

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: P647564

Luminaire Tested: **GALN-SA7D-835-U-T2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P647564
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-14)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7D-835-U-T2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35388.5 lumens
Efficiency: N/A
Efficacy: 81.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G3

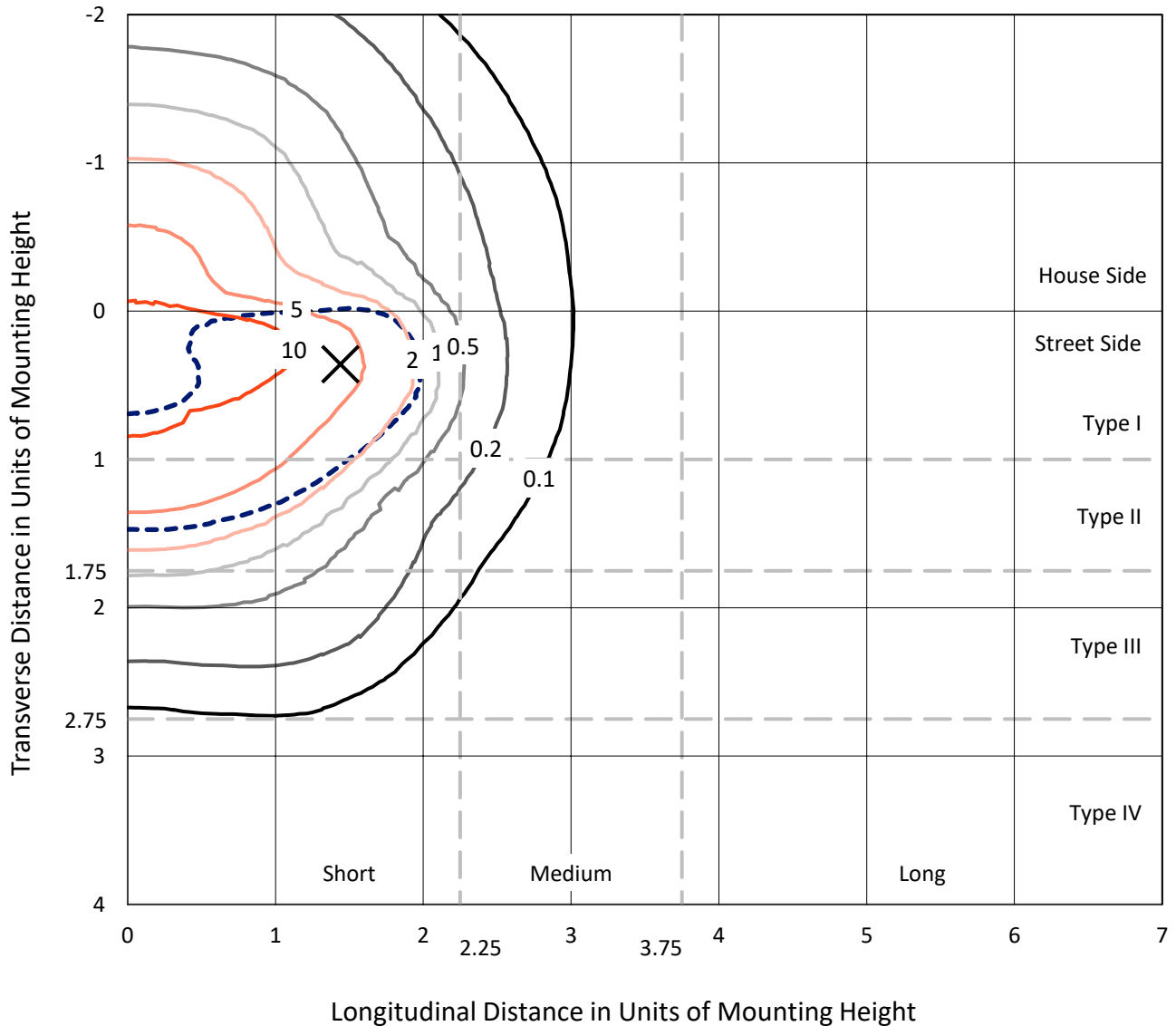
Input Watts (W): 433
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

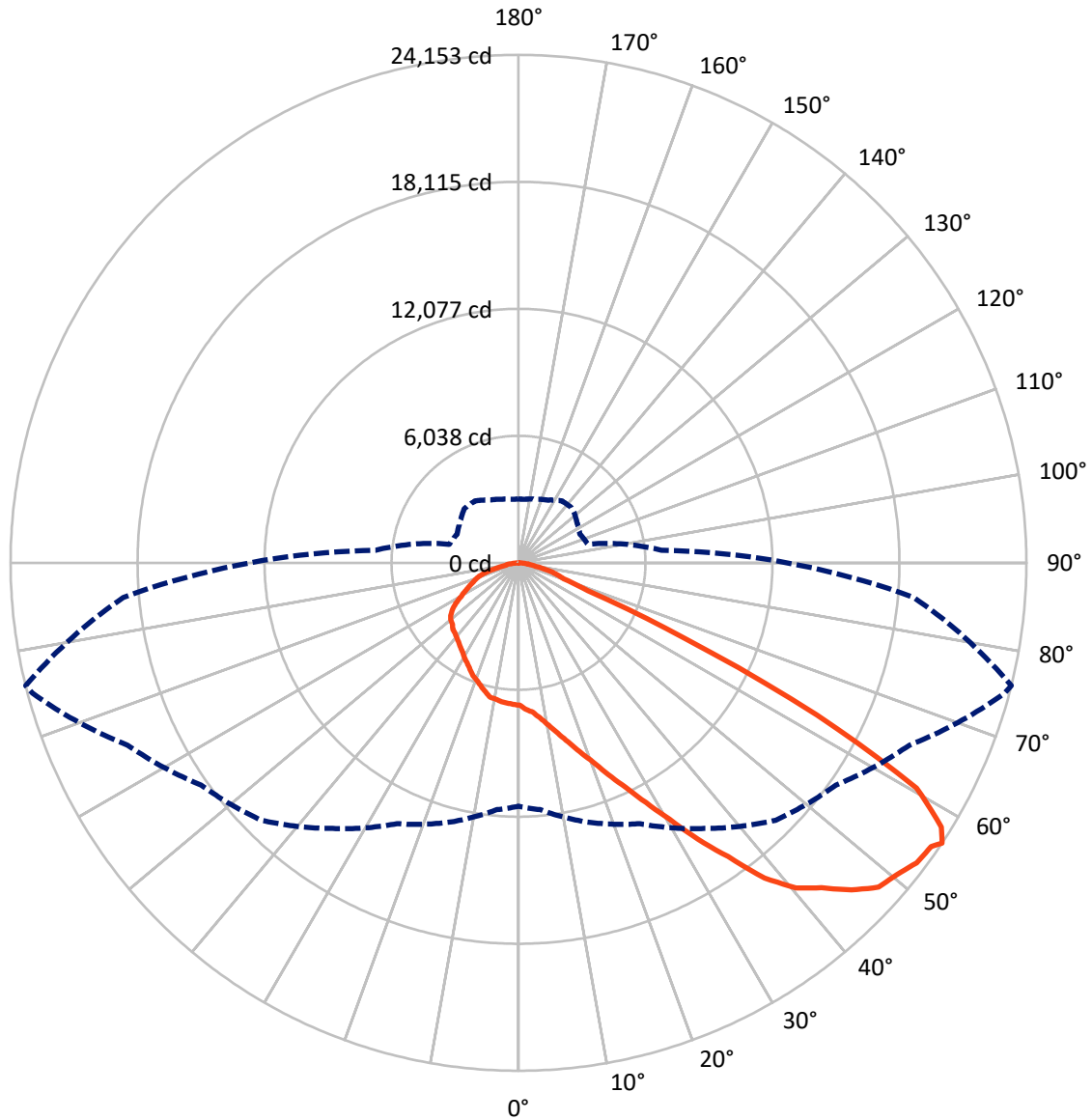
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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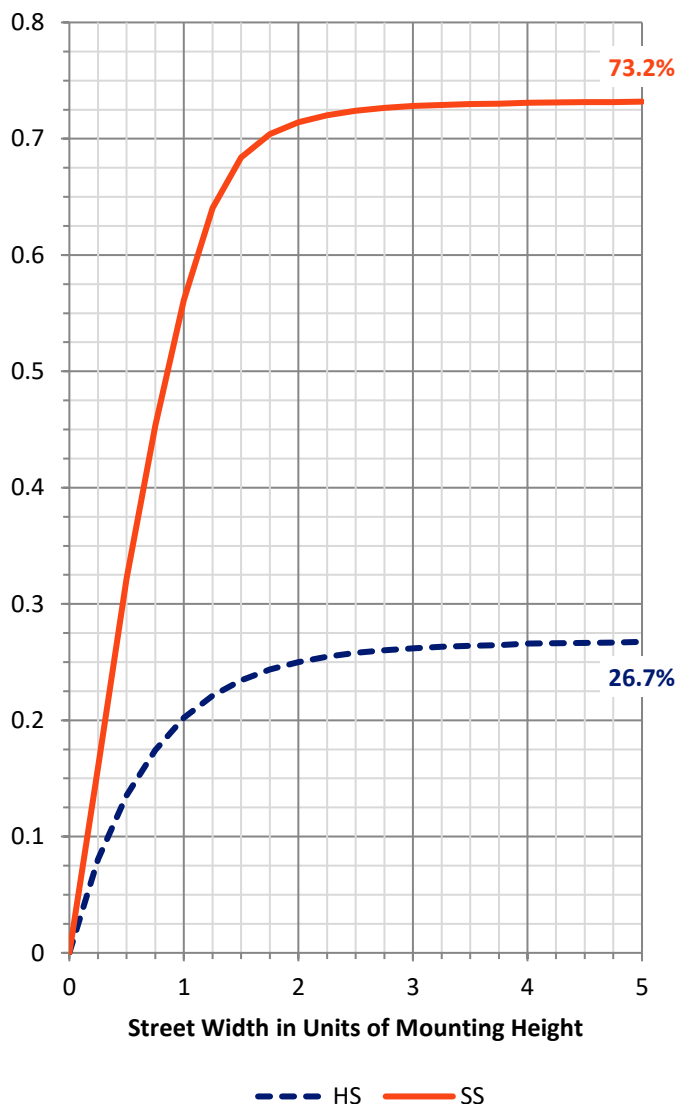
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9514.9	0.0	9514.9
	% Fixture	26.9	0.0	26.9
Street Side	Lumens	25873.6	0.0	25873.6
	% Fixture	73.1	0.0	73.1
Total	Lumens	35388.5	0.0	35388.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	671.5	1.9
10°-20°	2109.4	6.0
20°-30°	3689.0	10.4
30°-40°	5775.9	16.3
40°-50°	8402.3	23.7
50°-60°	9234.7	26.1
60°-70°	4122.0	11.6
70°-80°	1190.6	3.4
80°-90°	193.1	0.5
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°	35388.5	100.0
0°-180°	35388.5	100.0

Coefficient of Utilization

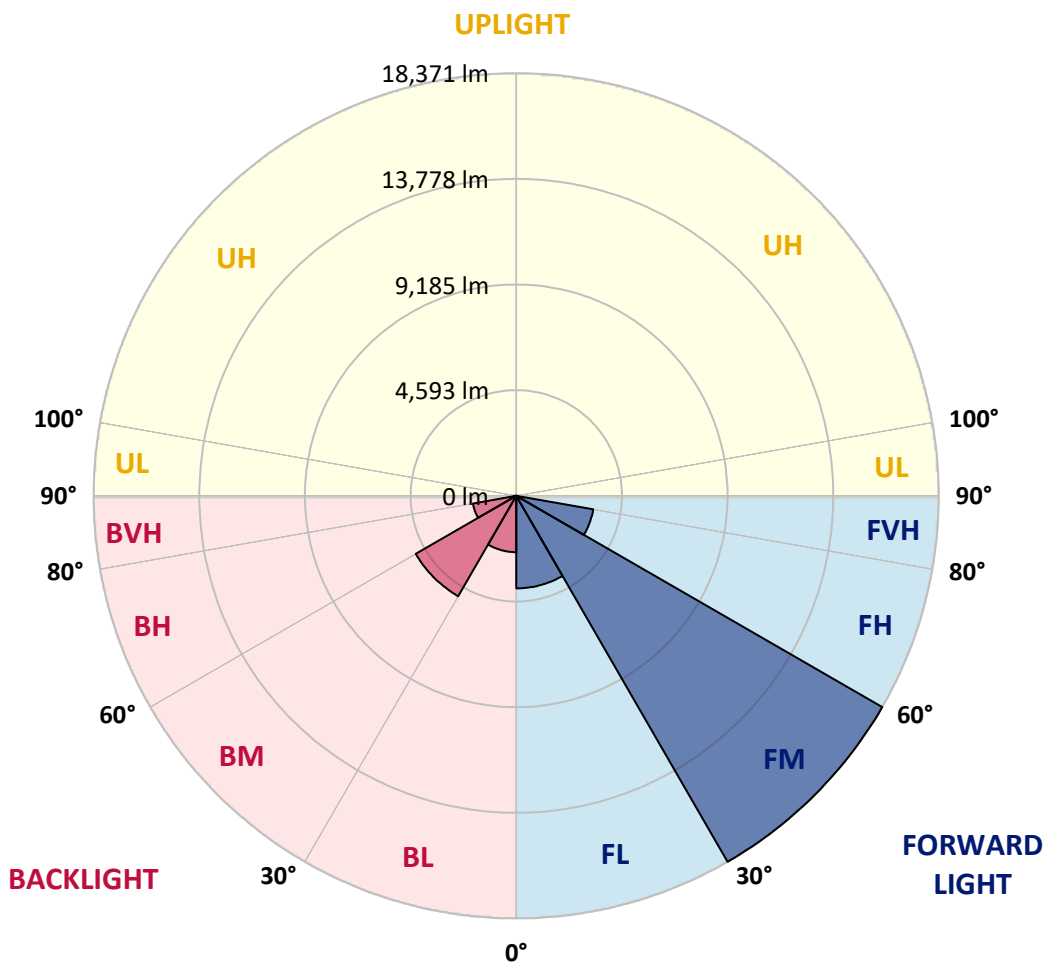


