

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: P942472

Luminaire Tested: **GALN-SB6C-730-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P942472
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-9)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB6C-730-U-SL4
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 45018 lumens
Efficiency: N/A
Efficacy: 149.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B4 - U0 - G5

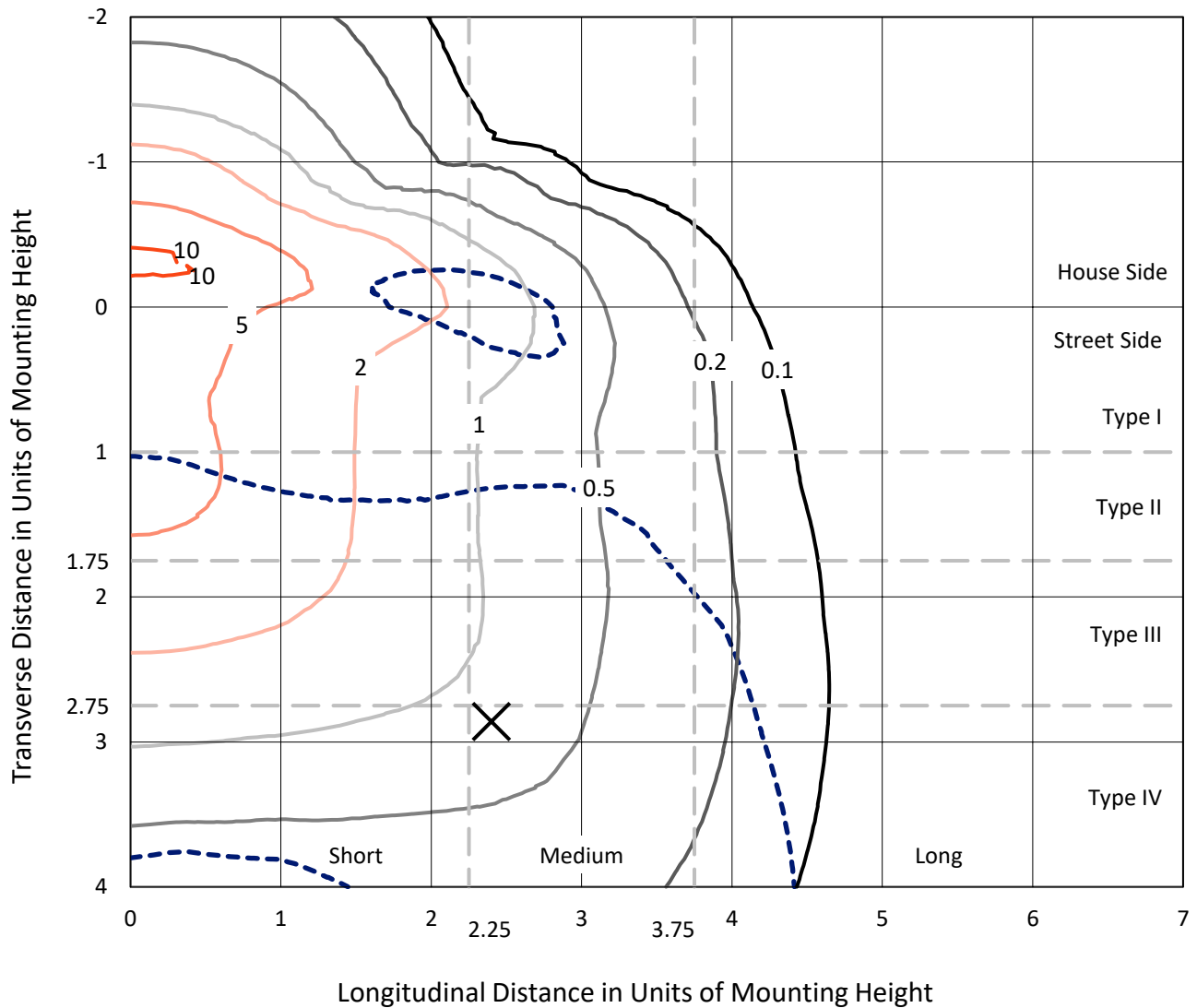
Input Watts (W): 300.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

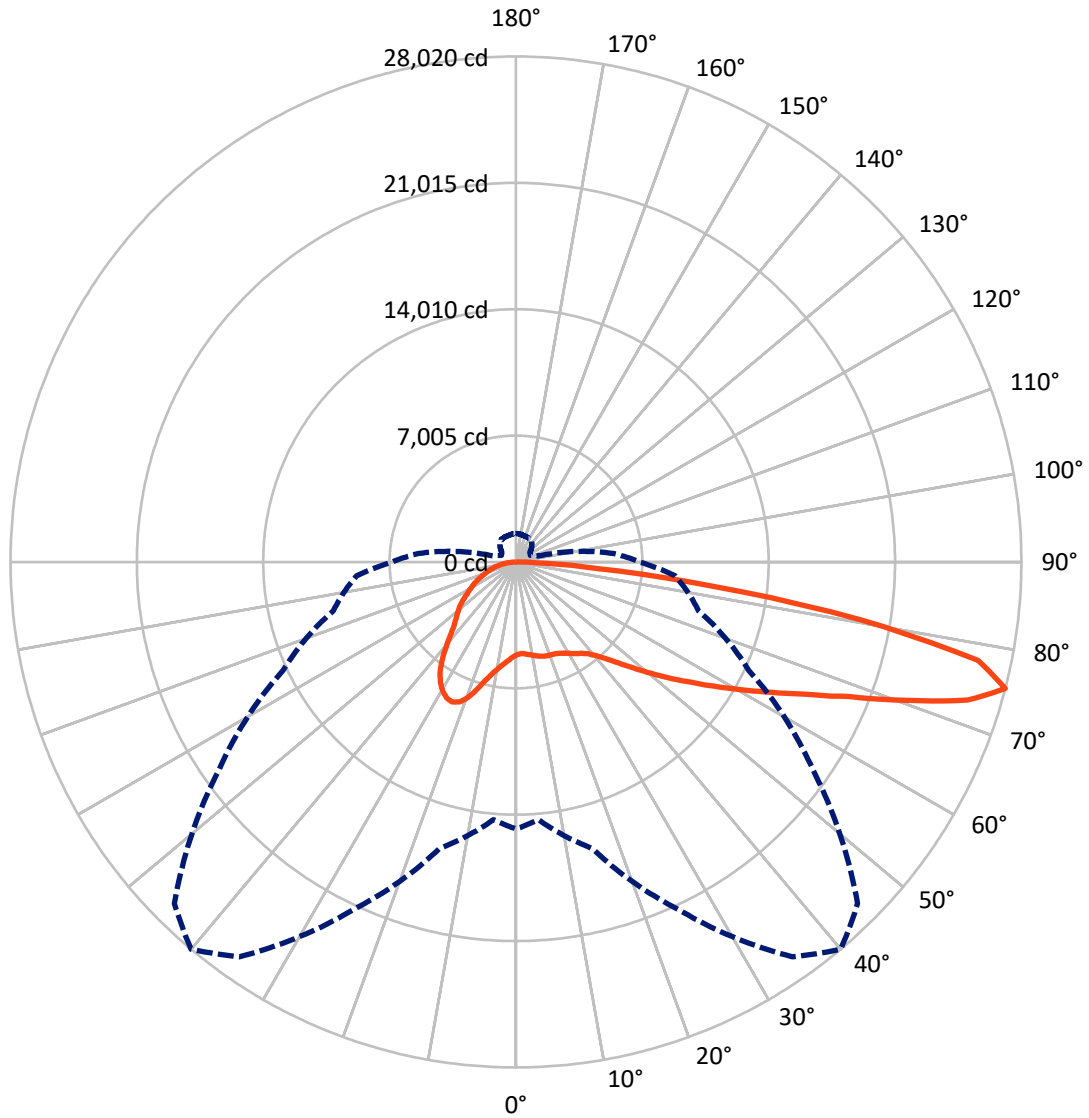
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.6 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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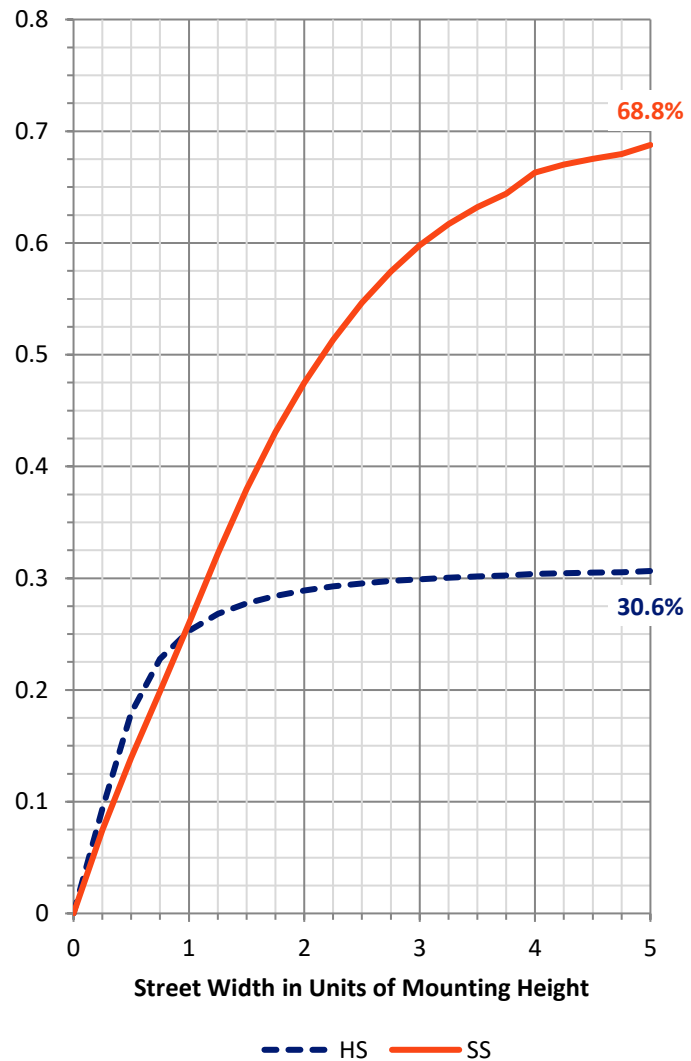
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13948.1	0.0	13948.1
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	31069.9	0.0	31069.9
	% Fixture	69.0	0.0	69.0
Total	Lumens	45018.0	0.0	45018.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	513.9	1.1
10°-20°	1725.2	3.8
20°-30°	3150.2	7.0
30°-40°	4467.8	9.9
40°-50°	6032.9	13.4
50°-60°	8115.8	18.0
60°-70°	10300.8	22.9
70°-80°	9348.7	20.8
80°-90°	1362.7	3.0
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°	45018.0	100.0
