

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: P944508

Luminaire Tested: **GALN-SB9C-727-U-T4FT-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944508
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-25)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB9C-727-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 47905 lumens
Efficiency: N/A
Efficacy: 106.5 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): 449.8
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



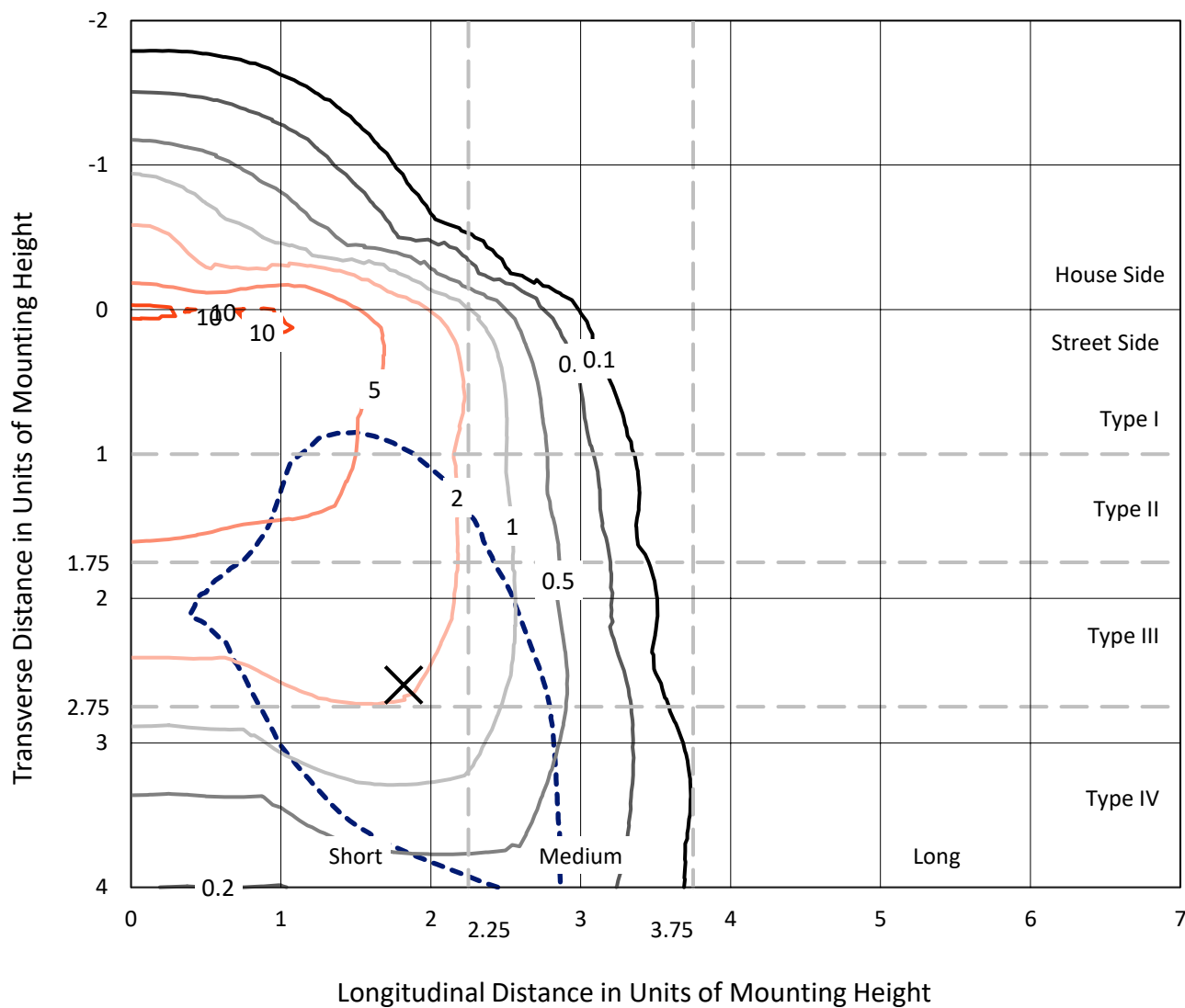
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

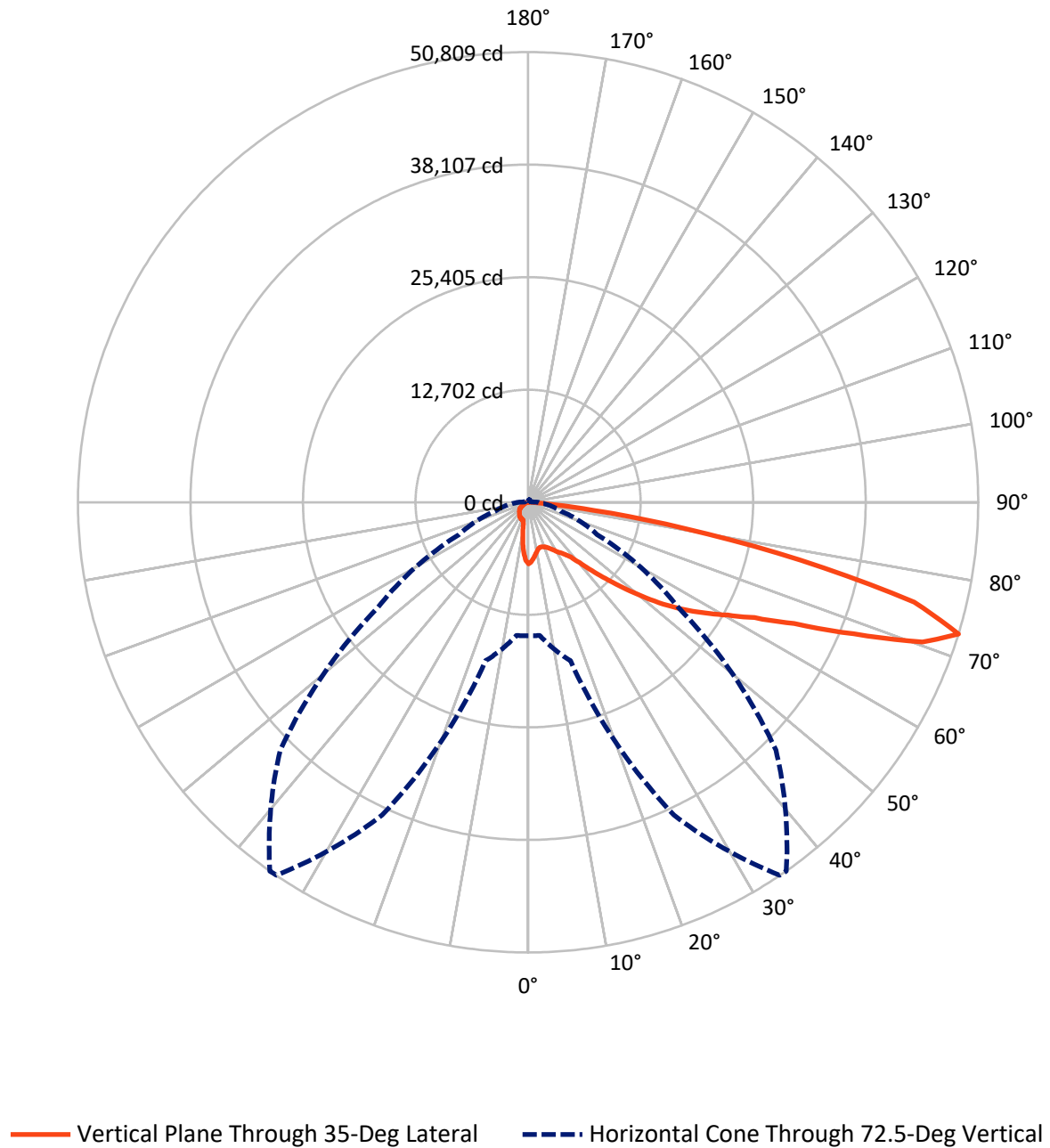
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.1 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5391.5	0.0	5391.5
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	42513.5	0.0	42513.5
	% Fixture	88.7	0.0	88.7
Total	Lumens	47905.0	0.0	47905.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	570.5	1.2
10°-20°	1334.7	2.8
20°-30°	2168.2	4.5
30°-40°	3617.6	7.6
40°-50°	6844.6	14.3
50°-60°	10876.0	22.7
60°-70°	13454.3	28.1
70°-80°	8363.3	17.5
80°-90°	675.9	1.4
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°	47905.0	100.0
0°-180°	47905.0	100.0

Coefficient of Utilization



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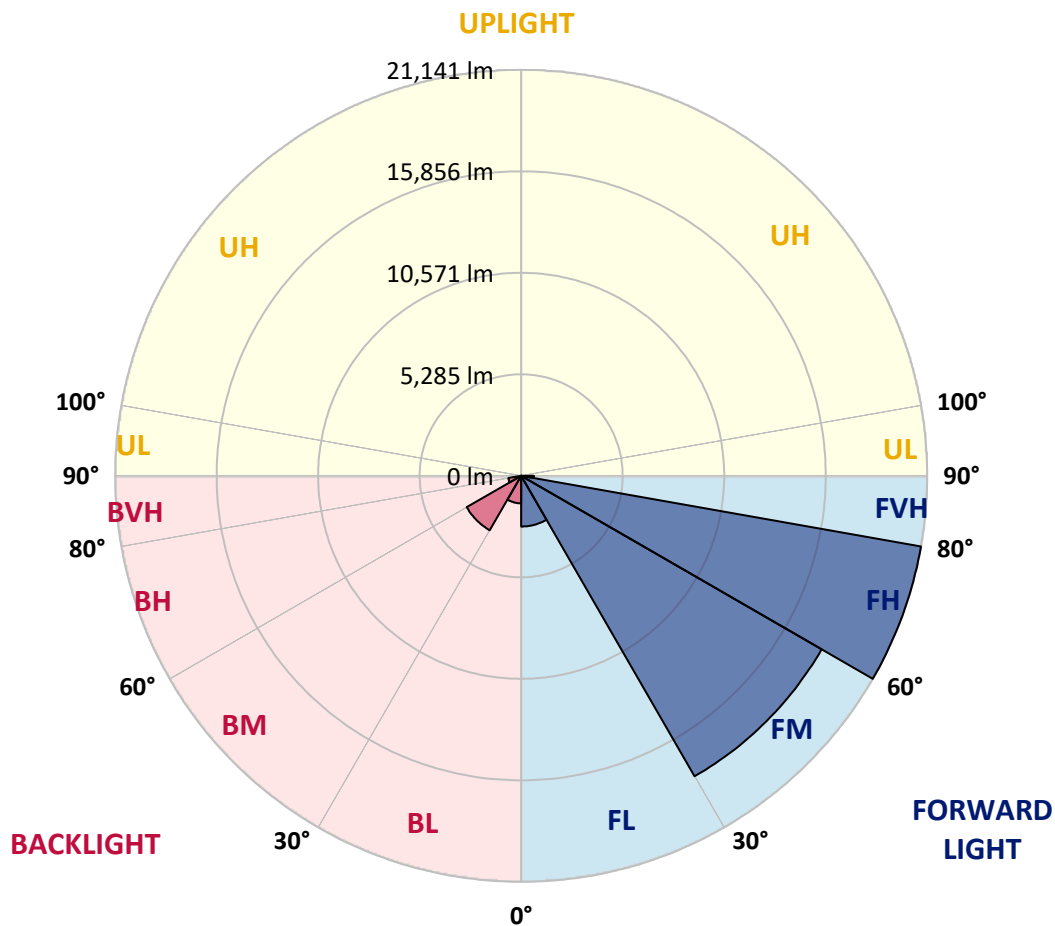
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2640.8	5.5			
FM	(30°-60°)	18065.0	37.7			
FH	(60°-80°)	21141.1	44.1			G5
FVH	(80°-90°)	666.7	1.4			G4/750
BL	(0°-30°)	1432.6	3.0	B3/2500		
