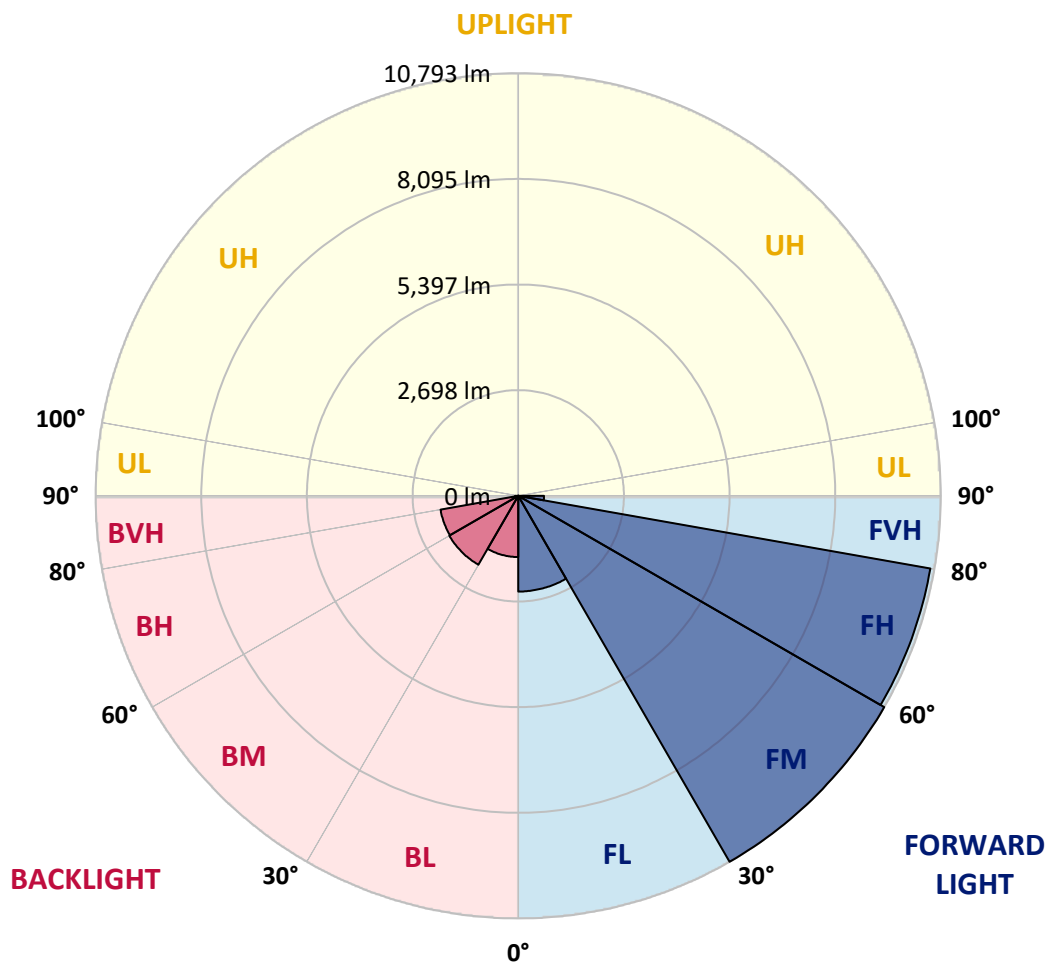


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2445.0	8.1			
FM (30°-60°)	10793.4	35.6			
FH (60°-80°)	10688.5	35.3			G4/12000
FVH (80°-90°)	657.5	2.2			G4/750
BL (0°-30°)	1563.1	5.2	B3/2500		
BM (30°-60°)	2033.1	6.7	B2/2500		
BH (60°-80°)	2016.0	6.7	B3/2500		G3/2500
BVH (80°-90°)	82.0	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°	6992.2	6992.2	6992.2	6992.2	6992.2	6992.2	6992.2	6992.2	6992.2	6992.2	6992.2
2.5°	6747.3	6774.2	6804.3	6837.9	6901.6	6936.8	6962.0	6990.5	6993.8	7008.9	6997.2
5°	6249.4	6281.2	6326.5	6390.2	6485.8	6635.0	6789.3	6915.1	6930.1	7000.6	7020.7
7.5°	5833.5	5852.0	5888.9	5991.1	6127.0	6293.0	6517.6	6772.5	6809.4	6977.1	7035.8
10°	5494.8	5513.3	5556.9	5662.5	5796.6	6004.5	6251.0	6586.4	6616.6	6905.0	7039.1
12.5°	5241.6	5258.4	5305.3	5409.3	5563.5	5758.0	6029.7	6385.2	6428.7	6809.4	7007.3
15°	5048.8	5080.7	5119.2	5204.8	5367.4	5555.2	5818.4	6200.7	6236.0	6708.8	6985.5
17.5°	4966.6	4981.7	5008.5	5087.4	5206.4	5390.9	5655.8	6056.5	6098.5	6638.4	6980.4
20°	4970.0	4985.0	4990.1	5033.7	5119.2	5278.5	5540.1	5942.5	5992.8	6576.3	6988.8
22.5°	5084.0	5085.7	5067.3	5052.2	5085.7	5218.1	5457.9	5857.0	5915.6	6549.5	6995.6
25°	5260.0	5290.3	5263.4	5193.0	5130.9	5194.7	5426.0	5810.0	5865.4	6511.0	6987.2
27.5°	5545.1	5550.1	5528.4	5432.8	5271.8	5224.9	5412.6	5774.9	5821.8	6482.5	6945.2
30°	5927.4	5912.4	5892.2	5786.6	5533.4	5340.5	5441.1	5743.0	5791.6	6440.5	6894.9
32.5°	6314.7	6361.7	6343.2	6219.2	5890.5	5565.3	5533.4	5739.6	5779.9	6408.6	6839.6
35°	6725.6	6747.3	6834.6	6770.8	6433.8	5929.1	5706.1	5791.6	5823.5	6410.3	6801.0
37.5°	7047.5	7106.2	7310.8	7366.1	7049.2	6410.3	5986.1	5939.1	5952.6	6492.5	6816.1
40°	7436.5	7537.2	7800.4	8026.8	7818.8	7035.8	6462.3	6212.5	6229.2	6690.3	6915.1
42.5°	7929.5	7999.9	8353.7	8660.6	8627.0	7862.4	7039.1	6660.2	6668.6	7084.4	7191.7
45°	8506.3	8606.9	9004.3	9465.5	9544.2	8798.1	7872.5	7337.6	7332.6	7696.4	7708.2
47.5°	9244.1	9306.1	9700.2	10203.2	10521.8	9973.5	8883.6	8310.1	8256.5	8588.5	8492.9
50°	9923.2	10020.4	10318.9	10868.9	11662.0	11350.1	10213.3	9571.1	9445.3	9755.5	9594.6