0°-180°	45018.0	100.0



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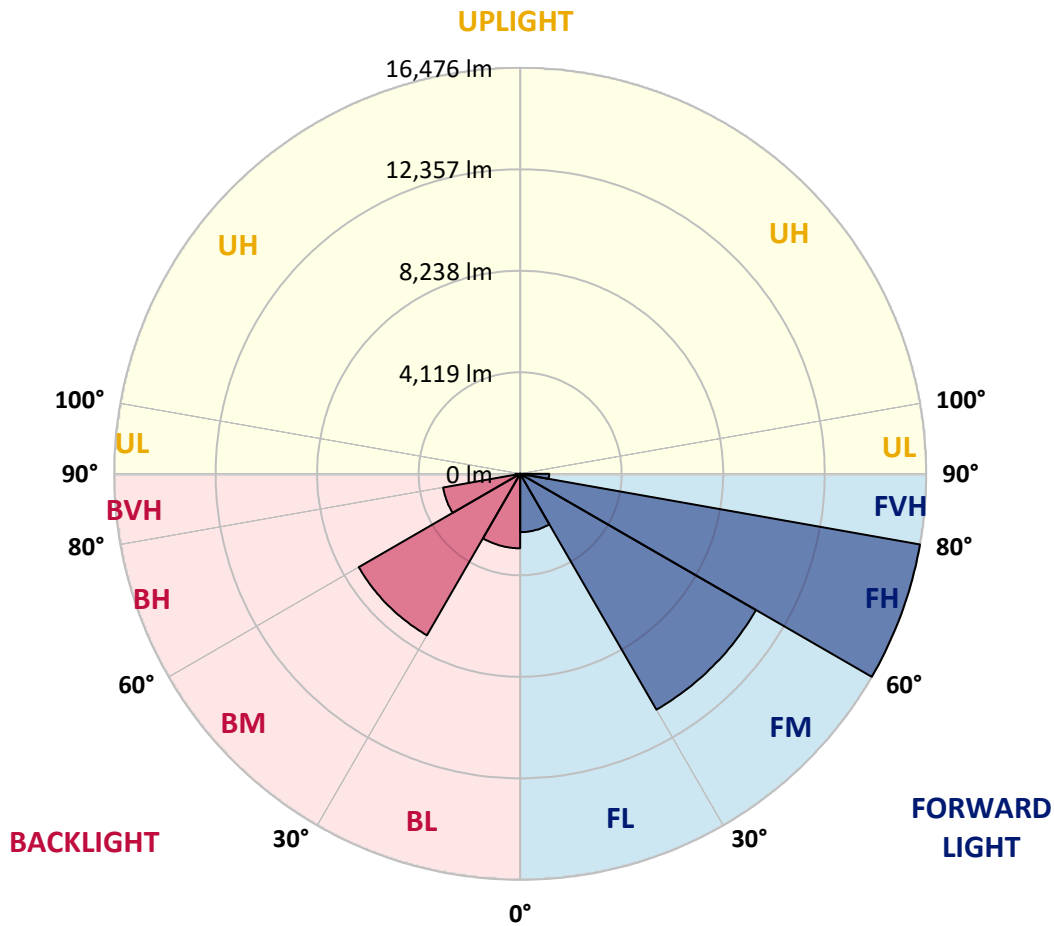
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2368.0	5.3			
FM (30°-60°)	11050.9	24.5			
FH (60°-80°)	16475.9	36.6			G5
FVH (80°-90°)	1175.1	2.6			G5
BL (0°-30°)	3021.3	6.7	B4/5000		
BM (30°-60°)	7565.6	16.8	B4/8500		
BH (60°-80°)	3173.6	7.0	B4/5000		G4/5000
BVH (80°-90°)	187.6	0.4			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	5147.9	5147.9	5147.9	5147.9	5147.9	5147.9	5147.9	5147.9	5147.9	5147.9	5147.9
2.5°	5069.1	5097.7	5090.6	5081.0	5081.0	5083.4	5081.0	5097.7	5114.4	5131.2	5157.4
5°	5121.6	5150.3	5135.9	5124.0	5114.4	5112.1	5104.9	5102.5	5112.1	5133.5	5169.4
7.5°	5224.3	5252.9	5231.4	5209.9	5190.8	5181.3	5171.7	5157.4	5150.3	5162.2	5212.3
10°	5338.9	5367.5	5341.3	5303.1	5272.0	5260.1	5250.5	5236.2	5226.7	5233.8	5288.7
12.5°	5453.5	5482.1	5446.3	5393.8	5353.2	5346.0	5334.1	5329.3	5326.9	5324.6	5379.5
15°	5560.9	5584.8	5539.5	5477.4	5434.4	5422.5	5410.5	5417.7	5429.6	5443.9	5506.0
17.5°	5644.5	5668.4	5601.5	5520.3	5479.8	5475.0	5467.8	5491.7	5525.1	5560.9	5637.3
20°	5720.9	5744.8	5658.8	5549.0	5501.2	5501.2	5503.6	5553.8	5601.5	5654.1	5759.1
22.5°	5828.4	5847.5	5742.4	5592.0	5522.7	5527.5	5546.6	5596.8	5656.4	5728.1	5873.7
