

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: P943824

Luminaire Tested: **GALN-SB8C-727-U-T2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943824
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB8C-727-U-T2-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 41017 lumens
Efficiency: N/A
Efficacy: 102.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

Input Watts (W): 399.8
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

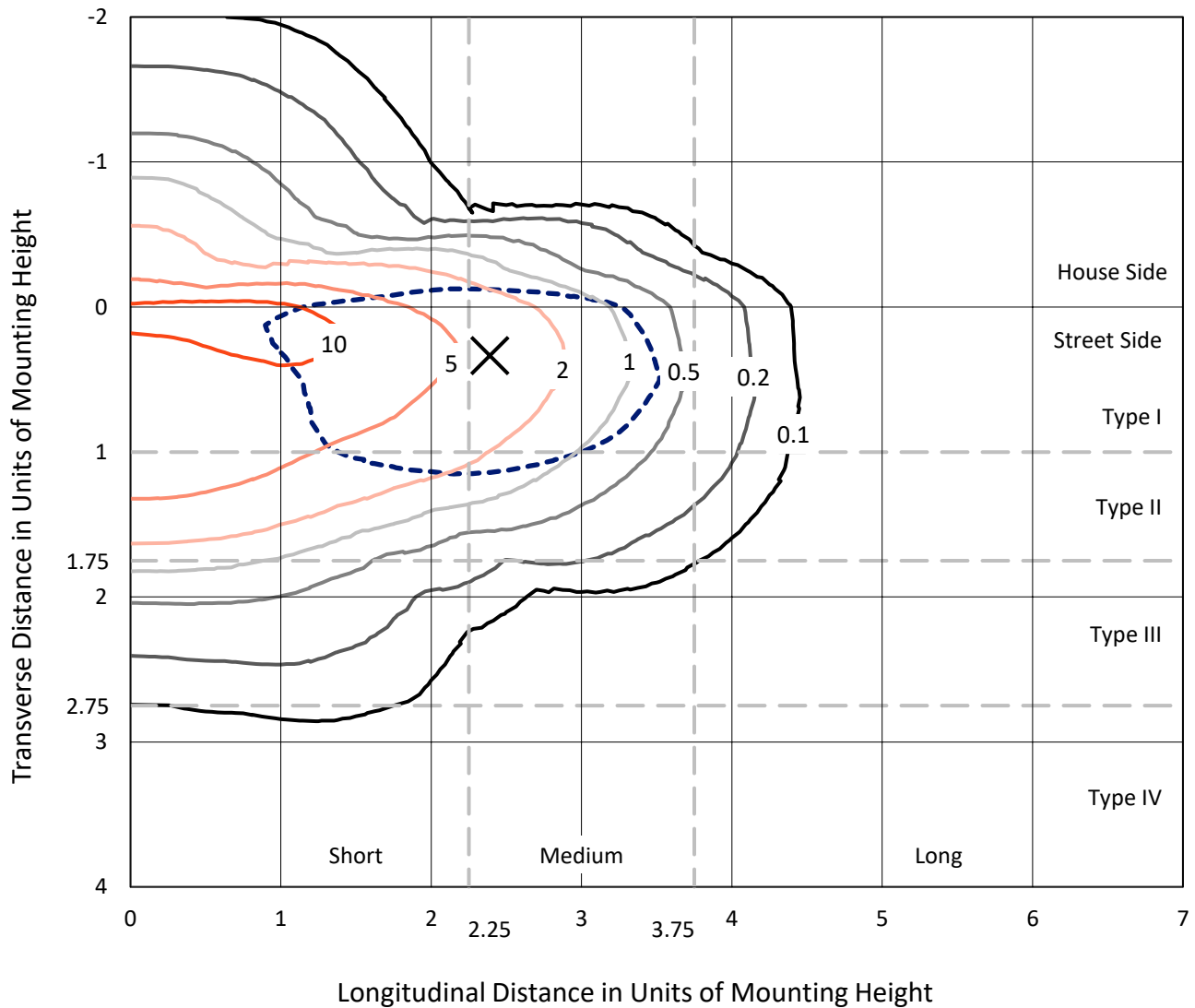


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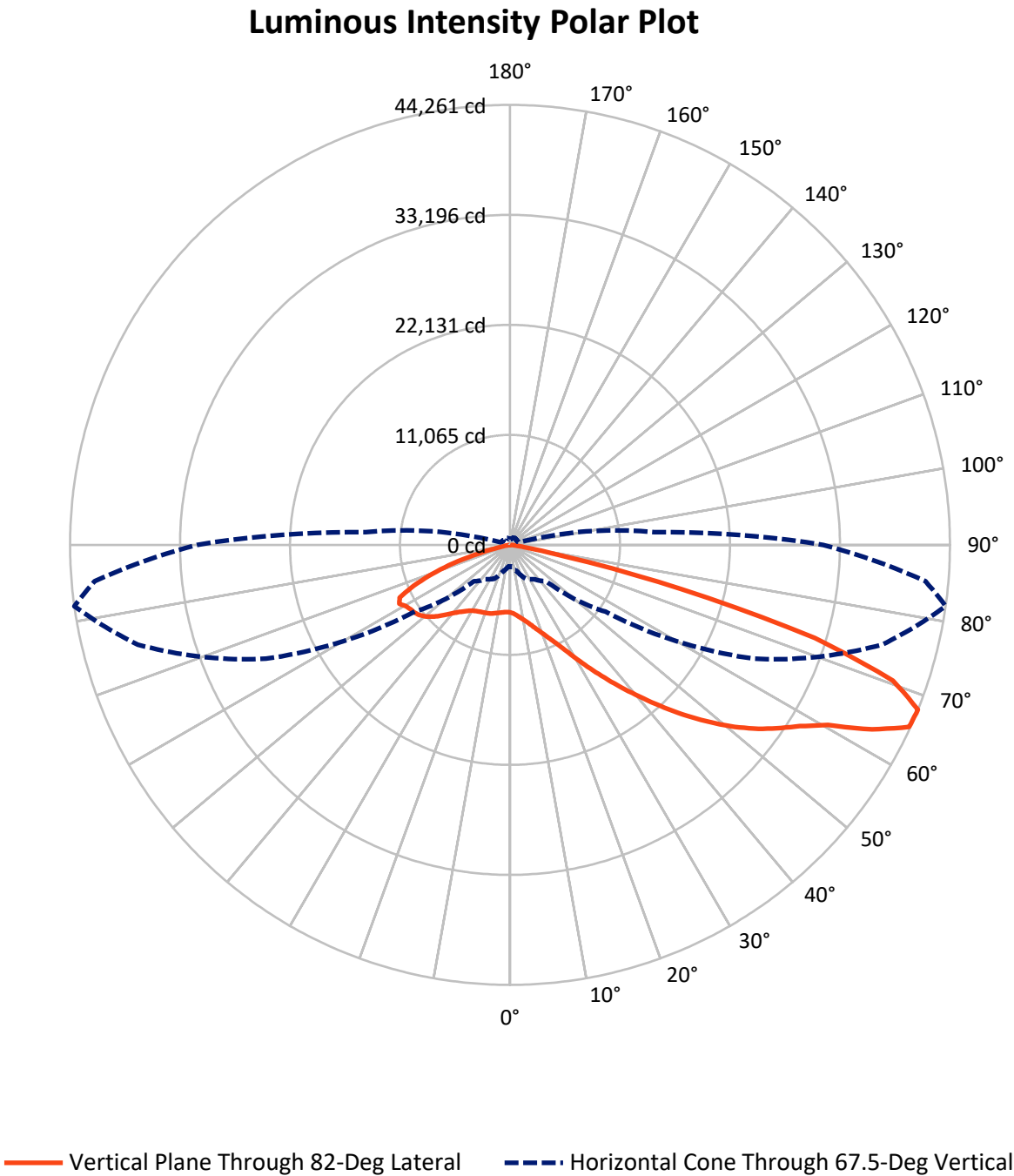
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7429.9	0.0	7429.9
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	33587.1	0.0	33587.1
	% Fixture	81.9	0.0	81.9
Total	Lumens	41017.0	0.0	41017.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	605.4	1.5
10°-20°	1573.2	3.8
20°-30°	2519.7	6.1
30°-40°	4455.7	10.9
40°-50°	7806.7	19.0
50°-60°	10412.0	25.4
60°-70°	9693.0	23.6
70°-80°	3720.2	9.1
80°-90°	231.1	0.6
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°	41017.0	100.0
0°-180°	41017.0	100.0

Coefficient of Utilization



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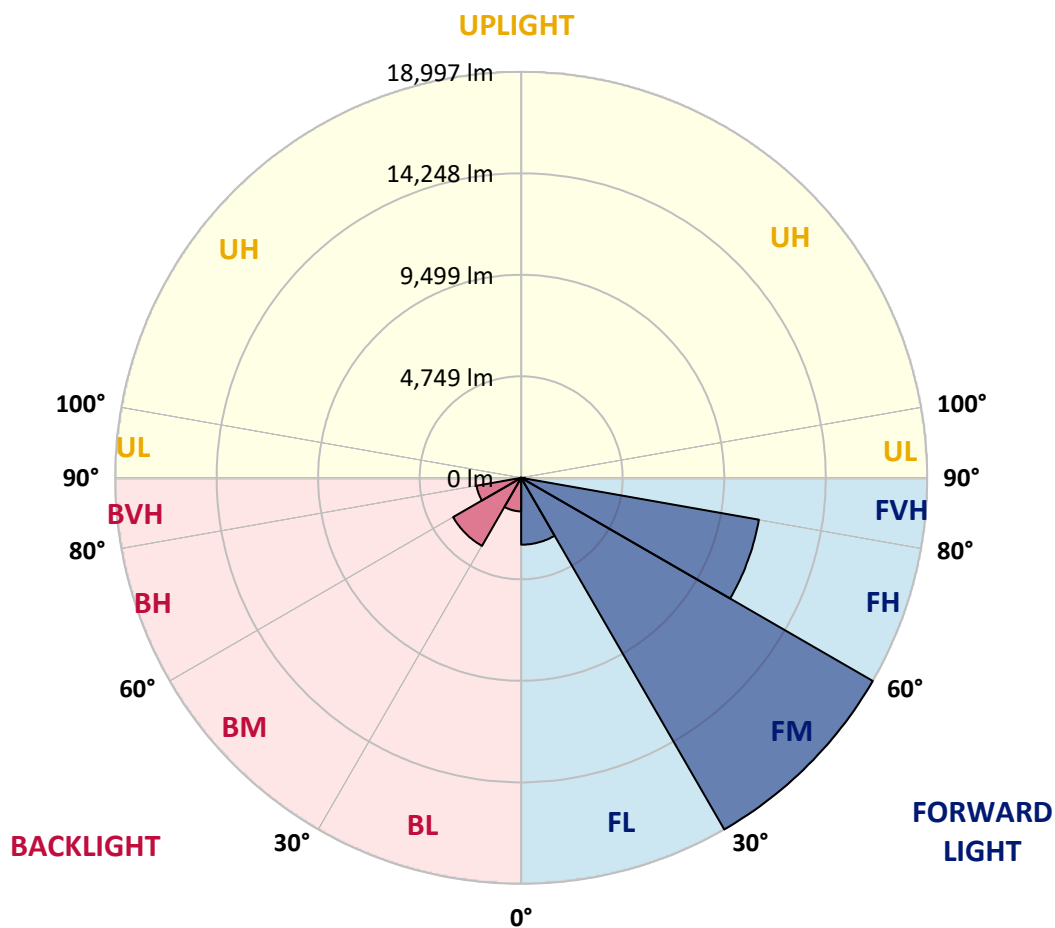
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3129.1	7.6			
FM	(30°-60°)	18997.4	46.3			
FH	(60°-80°)	11292.6	27.5			G4/12000
FVH	(80°-90°)	168.0	0.4			G2/225
BL	(0°-30°)	1569.2	3.8	B3/2500		
BM	(30°-60°)	3677.0	9.0	B3/5000		
BH	(60°-80°)	2120.6	5.2	B3/2500		G3/2500