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4021.5	11.4			
FM (30°-60°)	18370.8	51.9			
FH (60°-80°)	3398.1	9.6			G2/5000
FVH (80°-90°)	83.1	0.2			G1/100
BL (0°-30°)	2448.4	6.9	B3/2500		
BM (30°-60°)	5042.1	14.2	B4/8500		
BH (60°-80°)	1914.4	5.4	B3/2500		G3/2500
BVH (80°-90°)	110.0	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G3
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	6771.1	6771.1	6771.1	6771.1	6771.1	6771.1	6771.1	6771.1	6771.1	6771.1	6771.1
2.5°	7459.2	7340.0	7330.8	7298.7	7317.1	7234.5	7147.3	7032.6	6913.3	6986.7	6812.4
5°	7982.2	7821.7	7885.9	7775.8	7789.5	7679.4	7500.5	7367.5	7220.7	7133.5	7009.7
7.5°	8165.8	8179.5	8225.3	8207.0	8115.2	8115.2	7996.0	7762.0	7505.1	7454.6	7248.2
10°	8413.4	8418.0	8367.6	8381.3	8509.8	8450.1	8344.7	8243.7	7913.4	7853.8	7486.8
12.5°	8500.6	8418.0	8500.6	8574.0	8725.4	8808.0	8785.0	8711.7	8358.4	8317.1	7780.4
15°	8514.3	8463.9	8532.7	8697.9	8830.9	9179.6	9353.9	9303.4	8835.5	8840.1	8110.7
17.5°	8450.1	8519.0	8546.5	8688.7	8996.0	9321.8	9826.4	9895.2	9509.8	9450.2	8528.1
20°	8537.3	8486.9	8523.6	8652.0	9060.2	9569.5	10230.1	10684.3	10142.9	10101.6	8959.3
22.5°	8872.2	8803.3	8794.2	8876.8	9170.4	9697.9	10656.7	11473.3	10913.6	10936.6	9496.1
25°	9133.7	9170.4	9138.2	9133.7	9317.2	9890.6	11221.0	12413.8	11959.5	11826.5	10129.2