BM	(30°-60°)	3273.1	6.8	B3/5000		
BH	(60°-80°)	676.5	1.4	B2/1000		G2/1000
BVH	(80°-90°)	9.2	0.0			G0/10
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°	6943.0	6943.0	6943.0	6943.0	6943.0	6943.0	6943.0	6943.0	6943.0	6943.0	6943.0
2.5°	6634.1	6690.3	6700.8	6718.4	6718.4	6739.5	6774.6	6823.7	6904.4	6946.6	6974.6
5°	6114.6	6156.8	6209.4	6251.5	6332.3	6342.8	6479.7	6613.1	6799.1	6939.5	7037.8
7.5°	5591.6	5640.8	5711.0	5812.8	5918.1	5949.7	6156.8	6381.4	6676.3	6939.5	7104.5
10°	5223.1	5226.6	5289.8	5391.6	5560.0	5598.7	5851.4	6170.8	6539.4	6897.4	7167.7
12.5°	5016.0	5040.5	5068.6	5145.9	5307.3	5331.9	5602.2	5977.8	6402.5	6872.8	7241.4
15°	5016.0	5033.5	5051.1	5089.7	5219.6	5240.6	5479.3	5854.9	6332.3	6883.4	7360.7
17.5°	5068.6	5096.7	5082.7	5128.3	5265.2	5279.2	5489.8	5819.8	6328.8	6950.1	7543.3
20°	5195.0	5216.1	5188.0	5216.1	5353.0	5381.0	5598.7	5886.5	6388.4	7065.9	7771.4
22.5°	5395.1	5405.6	5338.9	5360.0	5500.4	5535.5	5788.2	6076.0	6532.4	7251.9	8076.8
25°	5647.8	5668.9	5567.1	5591.6	5725.0	5767.1	6058.5	6360.4	6760.5	7508.2	8466.4
27.5°	5939.1	5949.7	5861.9	5858.4	6030.4	6090.1	6384.9	6711.4	7065.9	7831.1	8957.9
30°	6272.6	6304.2	6220.0	6205.9	6423.5	6472.7	6764.0	7143.1	7515.2	8315.5	9656.4
32.5°	6535.9	6560.4	6511.3	6546.4	6767.5	6806.1	7223.9	7753.9	8220.7	9003.5	10607.6
35°	6915.0	6929.0	6816.7	6879.9	7132.6	7230.9	7852.2	8610.4	9108.8	9867.0	11850.2
37.5°	8287.4	8287.4	7810.0	7497.6	7739.8	7827.6	8712.1	9688.0	10204.0	11025.3	13415.7
40°	10186.4	10154.8	9456.3	8817.5	8785.9	8957.9	9937.2	11046.4	11618.5	12415.3	15177.8