52.5°	10208.2	10310.5	10562.0	11244.5	12639.6	13130.8	11901.8	11075.1	10865.5	11103.6	11044.9
55°	9713.6	9846.1	10080.8	10910.8	13068.8	15185.0	14178.9	12814.0	12661.3	12559.1	12575.8
57.5°	8383.9	8509.6	8826.6	9742.1	12555.7	16675.6	17430.1	15049.1	14722.1	14251.0	14331.4
60°	6381.8	6460.6	6625.0	7639.4	11034.9	17062.9	21122.4	17874.5	17666.5	15936.1	15993.1
62.5°	4532.3	4621.2	4735.2	5241.6	8078.8	15971.3	24013.2	21819.9	21077.1	17681.6	17626.3
65°	3680.6	3620.2	3757.7	3994.1	4740.3	12378.0	24663.7	27296.3	26273.5	19980.5	19212.5
67.5°	3026.6	2962.9	3098.7	3519.6	3605.1	7185.0	22319.6	30851.1	30646.5	22480.6	20824.0
69°	2679.5	2646.0	2765.0	3244.6	3460.9	5102.4	19443.9	31345.8	31394.4	23954.5	21072.1
70°	2414.5	2428.0	2543.7	3105.4	3395.5	4207.1	16618.5	30663.3	31075.8	24690.6	20803.8
72.5°	1777.4	1805.9	1966.9	2572.2	3333.5	3569.9	9889.7	26783.2	27512.6	24734.2	19031.4
75°	1242.5	1229.1	1371.6	1936.7	3149.0	3538.0	5808.4	20713.2	21539.9	21379.0	15991.4
77.5°	813.2	835.1	949.1	1368.2	2649.3	3511.2	3786.2	14695.3	15231.9	14297.9	9458.7
80°	573.5	571.7	635.5	934.0	1965.2	3373.7	3100.4	9262.5	9126.7	5618.9	2805.3
82.5°	328.6	352.1	425.9	657.3	1314.6	2969.6	2852.2	4430.1	4044.4	1601.3	947.4
85°	182.8	191.1	253.2	397.4	768.0	2236.8	2490.0	2015.5	1901.4	669.1	407.5
87.5°	58.7	63.7	105.6	201.2	348.7	1056.3	1410.2	930.6	858.5	241.5	164.4
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°	6992.2	6992.2	6992.2	6992.2	6992.2	6992.2	6992.2	6992.2	6992.2	6992.2	6992.2
2.5°	7002.2	7022.3	6968.7	6916.7	6869.7	6804.3	6745.7	6697.1	6663.5	6658.5	6641.7
5°	7025.7	7027.3	6925.1	6787.6	6653.5	6505.9	6353.3	6244.3	6142.0	6085.0	6056.5
7.5°	7042.5	7027.3	6843.0	6620.0	6361.7	6093.4	5825.1	5610.5	5444.5	5379.1	5404.3
10°	7035.8	6988.8	6718.8	6361.7	5986.1	5585.4	5199.7	4897.9	4621.2	4478.7	4482.0
12.5°	6998.8	6921.7	6534.4	6071.6	5520.0	4983.4	4393.2	3985.7	3665.5	3476.0	3417.2
15°	6967.1	6832.8	6318.1	5677.6	4991.8	4225.5	3506.1	3003.1	2734.9	2585.6	2583.9
17.5°	6933.5	6747.3	6081.7	5260.0	4384.8	3398.8	2644.3	2260.3	2134.5	2149.6	2124.5
20°	6898.3	6646.7	5835.2	4795.6	3645.3	2535.3	1980.3	1824.3	1859.5	1928.3	1938.4