25°	5988.3	6002.7	5873.7	5673.2	5594.4	5608.7	5625.4	5649.3	5706.6	5790.2	5985.9
27.5°	6246.2	6258.1	6088.6	5816.4	5697.0	5720.9	5744.8	5728.1	5754.3	5826.0	6076.7
30°	6609.1	6616.3	6401.4	6040.9	5871.3	5883.3	5888.1	5818.8	5768.7	5826.0	6141.1
32.5°	7038.9	7036.5	6781.1	6313.1	6069.5	6057.6	6017.0	5880.9	5763.9	5814.0	6198.5
35°	7705.1	7678.8	7349.3	6695.1	6294.0	6219.9	6124.4	5950.1	5787.8	5802.1	6248.6
37.5°	8808.2	8727.0	8271.0	7320.7	6628.2	6439.6	6298.7	6062.4	5840.3	5797.3	6308.3
40°	10052.2	9949.5	9448.1	8177.9	7129.7	6826.4	6599.6	6222.3	5926.3	5818.8	6396.6
42.5°	11527.8	11382.1	10842.5	9187.8	7764.8	7325.4	6984.0	6425.3	6052.8	5888.1	6516.0
45°	13340.0	13146.6	12382.6	10326.8	8564.7	7979.7	7523.6	6733.3	6246.2	6021.8	6695.1
47.5°	15171.4	15219.2	14132.8	11630.5	9524.5	8786.7	8199.3	7196.5	6528.0	6236.7	6984.0
50°	17117.4	17150.8	15873.4	13075.0	10613.3	9698.8	8958.6	7714.6	6919.5	6542.3	7416.2
52.5°	18636.0	18640.7	17454.0	14586.4	11747.5	10701.6	9777.6	8306.8	7373.2	6948.2	7991.6
55°	19586.3	19574.3	18561.9	16016.7	13051.1	11754.6	10684.9	8980.1	7927.1	7425.7	8715.1
57.5°	20276.3	20240.5	19326.0	17246.3	14440.8	12998.6	11711.6	9744.2	8581.4	7994.0	9667.8
60°	20538.9	20517.5	19844.1	18308.8	15902.0	14373.9	12895.9	10599.0	9323.9	8664.9	10892.7
62.5°	20639.2	20679.8	20352.7	19337.9	17466.0	15897.3	14197.2	11620.9	10159.6	9424.2	12184.4