27.5°	9583.3	9670.4	9606.2	9693.4	9652.0	10179.6	11624.7	13455.1	13088.1	12909.2	10702.6
30°	10207.2	10253.0	10193.4	10193.4	10069.5	10583.3	11991.7	14542.3	14390.9	14147.8	11377.0
32.5°	11028.3	11097.1	10977.8	10909.1	10890.7	11184.3	12652.3	15615.8	15872.7	15666.3	12271.5
35°	12115.5	12074.3	11932.1	11867.9	11620.1	12106.4	13634.0	16849.8	17524.2	17157.2	13354.1
37.5°	13074.3	13010.1	13000.9	12643.1	12702.8	13101.9	14468.9	17785.7	19125.2	19019.7	14496.5
40°	13968.9	14028.5	14124.9	13923.0	13831.3	14271.7	15441.5	18501.4	20368.4	20327.1	15377.3
42.5°	14927.7	14872.6	15042.4	14872.6	14735.0	15358.9	16496.6	18996.8	21460.2	21120.8	16299.3
45°	16317.7	16143.3	16203.0	16216.8	16115.9	16345.2	16932.4	19354.6	22226.4	22189.7	16973.7
47.5°	17478.3	17482.9	17382.0	17304.0	16996.7	17226.0	17418.7	19579.4	23107.2	23047.5	17235.2
50°	17909.6	17849.9	18143.5	18313.3	18331.6	17863.7	17799.5	19703.3	23570.5	23309.0	17496.7
52.5°	16359.0	16414.0	16877.3	17886.6	18469.2	18519.7	18244.4	19960.2	23758.6	23703.5	17707.7
55°	13166.1	13432.1	14193.7	15358.9	16739.8	18258.2	18726.1	20226.2	23859.5	23813.6	18643.5
56°	11574.2	11780.6	12771.6	13684.5	15418.5	17308.6	18423.4	20510.7	23937.5	24153.1	18863.7
57.5°	9317.2	9555.7	10266.8	11303.5	13349.6	15501.1	17588.5	20162.0	23634.7	23717.3	19024.3
