

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: P957004

Luminaire Tested: **GALN-SB9C-727-U-T2U-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P957004
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-17)
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-T2U-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 48354 lumens
Efficiency: N/A
Efficacy: 107.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - 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

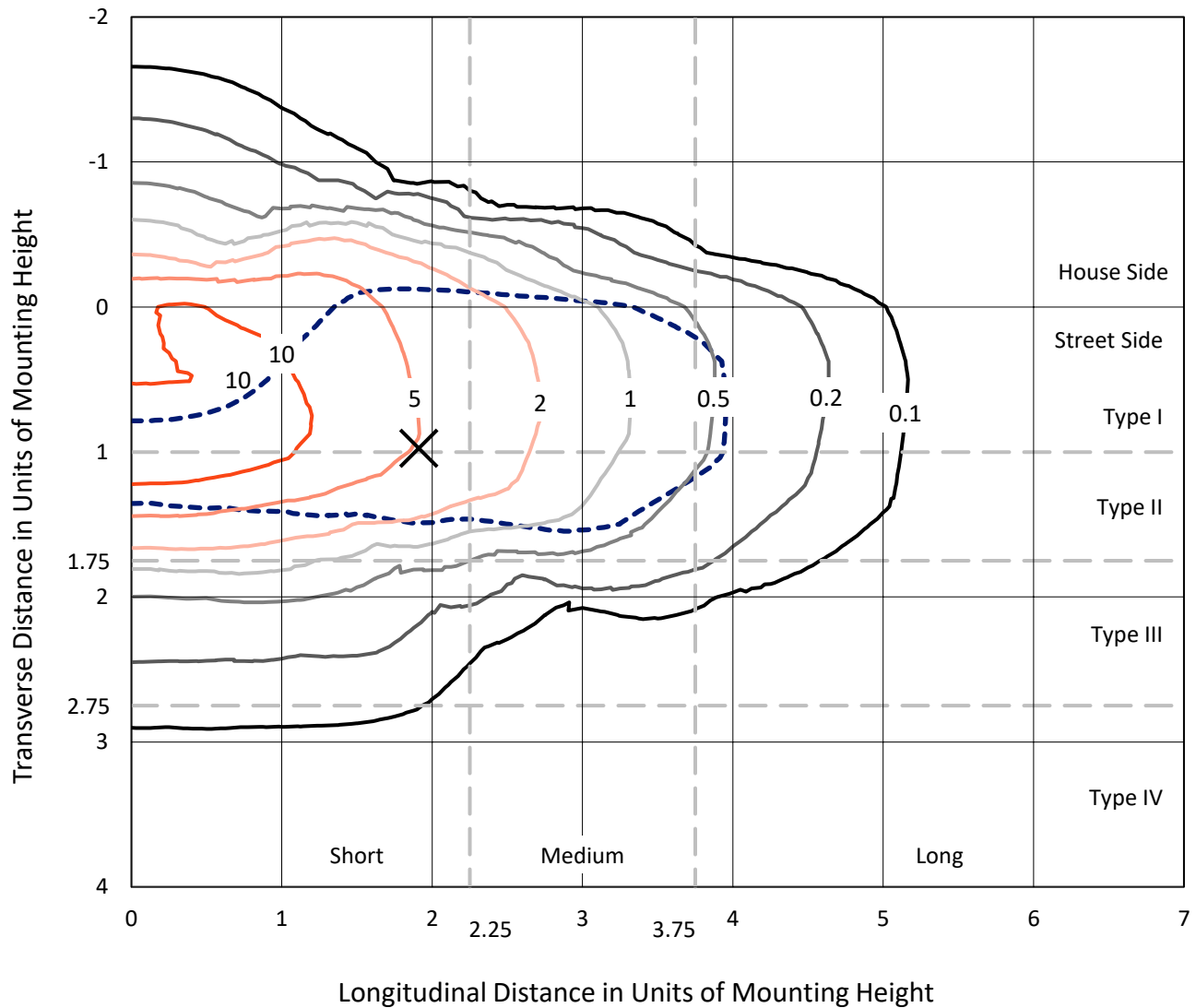


REPORT NUMBER: P957004

CATALOG NUMBER: GALN-SB9C-727-U-T2U-HSS

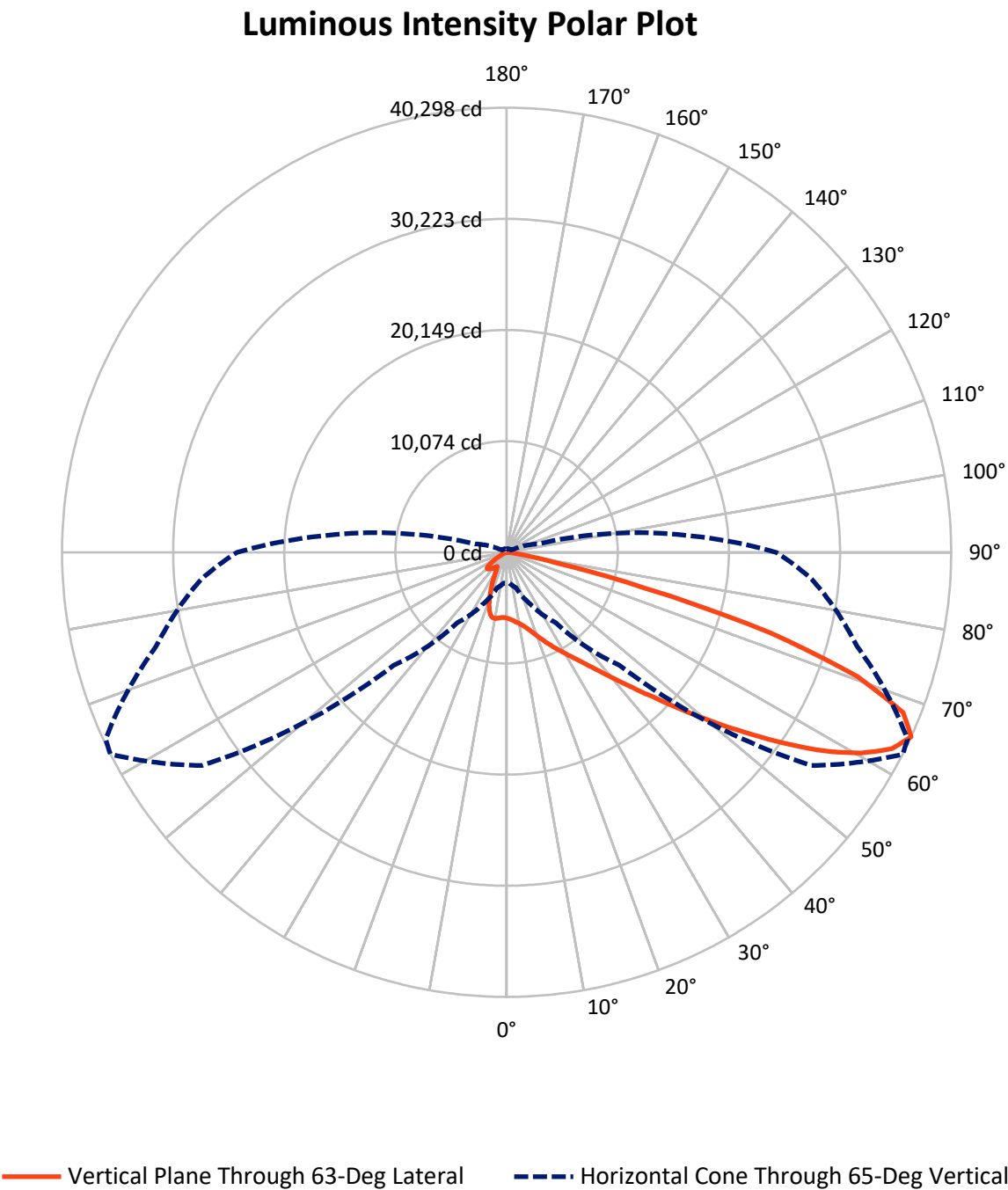
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.4 fc
Type II - Short - N/A

REPORT NUMBER: P957004
CATALOG NUMBER: GALN-SB9C-727-U-T2U-HSS



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7107.7	0.0	7107.7
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	41246.3	0.0	41246.3
	% Fixture	85.3	0.0	85.3
Total	Lumens	48354.0	0.0	48354.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	562.3	1.2
10°-20°	1560.1	3.2
20°-30°	2716.6	5.6
30°-40°	4896.3	10.1
40°-50°	9711.0	20.1
50°-60°	13227.9	27.4
60°-70°	10558.4	21.8
70°-80°	4777.9	9.9
80°-90°	343.4	0.7
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°	48354.0	100.0
0°-180°	48354.0	100.0

