

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: P944507

Luminaire Tested: **GALN-SB9C-727-U-T3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944507
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)
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-T3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 63313 lumens
Efficiency: N/A
Efficacy: 140.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - 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

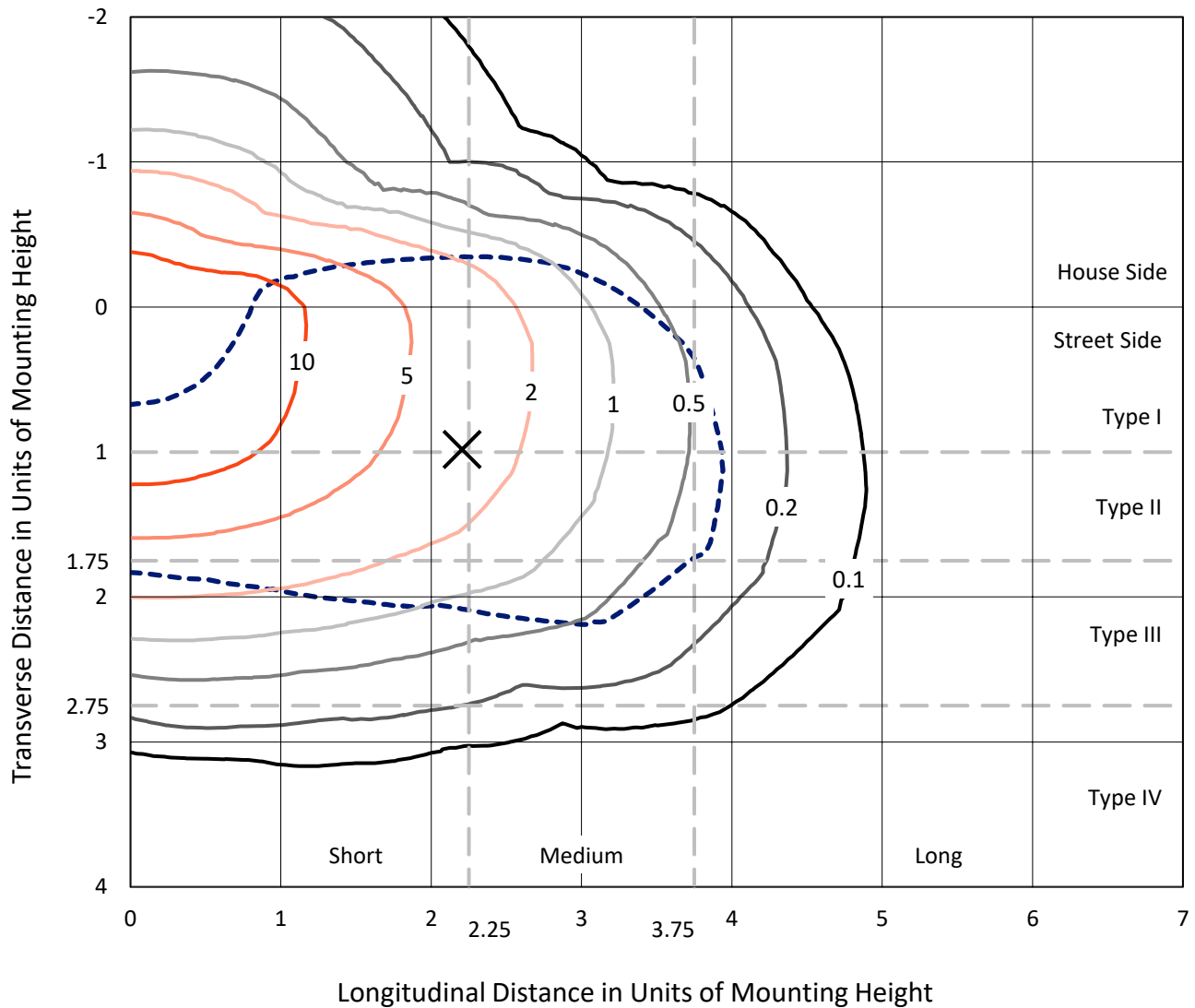


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

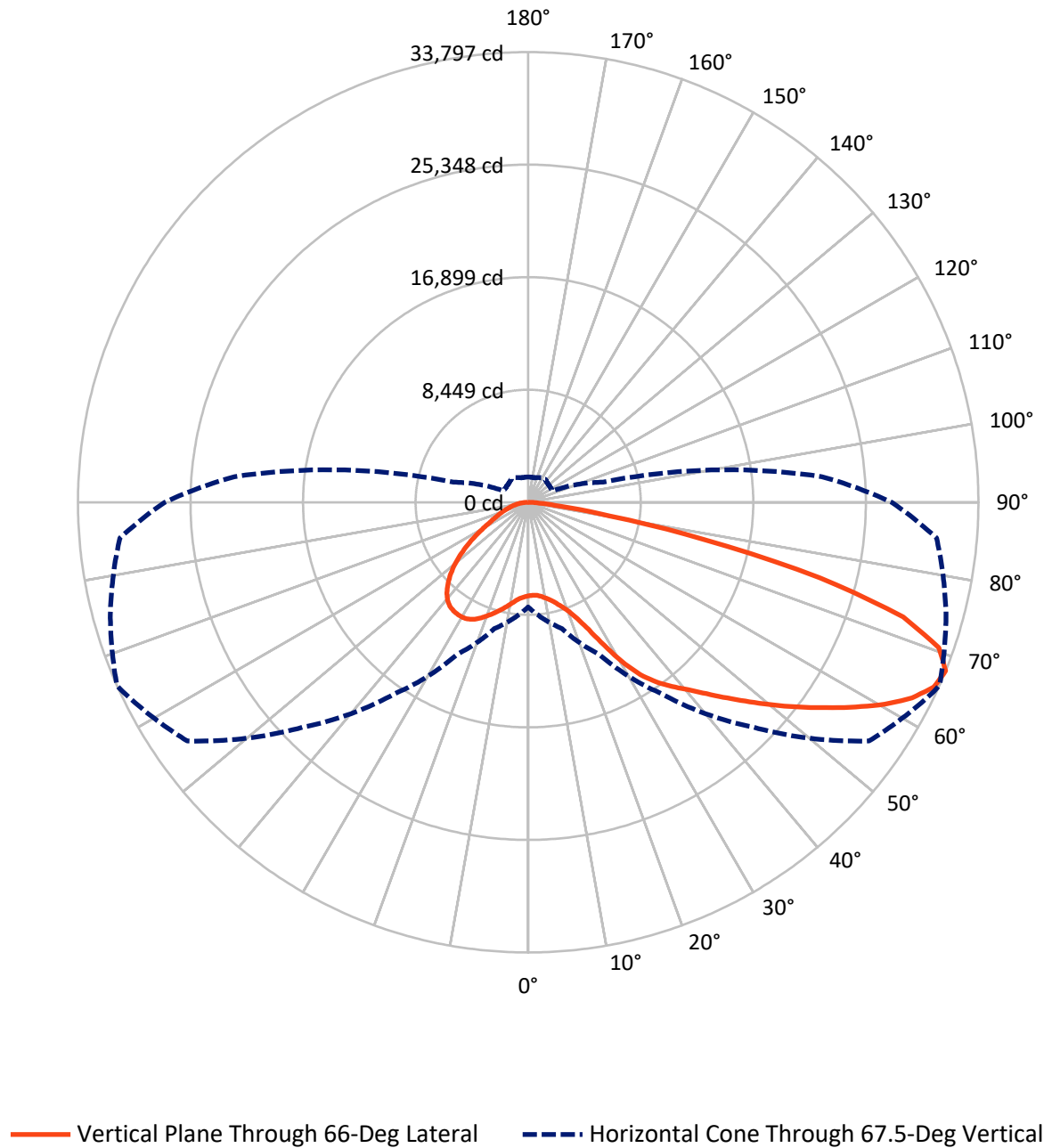


Based on 25 foot mounting height. Maximum calculated value = 15.9 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	15742.6	0.0	15742.6
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	47570.4	0.0	47570.4
	% Fixture	75.1	0.0	75.1
Total	Lumens	63313.0	0.0	63313.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	696.2	1.1
10°-20°	2300.2	3.6
20°-30°	4433.6	7.0
30°-40°	7773.7	12.3
40°-50°	11557.0	18.3
50°-60°	14649.6	23.1
60°-70°	14334.3	22.6
70°-80°	6837.6	10.8
80°-90°	730.8	1.2
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°	63313.0	100.0
0°-180°	63313.0	100.0

Coefficient of Utilization



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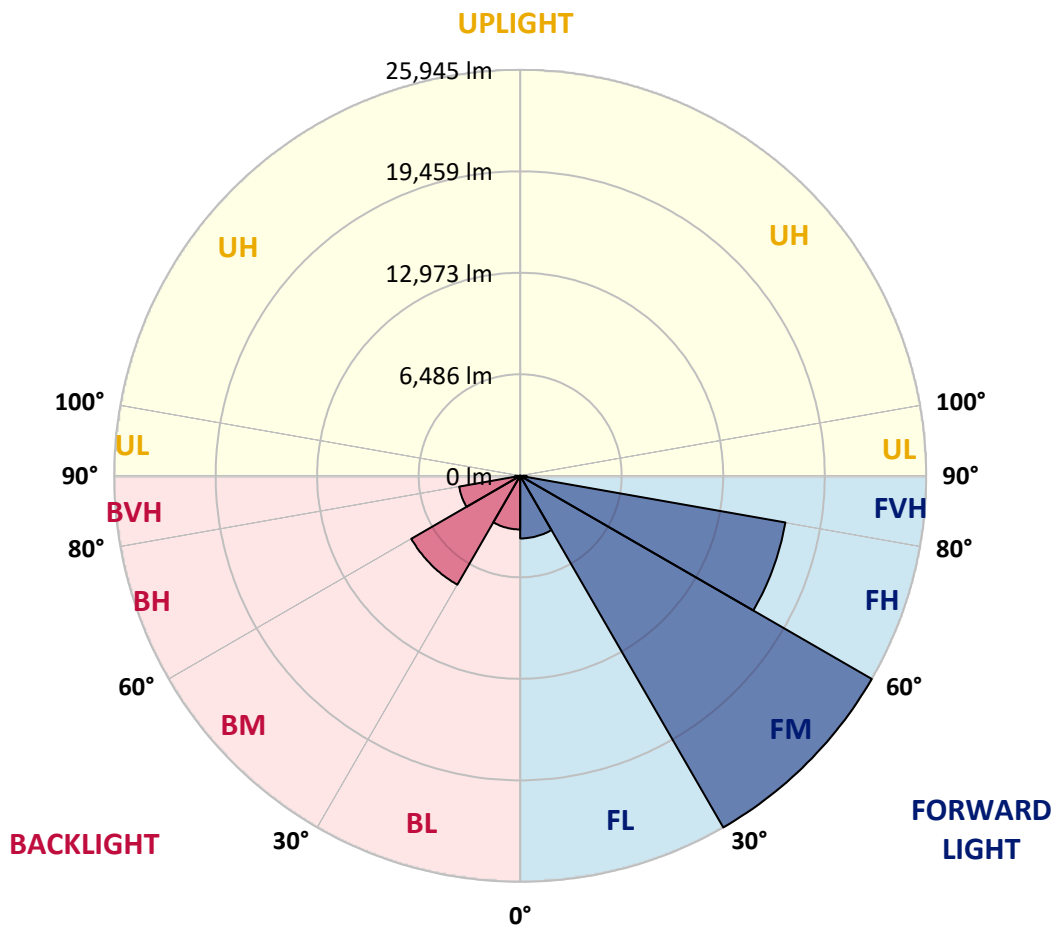
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4000.8	6.3			
FM	(30°-60°)	25945.1	41.0			
FH	(60°-80°)	17210.2	27.2			G5
FVH	(80°-90°)	414.3	0.7			G3/500
BL	(0°-30°)	3429.3	5.4	B4/5000		
BM	(30°-60°)	8035.2	12.7	B4/8500		