60°	5826.1	5849.0	6702.3	7385.9	8826.3	10927.4	13423.0	17542.6	21873.1	21753.9	17088.3
62.5°	3821.4	3826.0	4601.2	5160.9	5816.9	6298.6	7899.7	11633.9	16138.8	15927.8	12166.0
65°	2683.7	2743.3	3344.3	4092.0	4358.1	4105.8	4055.3	6133.5	9014.4	8711.7	6537.2
67.5°	1963.5	1968.1	2500.2	3303.0	3688.3	3124.1	2536.8	2995.6	3569.1	3559.9	3027.7
70°	1298.3	1353.3	1761.6	2468.1	2908.5	2509.4	2073.5	2142.4	2270.8	2270.8	2252.5
72.5°	756.9	807.4	1078.0	1564.4	1633.2	1568.9	1642.3	1835.0	1917.6	1912.9	1890.0
75°	431.2	454.1	513.8	651.5	812.0	958.8	1206.5	1390.0	1472.6	1523.0	1463.4
77.5°	252.3	266.1	302.8	371.6	422.0	518.4	656.0	784.5	894.6	880.8	890.0
80°	133.0	133.0	169.8	220.2	293.6	367.0	435.8	509.2	568.8	582.6	596.4
82.5°	78.0	82.6	110.1	160.6	211.0	261.5	334.9	385.3	440.4	445.0	454.1
85°	41.3	45.9	68.8	105.5	142.2	160.6	165.1	156.0	169.8	160.6	183.5
87.5°	13.8	13.8	22.9	18.3	18.3	22.9	27.6	27.6	36.7	36.7	36.7
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°	6771.1	6771.1	6771.1	6771.1	6771.1	6771.1	6771.1	6771.1	6771.1	6771.1	6771.1
2.5°	6807.8	6807.8	6729.8	6583.1	6560.1	6500.5	6445.4	6440.8	6399.5	6362.8	6344.5
5°	6936.3	6794.1	6679.4	6546.3	6390.4	6316.9	6234.4	6142.6	6105.9	6142.6	6138.1
7.5°	7083.1	6963.8	6619.7	6372.1	6193.1	6119.7	6027.9	5931.6	5940.8	5940.8	5876.6
10°	7225.3	7064.7	6514.2	6197.7	5936.2	5881.2	5830.7	5867.4	5913.3	5922.5	5881.2