Coefficient of Utilization



REPORT NUMBER: P957004

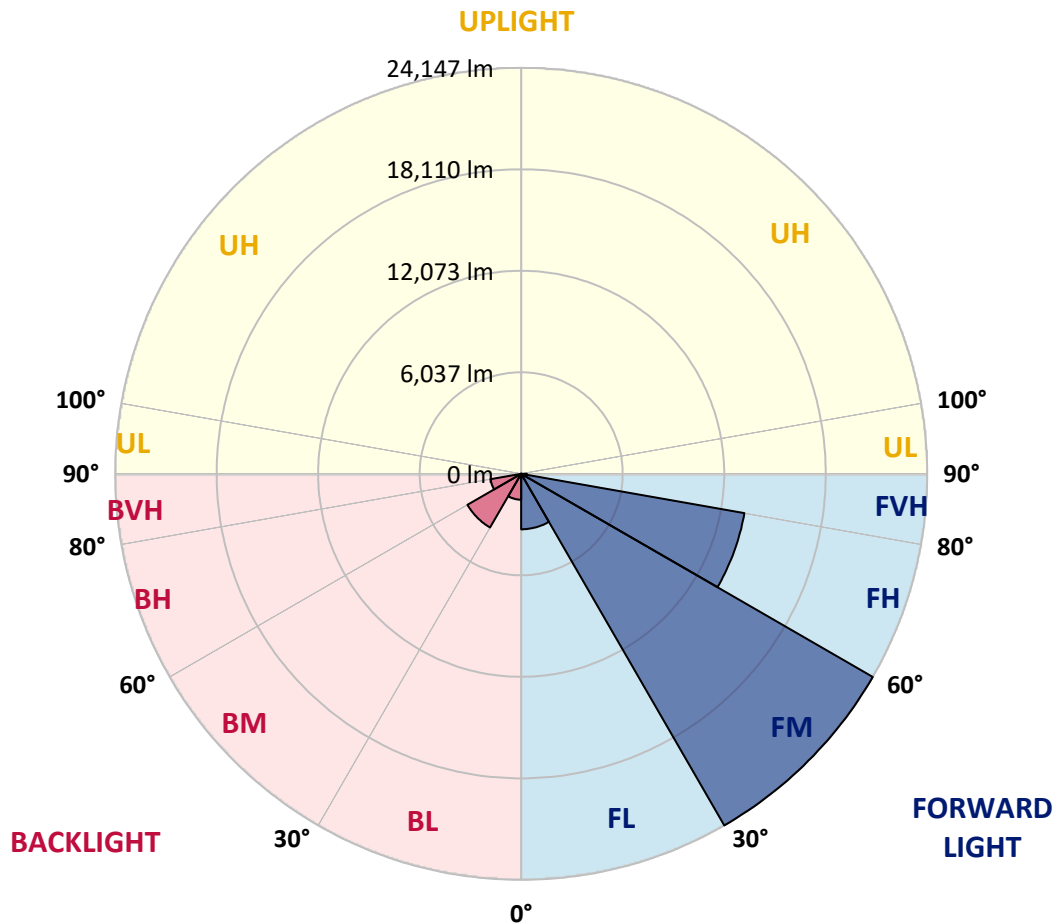
CATALOG NUMBER: GALN-SB9C-727-U-T2U-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3300.8	6.8			
FM	(30°-60°)	24146.8	49.9			
FH	(60°-80°)	13480.9	27.9			G5
FVH	(80°-90°)	317.9	0.7			G3/500
BL	(0°-30°)	1538.2	3.2	B3/2500		
BM	(30°-60°)	3688.4	7.6	B3/5000		
BH	(60°-80°)	1855.5	3.8	B3/2500		G3/2500
BVH	(80°-90°)	25.5	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type II Short