42.5°	12211.7	12162.6	11211.4	10579.5	10474.2	10533.9	11351.8	12720.7	13303.4	14110.7	17073.3
45°	14008.9	13994.9	13124.4	12274.9	12085.4	12274.9	13117.4	14679.4	15097.1	15946.5	18965.2
47.5°	15514.8	15514.8	14879.4	14324.8	14226.6	14338.9	15507.8	16852.1	16813.5	17901.7	20808.1
50°	17248.8	17234.7	16631.0	16392.3	16494.1	16652.1	18259.7	19140.7	18589.7	19821.7	22454.3
52.5°	18463.3	18547.5	18340.4	18301.8	18821.3	19095.1	21053.8	21380.2	20179.7	21643.5	23686.4
55°	19425.1	19523.4	19762.0	20032.3	21032.7	21390.7	23760.1	23503.8	21510.1	23223.0	24395.4
57.5°	20787.0	20646.6	21015.2	21548.7	23166.9	23598.6	26382.2	25508.1	22580.7	24504.2	24472.6
60°	22440.3	22461.3	22524.5	23198.5	25297.5	25852.1	28965.6	27403.6	23268.7	25290.5	23616.2
62.5°	24427.0	24458.6	24588.5	25624.0	28158.3	28681.3	31717.6	28955.1	23584.6	25069.4	21404.8
65°	24290.1	24423.5	25873.2	29414.9	32507.3	33023.3	34929.3	30043.2	23107.2	23047.5	17427.8
67.5°	22127.9	22345.5	24771.0	33943.0	39064.3	39639.9	38811.5	30257.3	21046.8	17922.7	11369.3
70°	19291.7	19368.9	22285.8	38014.7	46656.7	47239.4	42286.6	27902.0	15971.1	9996.9	5093.2
72.5°	15065.5	15083.0	18505.4	38959.0	50777.6	50809.2	39559.2	20713.3	8589.3	3840.1	1769.1
75°	10762.1	10656.8	12394.3	31594.7	44673.4	45031.5	29657.1	9716.0	3282.0	1814.7	881.0
77.5°	5770.7	5886.5	7013.2	18737.1	30861.1	31471.8	16181.7	2801.1	1670.8	1235.6	582.7
80°	1783.1	1881.4	2874.8	8578.8	17480.5	17849.0	5998.8	1246.1	1165.4	881.0	382.6
82.5°	561.6	582.7	1340.9	3604.9	7255.4	7423.9	1737.5	705.5	796.8	582.7	224.6