12.5°	7463.9	7101.4	6463.7	6023.4	5858.2	5738.9	5771.0	5872.0	5968.3	5940.8	5972.9
15°	7642.8	7133.5	6234.4	5844.5	5638.0	5693.0	5807.7	5876.6	6037.2	6018.8	6050.9
17.5°	7817.1	7151.9	6009.6	5605.9	5518.7	5670.1	5757.3	5954.6	6005.0	6115.2	6156.4
20°	8174.9	7188.6	5780.3	5459.1	5431.6	5605.9	5757.3	5849.0	5959.2	6055.5	6055.5
22.5°	8358.4	7170.2	5628.8	5266.5	5353.6	5463.7	5601.3	5757.3	5757.3	5849.0	5853.6
25°	8587.8	7096.9	5390.3	5174.7	5238.9	5344.4	5500.4	5445.4	5505.0	5505.0	5578.4
27.5°	8849.2	6940.9	5183.9	5009.6	5138.0	5252.7	5275.6	5238.9	5170.1	5160.9	5133.4
30°	9060.2	6748.2	5032.5	4954.5	5060.0	5124.2	5050.8	4972.8	4853.6	4844.4	4780.1
32.5°	9349.3	6509.6	4844.4	4816.9	4936.1	4940.7	4917.8	4798.5	4624.2	4550.8	4477.4
35°	9835.6	6372.1	4702.1	4743.5	4780.1	4766.4	4725.1	4596.7	4422.3	4390.2	4362.7
37.5°	10193.4	6271.1	4555.3	4605.8	4637.9	4656.3	4532.5	4390.2	4394.8	4330.6	4312.2
40°	10597.1	6206.8	4436.1	4459.0	4463.6	4523.2	4371.9	4303.1	4335.2	4293.9	4321.4
42.5°	11115.5	6225.2	4312.2	4293.9	4381.0	4358.1	4284.7	4193.0	4211.3	4087.4	4105.8
45°	11390.7	6349.1	4238.8	4156.2	4252.6	4248.0	4151.7	4064.5	3954.4	3715.9	3725.0
47.5°	11574.2	6381.2	4064.5	4009.4	4110.4	4170.0	4059.9	3858.1	3702.1	3532.3	3491.1
50°	11762.3	6440.8	3981.9	3867.2	3908.5	4050.8	3913.1	3720.4	3569.1	3417.6	3440.6