BH	(60°-80°)	3961.7	6.3	B4/5000		G4/5000
BVH	(80°-90°)	316.4	0.5			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	7022.2	7022.2	7022.2	7022.2	7022.2	7022.2	7022.2	7022.2	7022.2	7022.2	7022.2
2.5°	6949.1	6989.0	6979.0	6962.4	6959.0	6965.7	6975.7	6985.7	6982.3	6999.0	7025.6
5°	6929.1	6969.0	6965.7	6965.7	6979.0	7005.6	7022.2	7038.9	7022.2	7042.2	7078.8
7.5°	6942.4	6972.4	6985.7	6999.0	7032.2	7082.1	7122.0	7158.6	7138.7	7162.0	7208.5
10°	7112.1	7135.3	7148.7	7148.7	7171.9	7228.5	7268.4	7334.9	7318.3	7354.9	7414.8
12.5°	7421.4	7444.7	7444.7	7431.4	7448.0	7484.6	7497.9	7571.1	7541.2	7601.1	7660.9
15°	7800.7	7847.2	7810.6	7787.3	7794.0	7830.6	7827.3	7883.8	7853.9	7903.8	7957.0
17.5°	8219.8	8279.7	8219.8	8216.5	8203.2	8243.1	8246.4	8296.3	8243.1	8279.7	8316.3
20°	8715.4	8798.6	8748.7	8765.3	8735.4	8752.0	8768.7	8841.8	8758.7	8785.3	8775.3
22.5°	9414.0	9513.8	9460.6	9523.8	9503.8	9490.5	9487.2	9616.9	9487.2	9497.2	9400.7
25°	10431.9	10551.7	10458.5	10545.0	10545.0	10588.3	10638.2	10804.5	10588.3	10525.1	10275.6
27.5°	11935.5	12055.2	11872.3	11925.5	11908.9	12015.3	11962.1	12374.6	12141.7	12038.6	11536.3
30°	13745.1	13958.0	13612.1	13598.7	13582.1	13751.8	13828.3	14101.0	13864.9	13761.7	13156.3
32.5°	15701.1	15924.0	15511.5	15391.7	15328.5	15431.6	15368.4	15588.0	15425.0	15265.3	14516.9
35°	17770.2	17989.7	17597.2	17364.3	17111.5	16895.3	16669.1	16725.7	16572.6	16329.8	15554.7
37.5°	19726.2	20128.7	19712.9	19463.4	18997.7	18575.2	17943.2	17680.4	17537.3	17314.4	16532.7
40°	21718.7	21948.3	21632.3	21419.4	20913.7	20251.8	19240.5	18685.0	18492.0	18275.8	17613.8