65°	20992.6	21066.6	20999.8	20684.6	19232.9	17680.9	15923.5	12836.2	11071.7	10238.4	13533.4
67.5°	21692.2	21766.2	21794.9	22296.3	21391.4	19903.8	18077.2	14350.0	12139.0	11083.7	14548.2
70°	21675.5	21654.0	22160.2	23578.5	24094.2	22981.6	20980.7	16212.4	13411.7	11785.7	14677.2
72.5°	19729.5	19557.6	20753.8	23564.2	26343.4	26195.4	24526.4	18614.5	14510.0	11871.6	12736.0
75°	14801.3	14342.9	16456.0	21236.2	26718.3	28019.6	26780.4	20104.4	14249.8	10489.1	8863.1
77.5°	6329.8	5869.0	8359.3	15720.6	23912.8	26193.0	24712.6	17540.0	11375.0	6936.3	4352.8
80°	1657.1	1654.7	2526.2	7127.3	16262.6	19342.7	16969.3	11327.2	6499.3	2478.4	1201.0
82.5°	685.3	668.6	928.8	2772.1	7946.2	10854.5	8858.3	5052.4	2347.1	670.9	398.7
85°	255.5	253.1	451.3	957.5	2803.2	4476.9	3240.1	1291.7	585.0	327.1	179.1
87.5°	71.6	69.2	97.9	331.9	682.9	1036.3	553.9	212.5	164.8	128.9	52.5
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°	5147.9	5147.9	5147.9	5147.9	5147.9	5147.9	5147.9	5147.9	5147.9	5147.9	5147.9
2.5°	5164.6	5176.5	5198.0	5214.7	5236.2	5260.1	5293.5	5315.0	5336.5	5350.8	5341.3
5°	5186.1	5212.3	5267.3	5322.2	5386.6	5446.3	5515.6	5565.7	5606.3	5618.2	5623.0
7.5°	5233.8	5276.8	5369.9	5463.0	5565.7	5663.6	5763.9	5849.9	5919.1	5945.4	5947.7
10°	5317.4	5374.7	5506.0	5637.3	5773.4	5923.9	6052.8	6177.0	6274.9	6315.5	6317.8