52.5°	11927.4	6555.5	3821.4	3651.7	3725.0	3881.0	3807.7	3573.7	3408.5	3284.6	3248.0
55°	12661.4	6812.4	3550.7	3330.5	3504.9	3702.1	3660.8	3376.4	3197.5	3133.3	3124.1
56°	12776.1	6821.6	3408.5	3220.4	3381.0	3642.4	3592.0	3289.2	3128.6	3027.7	3032.3
57.5°	12794.5	6711.5	3206.6	3119.5	3257.1	3555.3	3491.1	3220.4	3000.2	2908.5	2881.0
60°	11257.7	5238.9	2954.3	2899.3	3059.9	3289.2	3266.3	3032.3	2784.6	2679.1	2729.5
62.5°	7674.9	3839.8	2757.1	2747.9	2830.5	3055.3	2995.6	2784.6	2578.2	2509.4	2477.3
65°	4468.2	2913.1	2564.4	2527.7	2596.5	2715.8	2757.1	2536.8	2321.3	2275.4	2261.6
67.5°	2637.8	2408.4	2316.7	2257.1	2234.1	2307.5	2339.6	2211.2	1995.6	1931.3	1986.4
70°	2206.6	2142.4	2146.9	2046.1	1990.9	1940.5	1912.9	1798.3	1619.4	1536.8	1513.9
72.5°	1903.8	1876.3	1857.9	1766.2	1715.7	1601.0	1481.7	1367.0	1234.0	1165.2	1169.8
75°	1454.3	1445.0	1454.3	1408.4	1321.2	1229.5	1119.4	972.6	871.6	784.5	802.8
77.5°	867.0	894.6	908.4	890.0	853.2	770.7	701.9	605.6	509.2	440.4	431.2
80°	596.4	619.3	642.2	619.3	582.6	523.0	449.6	376.2	307.3	270.7	261.5
82.5°	454.1	477.1	490.9	467.9	422.0	357.8	307.3	256.9	201.9	165.1	156.0
85°	165.1	188.1	183.5	220.2	238.6	229.3	197.2	151.4	114.7	82.6	78.0
87.5°	45.9	41.3	45.9	45.9	45.9	41.3	36.7	36.7	36.7	22.9	18.3
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)