42.5°	23185.7	23405.3	23235.6	23089.3	22693.4	21925.0	20617.7	19922.4	19643.0	19400.2	18838.0
45°	24350.0	24513.0	24406.6	24459.8	24290.1	23545.0	22044.7	21249.7	20960.3	20664.2	20221.8
47.5°	24819.0	24992.0	25161.7	25477.7	25767.1	25218.2	23578.3	22686.8	22380.7	22078.0	21642.2
50°	24765.8	24942.1	25434.4	26106.4	27004.6	26821.6	25194.9	24216.9	23934.2	23588.2	23185.7
52.5°	24340.0	24539.6	25171.7	26289.4	27719.8	28022.5	26841.6	25797.0	25530.9	25118.4	24715.9
55°	23222.3	23342.1	24290.1	25873.5	27889.4	28860.7	28454.9	27480.2	27214.1	26638.6	26199.5
57.5°	21149.9	21322.9	22703.4	24752.5	27463.6	29429.6	29872.0	29249.9	28993.8	28165.5	27706.4
60°	18445.5	18721.6	20301.6	22869.7	26379.2	29426.2	31159.4	30989.7	30776.8	29669.1	29190.1
62.5°	15385.1	15704.4	17224.6	20208.5	24483.1	28591.3	31964.4	32446.7	32336.9	31056.2	30444.2
65°	11815.7	12035.3	13548.8	16765.6	21532.5	26798.3	32057.5	33441.3	33461.3	32110.7	31099.5
67.5°	7867.2	8499.2	9813.2	12580.8	17580.6	23867.7	31239.2	33604.3	33797.3	32473.3	30770.2
70°	3838.8	4670.4	5957.8	8176.5	12580.8	19373.6	29100.3	32267.1	32696.2	31415.5	28807.5
72.5°	1593.4	1862.8	2564.7	4035.0	7221.8	13073.2	24802.4	28641.2	29436.2	27836.2	24220.3
75°	1074.5	1164.3	1467.0	2069.1	3289.9	6446.8	17886.6	21356.2	22636.9	21023.5	17184.7
77.5°	828.3	884.8	1067.8	1447.0	1956.0	2438.3	9573.7	12870.2	13532.2	12527.6	8941.6
80°	652.0	695.2	798.4	1054.5	1387.2	1304.0	3263.3	5831.4	6213.9	5212.6	2874.1
82.5°	565.5	582.1	572.2	715.2	921.4	761.8	1071.1	2152.2	2375.1	1723.1	938.1
85°	409.2	455.7	475.7	442.4	489.0	385.9	439.1	761.8	838.3	748.5	528.9