BVH	(80°-90°)	63.1	0.2			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 II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	6795.1	6795.1	6795.1	6795.1	6795.1	6795.1	6795.1	6795.1	6795.1	6795.1	6795.1
2.5°	7182.0	7223.3	7199.7	7187.9	7167.2	7137.7	7114.1	7040.2	6963.5	6913.3	6895.5
5°	7326.7	7368.0	7365.1	7376.9	7391.7	7400.5	7394.6	7311.9	7202.7	7117.0	7066.8
7.5°	7202.7	7249.9	7288.3	7347.4	7450.7	7560.0	7613.1	7595.4	7483.2	7365.1	7303.1
10°	6851.2	6901.4	6993.0	7131.8	7350.3	7586.6	7784.4	7876.0	7805.1	7675.2	7589.5
12.5°	6207.5	6257.7	6437.8	6739.0	7105.2	7515.7	7893.7	8138.8	8156.5	8026.6	7926.2
15°	5483.9	5534.1	5726.1	6104.1	6662.2	7320.8	7952.8	8416.4	8572.9	8460.7	8339.6
17.5°	5035.1	5079.4	5224.1	5528.2	6110.0	6931.0	7932.1	8711.7	9069.0	8980.4	8835.7
20°	4899.2	4937.6	5005.5	5218.2	5702.5	6526.4	7796.2	8989.3	9603.5	9553.3	9390.9
22.5°	5043.9	5079.4	5100.0	5194.5	5498.7	6260.6	7625.0	9272.8	10223.7	10229.6	10031.7
25°	5377.6	5413.1	5389.4	5448.5	5581.4	6177.9	7560.0	9606.5	11003.3	11068.3	10843.9
27.5°	5926.9	5929.9	5873.8	5870.8	5891.5	6302.0	7627.9	9963.8	11986.7	12107.8	11830.2
30°	7028.4	6984.1	6768.6	6535.3	6428.9	6674.1	7816.9	10386.1	13147.3	13362.9	13014.4
32.5°	8726.5	8661.5	8265.8	7707.6	7146.6	7273.5	8156.5	10867.5	14411.2	14801.0	14375.8
35°	10569.2	10551.5	10138.1	9308.2	8327.8	8127.0	8708.8	11499.4	15790.3	16410.5	15905.5
37.5°	12282.0	12273.2	12036.9	11059.4	9866.4	9317.1	9594.7	12326.3	17266.9	18164.6	17568.1
40°	13847.2	13873.8	13637.5	12763.4	11561.5	10843.9	10799.6	13348.1	18908.8	20075.3	19366.6