12.5°	5422.5	5494.1	5666.0	5847.5	6036.1	6243.8	6411.0	6563.8	6685.5	6740.5	6740.5
15°	5558.6	5651.7	5871.3	6114.9	6391.9	6680.8	6893.3	7062.8	7198.9	7265.8	7261.0
17.5°	5706.6	5830.7	6107.7	6475.4	6871.8	7251.4	7499.7	7623.9	7764.8	7829.2	7826.9
20°	5849.9	6002.7	6399.0	6933.9	7461.5	7865.1	8065.6	8099.1	8108.6	8115.8	8134.9
22.5°	5997.9	6203.2	6764.3	7511.7	8077.6	8356.9	8385.6	8242.3	8041.8	7948.6	7974.9
25°	6160.3	6432.4	7241.9	8149.2	8607.6	8641.1	8421.4	8072.8	7693.2	7518.8	7545.1
27.5°	6317.8	6697.5	7814.9	8758.1	8989.7	8696.0	8223.2	7729.0	7270.5	7086.7	7108.2
30°	6475.4	7000.7	8447.7	9290.5	9164.0	8559.9	7910.4	7358.9	6898.0	6704.6	6726.1
32.5°	6635.4	7354.1	9175.9	9674.9	9132.9	8271.0	7521.2	6943.4	6537.5	6334.6	6360.8
35°	6816.9	7788.7	9866.0	9885.1	8925.2	7846.0	7007.9	6446.8	6093.4	5931.0	5966.8
37.5°	7053.2	8340.2	10474.8	9937.6	8562.3	7222.8	6370.4	5859.4	5568.1	5494.1	5546.6
40°	7346.9	9004.0	10940.4	9854.0	8025.0	6465.9	5673.2	5264.9	5100.1	5116.8	5174.1
42.5°	7729.0	9746.6	11267.5	9639.1	7277.7	5685.1	5061.9	4880.4	4959.2	5026.1	5088.2
45°	8225.6	10517.8	11470.5	9273.8	6432.4	5023.7	4701.4	4744.3	4804.0	4811.2	4859.0
47.5°	8860.7	11298.6	11604.2	8722.2	5570.5	4558.1	4472.2	4481.7	4469.8	4419.6	4457.8