87.5°	166.3	246.2	302.7	286.1	179.6	109.8	136.4	222.9	256.1	279.4	173.0
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°	7022.2	7022.2	7022.2	7022.2	7022.2	7022.2	7022.2	7022.2	7022.2	7022.2	7022.2
2.5°	7028.9	7052.2	7068.8	7088.8	7102.1	7122.0	7162.0	7185.2	7188.6	7205.2	7201.9
5°	7092.1	7125.4	7162.0	7215.2	7275.1	7325.0	7401.5	7454.7	7474.7	7491.3	7488.0
7.5°	7228.5	7275.1	7341.6	7434.7	7521.2	7587.8	7680.9	7744.1	7807.3	7830.6	7833.9
10°	7431.4	7497.9	7594.4	7720.8	7814.0	7900.4	7996.9	8050.1	8113.3	8140.0	8153.3
12.5°	7684.2	7754.1	7880.5	8056.8	8143.3	8203.2	8236.4	8223.1	8236.4	8259.7	8266.4
15°	7973.6	8050.1	8193.2	8382.8	8442.7	8389.4	8316.3	8249.7	8239.7	8246.4	8269.7
17.5°	8316.3	8372.8	8539.1	8698.8	8655.6	8436.0	8276.3	8169.9	8116.7	8100.0	8123.3
20°	8795.3	8795.3	8931.7	9031.5	8742.1	8369.5	8120.0	7947.0	7837.2	7790.7	7780.7
22.5°	9377.4	9324.2	9410.7	9340.8	8725.4	8183.2	7837.2	7537.9	7371.5	7305.0	7295.0
25°	10115.9	10052.7	10029.4	9597.0	8605.7	7887.1	7325.0	6962.4	6816.0	6779.4	6786.1
27.5°	11230.3	11070.6	10767.9	9736.7	8386.1	7421.4	6726.2	6390.2	6307.1	6310.4	6320.4
30°	12713.9	12394.6	11652.7	9760.0	8026.9	6762.8	6114.1	5874.6	5834.7	5851.3	5907.9
32.5°	14087.7	13785.0	12557.5	9653.5	7474.7	6117.4	5565.2	5405.6	5345.7	5365.6	5392.3
35°	15165.5	15082.4	13395.8	9503.8	6796.0	5512.0	5072.9	4936.5	4820.1	4793.5	4813.5
37.5°	16183.4	16150.2	14024.5	9294.3	6124.1	5082.9	4677.1	4497.4	4327.8	4234.6	4238.0
40°	17301.1	17267.9	14437.0	8971.6	5528.6	4710.3	4321.1	4084.9	3875.4	3705.7	3722.4