REPORT NUMBER: P957004

CATALOG NUMBER: GALN-SB9C-727-U-T2U-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°	85°
0°	5967.8	5967.8	5967.8	5967.8	5967.8	5967.8	5967.8	5967.8	5967.8	5967.8	5967.8
2.5°	6107.5	6090.9	6114.2	6104.2	6097.5	6084.2	6077.6	6070.9	6057.6	6047.6	6007.7
5°	6124.1	6114.2	6137.5	6157.4	6177.4	6197.3	6207.3	6220.6	6207.3	6180.7	6140.8
7.5°	5984.4	5977.8	6027.7	6087.6	6177.4	6253.9	6337.0	6383.6	6386.9	6377.0	6333.7
10°	5974.5	5957.8	6007.7	6080.9	6197.3	6333.7	6480.1	6579.9	6593.2	6636.4	6589.9
12.5°	6130.8	6114.2	6184.0	6263.9	6383.6	6526.7	6706.3	6846.0	6866.0	6925.8	6892.6
15°	6393.6	6370.3	6450.1	6553.3	6706.3	6869.3	7058.9	7185.3	7201.9	7275.1	7215.2
17.5°	6699.6	6676.3	6769.5	6879.3	7045.6	7268.5	7488.0	7627.7	7647.7	7694.3	7584.5
20°	7092.2	7062.2	7135.4	7235.2	7411.5	7677.6	7940.4	8140.0	8136.7	8136.7	7957.1
22.5°	7547.9	7501.3	7564.5	7644.4	7810.7	8133.4	8482.7	8718.8	8718.8	8625.7	8329.6
25°	8036.9	7990.3	8060.2	8133.4	8279.7	8645.7	9054.8	9347.6	9360.9	9201.2	8728.8
27.5°	8649.0	8589.1	8642.3	8728.8	8815.3	9187.9	9673.6	10012.9	10019.5	9773.3	9108.0
30°	9826.6	9656.9	9490.6	9397.5	9437.4	9806.6	10325.6	10701.5	10734.7	10395.4	9520.5
32.5°	11982.2	11948.9	11363.4	10598.3	10199.1	10471.9	11054.1	11506.5	11526.4	11090.7	10056.1
35°	15332.0	15292.1	14350.7	12893.6	11593.0	11363.4	11938.9	12474.5	12461.2	11968.9	10751.3
37.5°	19330.5	19293.9	18053.1	16103.7	13998.0	12710.7	13079.9	13642.1	13725.3	13079.9	11649.5
40°	22746.8	22610.4	21825.4	19945.9	17191.5	14946.1	14703.3	15075.8	15162.3	14397.2	12790.5
42.5°	25334.9	25218.4	24819.3	23645.0	21056.9	18252.7	16616.0	16759.1	16855.5	15937.4	14101.2
45°	26675.5	26648.8	26808.5	26698.7	24995.6	22311.0	19350.4	18755.0	18791.6	17643.9	15588.1
47.5°	26865.1	26851.8	27580.3	28611.5	28382.0	26888.4	22859.9	21243.2	21113.5	19570.0	17204.8
50°	25747.4	25720.7	27117.9	29050.6	30644.0	30733.8	26845.1	24047.5	23761.4	21562.6	18891.4
52.5°	22178.0	22171.3	24466.6	27683.4	31439.0	34100.3	30783.7	27127.9	26648.8	23671.6	20674.4
55°	17065.1	17188.2	19819.5	23621.7	29988.7	35720.3	34319.8	30547.5	29812.4	25793.9	22317.7
57.5°	12088.6	12268.2	14869.6	18256.0	25491.2	34762.3	36711.6	33973.9	33182.2	27909.6	23984.3
60°	6493.4	6653.1	9257.7	13299.5	18964.6	31189.6	37972.4	36947.8	36199.3	29918.8	25487.9
62.5°	3868.8	3922.0	4999.8	8585.8	12827.1	23827.9	37436.8	39213.2	38597.7	31605.4	26795.2
65°	2777.7	2787.6	3329.9	5242.6	7787.4	14477.1	33681.1	40297.6	40108.0	32876.1	27763.2
67.5°	2338.6	2331.9	2558.1	3482.9	5305.8	7251.8	25813.9	38764.1	39569.1	33681.1	28312.1
70°	2005.9	2015.9	2282.0	2551.4	3988.5	4104.9	12833.8	33751.0	35467.5	33894.0	28278.8
72.5°	1493.6	1526.9	1773.0	2325.2	3010.5	2824.2	4430.9	25025.5	28129.1	31934.7	26811.8
75°	1054.5	1071.1	1247.4	1956.0	2245.4	2055.8	2262.0	12936.9	16915.4	24483.3	21945.1
77.5°	811.7	841.6	944.7	1367.2	2212.1	1443.7	1383.8	4477.5	6879.3	14789.8	15045.9
80°	439.1	492.3	681.9	988.0	1553.5	1021.2	685.3	1783.0	2331.9	6915.9	5801.5
82.5°	226.2	252.8	475.7	711.9	884.9	891.5	339.3	741.8	961.4	2135.6	795.0
85°	89.8	109.8	319.3	392.5	455.7	439.1	153.0	299.4	346.0	592.1	242.8
87.5°	20.0	33.3	116.4	89.8	86.5	93.1	36.6	69.9	66.5	69.9	43.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P957004