50°	9653.4	12057.9	11723.6	7991.6	4837.5	4266.8	4152.2	4118.8	3954.0	3791.7	3813.1
52.5°	10556.0	12755.1	11773.7	7084.3	4266.8	4023.3	3837.0	3626.9	3318.9	3268.8	3285.5
55°	11558.8	13399.7	11644.8	5969.2	3786.9	3710.5	3428.7	3175.6	3142.2	3099.2	3106.4
57.5°	12757.4	14094.6	11382.1	4725.2	3295.0	3345.2	3070.6	3099.2	3039.5	2972.7	2960.7
60°	14068.3	14813.3	10921.3	3591.1	2786.4	2889.1	2977.5	2975.1	2958.4	2903.4	2884.3
62.5°	15247.8	15286.0	10014.0	2750.6	2339.9	2535.7	2776.9	2774.5	2760.2	2729.1	2717.2
65°	15949.8	15214.4	8500.2	2165.6	1972.2	2244.4	2504.7	2523.8	2526.2	2523.8	2523.8
67.5°	15825.6	14376.3	6422.9	1723.9	1669.0	1948.4	2234.9	2261.1	2280.2	2285.0	2289.8
70°	14421.7	12535.4	4188.0	1375.3	1399.2	1688.1	1979.4	2005.7	2022.4	2041.5	2051.0
72.5°	11241.3	9216.5	2397.2	1112.7	1162.8	1463.7	1726.3	1757.3	1766.9	1802.7	1817.0
75°	6850.3	5420.1	1294.1	876.3	955.1	1251.2	1475.6	1511.4	1528.1	1571.1	1575.9
77.5°	3256.8	2347.1	737.8	682.9	768.8	1021.9	1246.4	1287.0	1241.6	1265.5	1246.4
80°	1100.7	871.5	465.6	520.5	587.4	797.5	998.1	1038.6	943.1	938.4	928.8
82.5°	384.4	353.4	296.1	346.2	379.6	570.7	754.5	807.0	702.0	699.6	666.2
85°	150.4	143.3	164.8	188.6	226.8	351.0	496.6	522.9	432.2	348.6	343.8
87.5°	31.0	33.4	40.6	43.0	69.2	121.8	179.1	219.7	174.3	148.0	136.1
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)