42.5°	18558.6	18362.3	14633.3	8509.2	5023.0	4394.3	4031.7	3712.4	3436.3	3279.9	3289.9
45°	19932.4	19490.0	14630.0	7920.4	4597.2	4104.9	3722.4	3270.0	3013.8	2867.4	2860.8
47.5°	21389.4	20567.8	14450.3	7268.4	4184.7	3785.6	3243.3	2897.4	2727.7	2637.9	2618.0
50°	22893.0	21575.7	14144.3	6519.9	3762.3	3423.0	2944.0	2707.8	2578.0	2494.9	2464.9
52.5°	24306.8	22490.5	13775.1	5671.7	3333.2	3070.4	2810.9	2627.9	2491.6	2398.4	2358.5
55°	25620.7	23278.9	13252.8	4803.5	2983.9	2834.2	2747.7	2594.7	2438.3	2328.6	2285.3
57.5°	26788.3	23791.2	12351.3	3988.5	2734.4	2671.2	2681.2	2538.1	2358.5	2265.3	2205.5
60°	27759.7	24167.0	11017.4	3233.4	2531.5	2511.5	2578.0	2431.7	2222.1	2115.7	2069.1
62.5°	28341.8	24160.4	9380.7	2647.9	2358.5	2365.1	2441.7	2298.6	2085.7	1985.9	1956.0
65°	28291.9	23568.3	7584.4	2265.3	2192.2	2198.8	2298.6	2152.2	1972.6	1912.7	1909.4
67.5°	27290.6	22124.6	5818.1	2015.9	2009.2	2039.1	2155.6	2052.5	1902.8	1896.1	1906.1
70°	24579.5	19127.4	4191.4	1816.3	1819.6	1862.8	2015.9	1989.2	1866.2	1879.5	1876.1
72.5°	19709.5	14583.4	2814.2	1606.7	1610.0	1679.9	1882.8	1939.4	1829.6	2005.9	2032.5
75°	13126.4	9094.7	1809.6	1383.8	1387.2	1477.0	1766.4	1842.9	1729.8	1999.2	2015.9
77.5°	6307.1	4088.3	1310.6	1164.3	1164.3	1247.4	1526.9	1649.9	1473.6	1553.5	1423.7
80°	2178.9	1536.8	1031.2	938.1	918.1	974.7	1287.4	1430.4	1270.7	1170.9	1097.7
82.5°	858.2	798.4	828.3	728.5	662.0	698.6	1001.3	1180.9	934.7	844.9	841.6
85°	492.3	518.9	585.5	482.3	382.5	429.1	735.2	848.3	705.2	622.1	635.4
87.5°	133.1	183.0	269.4	249.5	173.0	183.0	349.3	469.0	405.8	312.7	322.7
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)