42.5°	15199.7	15229.2	14990.0	14343.3	13235.9	12533.0	12279.1	14600.2	20512.4	22127.7	21289.0
45°	16118.1	16301.2	16265.8	15749.0	14954.6	14225.2	14056.9	16171.3	22340.4	24304.2	23320.8
47.5°	16378.0	16546.3	16812.1	16883.0	16398.7	15681.1	15881.9	18064.2	24189.0	26483.6	25364.3
50°	15737.2	15893.7	16445.9	17181.3	17517.9	17296.4	17656.7	20093.0	26082.0	28657.1	27369.5
52.5°	14473.2	14632.7	15329.6	16493.2	17866.4	18563.3	19437.4	22092.3	27915.8	30715.4	29268.4
55°	12645.3	12813.6	13708.4	15025.5	17201.9	19086.0	20922.9	24088.6	29596.2	32567.0	30981.2
57.5°	10158.7	10282.8	11213.0	13055.7	15530.5	18566.3	22018.5	26268.0	31179.0	34386.1	32679.2
60°	6620.9	6730.2	7811.0	9866.4	12760.4	16829.8	22237.0	28698.4	33281.7	36751.6	34967.9
62.5°	4403.1	4476.9	5117.8	6626.8	8986.3	13495.8	20958.3	30638.6	36364.7	40868.2	38892.6
65°	3021.0	3094.9	3735.7	4787.0	5805.8	8927.3	17281.7	30381.7	39158.4	44137.3	41801.4
67.5°	2155.8	2217.8	2761.2	3753.4	4202.3	5185.7	11715.0	27097.8	38756.7	44261.4	41957.9
70°	1544.5	1579.9	2028.8	2923.6	3340.0	3115.5	6514.6	20725.0	33934.3	40871.2	38762.7
72.5°	1080.8	1092.7	1408.6	2226.7	2690.3	2273.9	3100.8	13817.6	25665.6	32079.7	30050.9
75°	732.4	747.1	948.0	1633.1	2158.7	1736.4	1641.9	7409.4	15066.8	17757.1	15917.3
77.5°	448.9	454.8	611.3	1116.3	1615.4	1323.0	1057.2	3139.2	5829.5	5723.1	4878.6
80°	254.0	254.0	389.8	694.0	1101.5	853.5	741.2	1334.8	1845.7	1621.3	1429.3
82.5°	141.7	144.7	283.5	431.2	729.4	505.0	407.5	617.2	797.3	705.8	614.2