85°	161.5	165.0	596.7	1344.4	1793.7	1828.8	487.9	273.8	456.3	361.5	115.8
87.5°	17.6	56.2	224.6	224.6	158.0	154.4	52.7	59.7	129.9	45.6	21.1
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°	6943.0	6943.0	6943.0	6943.0	6943.0	6943.0	6943.0	6943.0	6943.0	6943.0	6943.0
2.5°	6957.1	6960.6	6915.0	6837.7	6753.5	6683.3	6595.5	6525.3	6476.2	6462.2	6486.7
5°	7006.2	6981.7	6851.8	6616.6	6335.8	6093.6	5823.3	5609.2	5468.8	5409.1	5430.2
7.5°	7079.9	7009.7	6725.4	6262.1	5725.0	5247.6	4763.2	4387.7	4149.0	4029.6	4047.2
10°	7143.1	7002.7	6514.8	5749.6	4928.2	4205.1	3552.3	3099.4	2846.7	2727.4	2730.9
12.5°	7202.8	6999.2	6241.0	5142.3	4029.6	3145.1	2537.8	2313.2	2243.0	2218.4	2211.4
15°	7315.1	7009.7	5897.0	4447.3	3134.5	2376.4	2155.2	2151.7	2165.8	2158.7	2155.2
17.5°	7469.6	7020.3	5507.4	3710.2	2418.5	2095.5	2085.0	2116.6	2137.7	2127.1	2123.6
20°	7669.6	7062.4	5093.2	2980.1	2078.0	2025.3	2049.9	2078.0	2095.5	2078.0	2074.5
22.5°	7950.4	7136.1	4640.4	2393.9	1969.2	1983.2	2004.3	2035.9	2053.4	2028.9	2025.3
25°	8294.4	7251.9	4194.6	2081.5	1916.5	1934.1	1965.7	2000.8	2021.8	1997.3	1993.8
27.5°	8740.2	7438.0	3783.9	2011.3	1863.9	1874.4	1920.0	1972.7	2000.8	1969.2	1969.2
30°	9386.1	7743.4	3429.4	2042.9	1832.3	1807.7	1870.9	1944.6	1976.2	1948.1	1944.6
32.5°	10242.6	8175.1	3211.8	2092.0	1818.2	1730.5	1790.2	1884.9	1937.6	1920.0	1920.0
35°	11365.8	8831.5	3127.5	2148.2	1807.7	1649.8	1691.9	1793.7	1884.9	1902.5	1902.5
37.5°	12727.7	9744.1	3152.1	2172.8	1776.1	1583.1	1604.1	1691.9	1811.2	1867.4	1881.4