22.5°	6858.1	6539.5	5570.3	4284.2	2867.3	1908.2	1606.3	1582.9	1673.4	1780.8	1795.8
25°	6796.0	6405.3	5236.5	3749.3	2211.7	1537.6	1406.8	1423.6	1512.4	1603.0	1613.1
27.5°	6708.8	6239.3	4899.5	3081.9	1661.7	1319.6	1286.1	1307.9	1351.5	1406.8	1420.2
30°	6591.5	6051.5	4512.2	2505.1	1331.3	1210.6	1197.2	1209.0	1234.1	1257.6	1264.3
32.5°	6474.1	5870.4	4121.6	1918.3	1187.2	1138.6	1125.1	1125.1	1125.1	1128.5	1130.2
35°	6365.1	5699.4	3702.3	1494.0	1111.7	1081.6	1063.1	1043.0	1039.6	1027.8	1027.8
37.5°	6304.7	5543.4	3256.3	1250.8	1056.3	1034.6	1009.4	975.9	957.5	959.1	955.7
40°	6316.5	5441.1	2850.5	1113.3	1011.1	987.6	949.1	910.5	898.7	898.7	895.4
42.5°	6448.9	5407.6	2461.5	1041.3	967.5	940.7	892.1	856.8	850.1	848.5	851.8
45°	6754.1	5489.8	2112.8	994.3	930.6	890.3	841.7	809.9	803.2	803.2	801.5
47.5°	7349.3	5756.4	1862.9	964.2	903.8	851.8	801.5	769.6	757.9	754.6	754.6
50°	8274.9	6334.9	1676.8	937.3	870.2	816.6	764.6	727.7	709.2	707.6	706.0
52.5°	9561.0	7237.0	1604.7	917.2	833.3	779.7	722.7	687.5	664.0	659.0	655.6
55°	11065.0	8496.3	1703.6	902.1	794.8	737.8	679.1	642.2	620.4	610.3	608.7
57.5°	12807.2	10008.7	2079.2	882.0	759.6	692.5	635.5	598.6	575.1	563.4	560.1
60°	14371.7	11563.1	2734.9	870.2	729.4	643.9	585.2	551.6	529.9	518.1	516.5
62.5°	16090.4	13045.3	3517.9	902.1	716.0	597.0	538.2	508.1	489.6	477.9	477.9
65°	17926.5	14529.3	4036.0	1009.4	736.1	560.1	488.0	462.8	446.0	437.6	436.0
67.5°	19163.9	15042.4	3325.1	1120.1	786.4	519.8	439.3	419.2	409.1	400.7	400.7
69°	19029.8	14393.5	2453.1	1148.6	801.5	499.7	412.5	397.4	384.0	380.6	377.2
70°	18605.6	13654.0	2055.8	1130.2	789.7	481.2	395.7	377.2	365.5	362.2	360.5
72.5°	16571.6	11841.4	1530.9	982.6	672.4	417.5	350.5	333.7	323.6	318.6	318.6
75°	13768.0	9678.3	1195.6	781.4	526.5	352.1	300.1	286.7	278.4	275.0	273.3
77.5°	7716.5	5404.3	858.5	612.0	399.1	285.1	251.5	239.8	231.4	228.0	228.0
80°	2149.6	1544.3	504.7	404.1	271.6	216.3	199.5	191.1	179.4	171.0	176.1
82.5°	809.9	669.1	288.4	243.1	172.7	144.2	139.1	132.5	127.5	115.7	115.7
85°	394.0	325.3	184.5	129.1	95.6	75.5	72.1	68.7	65.4	57.0	58.7
87.5°	135.9	144.2	80.5	47.0	28.5	18.5	15.1	8.4	8.4	8.4	8.4
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)