85°	59.1	65.0	174.2	203.8	348.5	251.0	165.4	259.9	295.3	262.8	192.0
87.5°	5.9	8.9	53.2	38.4	41.3	50.2	23.6	50.2	41.3	41.3	29.5
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°	6795.1	6795.1	6795.1	6795.1	6795.1	6795.1	6795.1	6795.1	6795.1	6795.1	6795.1
2.5°	6839.4	6795.1	6682.9	6553.0	6381.7	6299.0	6186.8	6110.0	6045.0	6050.9	5991.9
5°	6972.3	6860.1	6609.1	6296.1	5906.2	5628.6	5333.3	5129.6	4964.2	4928.8	4849.0
7.5°	7155.4	6978.2	6538.2	5974.2	5315.6	4816.5	4370.6	4084.2	3880.4	3815.4	3750.5
10°	7391.7	7134.7	6446.7	5569.6	4621.6	3986.7	3508.3	3283.9	3145.1	3097.8	3062.4
12.5°	7666.3	7314.9	6325.6	5076.4	3907.0	3295.7	2991.5	2879.3	2835.0	2820.2	2811.4
15°	8011.8	7539.3	6142.5	4491.7	3301.6	2873.4	2743.4	2728.7	2734.6	2728.7	2725.7
17.5°	8422.3	7784.4	5844.2	3889.3	2894.1	2657.8	2610.6	2622.4	2637.1	2634.2	2628.3
20°	8871.2	8026.6	5463.3	3354.7	2616.5	2504.2	2477.7	2489.5	2501.3	2495.4	2492.4
22.5°	9382.1	8286.5	5041.0	2938.4	2430.4	2362.5	2333.0	2335.9	2335.9	2324.1	2318.2
25°	9993.4	8572.9	4598.0	2643.0	2288.7	2235.5	2200.1	2188.3	2170.5	2135.1	2129.2
27.5°	10722.8	8877.1	4172.8	2436.3	2176.4	2126.2	2084.9	2055.4	2011.1	1952.0	1946.1
30°	11543.7	9246.2	3812.5	2306.4	2087.9	2037.7	1990.4	1946.1	1881.1	1807.3	1801.4
32.5°	12509.4	9641.9	3549.7	2220.7	2008.1	1955.0	1898.9	1845.7	1774.8	1701.0	1704.0
35°	13661.1	10120.3	3396.1	2161.7	1946.1	1875.2	1813.2	1754.2	1701.0	1636.0	1630.1
37.5°	14910.3	10628.3	3348.8	2132.2	1904.8	1795.5	1724.6	1683.3	1677.4	1639.0	1636.0
40°	16277.6	11230.7	3384.3	2114.4	1860.5	1718.7	1641.9	1633.1	1647.8	1579.9	1582.9