40°	14275.7	10807.7	3292.5	2148.2	1741.0	1526.9	1530.4	1597.1	1702.4	1786.7	1814.7
42.5°	15872.8	12050.3	3552.3	2056.9	1709.4	1477.8	1467.2	1512.9	1583.1	1642.7	1667.3
45°	17392.7	13328.0	3808.5	1930.6	1670.8	1428.6	1404.1	1421.6	1435.6	1460.2	1474.3
47.5°	18719.5	14226.6	3734.8	1814.7	1618.2	1372.5	1330.3	1323.3	1281.2	1277.7	1274.2
50°	19635.7	14423.1	3317.1	1698.9	1540.9	1309.3	1242.6	1200.5	1126.8	1091.7	1095.2
52.5°	19927.0	13647.4	2709.8	1583.1	1414.6	1225.0	1130.3	1063.6	972.3	940.7	937.2
55°	19540.9	12127.5	2165.8	1442.7	1239.1	1112.7	1007.4	919.7	845.9	807.3	807.3
57.5°	18596.7	10193.4	1712.9	1277.7	1053.0	986.3	881.0	793.3	730.1	691.5	684.5
60°	17031.2	8094.4	1354.9	1081.1	898.6	849.5	740.6	684.5	628.3	582.7	572.2
62.5°	14654.8	5777.7	1063.6	856.5	751.2	695.0	631.8	589.7	523.0	459.8	449.3
65°	11436.0	3534.7	821.4	628.3	603.7	575.7	537.1	498.4	417.7	354.5	344.0
67.5°	7213.3	1674.3	586.2	473.9	477.4	463.3	445.8	414.2	354.5	298.4	291.3
70°	3176.7	810.8	386.1	361.5	354.5	354.5	368.6	358.0	301.9	249.2	238.7
72.5°	1081.1	435.3	287.8	273.8	256.2	252.7	308.9	298.4	242.2	193.1	182.5
75°	565.1	291.3	210.6	196.6	154.4	186.0	245.7	231.7	172.0	126.4	115.8
77.5°	368.6	207.1	143.9	126.4	87.8	122.9	182.5	161.5	101.8	63.2	56.2
80°	231.7	136.9	84.2	59.7	42.1	66.7	98.3	70.2	38.6	14.0	10.5
82.5°	122.9	70.2	31.6	21.1	17.6	21.1	24.6	17.6	7.0	0.0	0.0
85°	49.1	24.6	10.5	7.0	3.5	0.0	7.0	3.5	0.0	0.0	0.0
87.5°	17.6	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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)