42.5°	17724.6	11945.4	3443.3	2093.8	1798.5	1641.9	1568.1	1568.1	1556.3	1461.8	1461.8
45°	19289.8	12769.3	3502.4	2043.6	1724.6	1565.2	1509.0	1488.4	1438.2	1346.6	1343.7
47.5°	20866.7	13608.0	3546.7	1952.0	1636.0	1500.2	1450.0	1402.7	1328.9	1246.2	1243.3
50°	22364.0	14361.0	3499.4	1816.2	1535.6	1438.2	1385.0	1320.0	1240.3	1184.2	1175.3
52.5°	23701.7	15013.7	3298.6	1656.7	1429.3	1373.2	1326.0	1258.0	1193.1	1134.0	1128.1
55°	24865.3	15542.3	2944.3	1506.1	1334.8	1317.1	1269.8	1184.2	1095.6	1045.4	1039.5
57.5°	25981.5	15943.9	2501.3	1382.1	1249.2	1255.1	1184.2	1107.4	1024.7	971.6	965.7
60°	27467.0	16481.4	2052.4	1266.9	1157.6	1175.3	1098.6	1042.5	939.1	871.2	862.3
62.5°	29841.3	17317.1	1630.1	1125.1	1051.3	1057.2	1024.7	956.8	832.8	753.0	747.1
65°	31725.4	17010.0	1284.6	971.6	930.2	939.1	939.1	865.3	732.4	640.8	632.0
67.5°	31512.7	14564.8	1024.7	821.0	815.1	821.0	841.6	779.6	649.7	575.9	564.0
70°	29029.2	11585.1	821.0	682.2	708.7	694.0	753.0	711.7	584.7	510.9	502.0
72.5°	23687.0	8345.5	626.1	564.0	543.4	567.0	679.2	640.8	487.3	404.6	395.7
75°	13841.3	4453.3	466.6	445.9	392.8	472.5	602.4	546.3	372.1	298.3	289.4
77.5°	4506.5	1553.3	342.6	327.8	292.4	381.0	513.8	460.7	304.2	236.2	227.4
80°	1207.8	469.5	233.3	215.6	189.0	283.5	407.5	366.2	218.5	153.6	150.6
82.5°	484.3	197.9	135.8	121.1	103.4	194.9	321.9	295.3	162.4	97.5	97.5
85°	156.5	65.0	50.2	38.4	47.2	121.1	192.0	200.8	115.2	50.2	38.4
87.5°	20.7	8.9	8.9	11.8	8.9	20.7	59.1	56.1	32.5	5.9	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)