CATALOG NUMBER: GALN-SB9C-727-U-T2U-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5967.8	5967.8	5967.8	5967.8	5967.8	5967.8	5967.8	5967.8	5967.8	5967.8	5967.8
2.5°	6004.4	5991.1	5954.5	5914.6	5868.0	5841.4	5824.8	5821.4	5798.1	5781.5	5798.1
5°	6104.2	6090.9	6021.0	5937.9	5848.0	5778.2	5711.7	5651.8	5565.3	5548.7	5542.0
7.5°	6303.8	6267.2	6154.1	6041.0	5871.3	5668.4	5422.2	5139.5	4886.7	4810.2	4773.6
10°	6549.9	6500.0	6357.0	6157.4	5781.5	5229.3	4633.9	4081.7	3642.6	3519.5	3472.9
12.5°	6829.4	6786.1	6596.5	6227.3	5405.6	4404.3	3492.9	2807.6	2381.8	2275.3	2245.4
15°	7162.0	7098.8	6836.0	6120.8	4733.7	3346.5	2398.4	1992.6	1839.6	1819.6	1799.7
17.5°	7514.6	7411.5	7048.9	5738.3	3828.8	2378.5	1852.9	1736.4	1669.9	1650.0	1640.0
20°	7837.3	7704.2	7175.3	5159.5	2860.8	1852.9	1659.9	1583.4	1523.6	1500.3	1487.0
22.5°	8160.0	7970.4	7175.3	4371.1	2145.6	1643.3	1523.6	1453.7	1383.8	1353.9	1337.3
25°	8496.0	8243.1	7048.9	3492.9	1726.5	1506.9	1393.8	1317.3	1257.4	1220.8	1207.5
27.5°	8822.0	8472.7	6759.5	2661.2	1536.9	1387.2	1274.1	1200.9	1144.3	1117.7	1117.7
30°	9131.3	8698.9	6353.7	2019.2	1413.8	1270.7	1164.3	1101.1	1044.5	1017.9	1021.2
32.5°	9550.5	8985.0	5921.2	1656.6	1307.3	1161.0	1064.5	1004.6	954.7	934.8	934.8
35°	10132.6	9407.4	5548.7	1626.7	1217.5	1071.1	974.7	918.1	868.2	851.6	851.6
37.5°	10957.6	10089.4	5352.4	1826.3	1144.3	991.3	901.5	841.6	795.0	781.7	778.4
40°	11975.5	11014.1	5458.8	2025.9	1094.4	921.4	835.0	775.1	735.2	718.5	715.2
42.5°	13183.0	12155.1	6047.6	2178.9	1061.2	861.6	771.8	705.2	678.6	672.0	672.0
45°	14570.2	13409.2	6949.1	2341.9	1007.9	805.0	708.6	658.7	638.7	635.4	632.0
47.5°	16147.0	14786.4	7993.7	2544.8	954.7	751.8	658.7	625.4	608.8	602.1	602.1
50°	17710.5	16173.6	9068.1	2657.9	911.5	701.9	618.7	592.1	578.8	575.5	575.5
52.5°	19347.1	17600.7	9936.3	2551.4	874.9	662.0	585.5	565.5	552.2	548.9	548.9
55°	20907.2	18755.0	10086.0	2165.6	801.7	622.1	548.9	538.9	522.3	522.3	518.9
57.5°	22251.2	19333.8	9028.2	1590.1	728.5	562.2	512.3	502.3	489.0	485.7	482.3
60°	23485.3	19167.5	6969.1	1071.1	648.7	502.3	465.7	459.1	445.8	429.1	425.8
62.5°	24180.6	18435.6	4766.9	698.6	568.8	439.1	412.5	409.2	379.2	346.0	339.3
65°	24443.4	16932.0	2973.9	509.0	475.7	375.9	355.9	349.3	306.0	269.4	266.1
67.5°	24213.8	14457.1	1500.3	402.5	375.9	312.7	292.7	292.7	262.8	229.5	226.2
70°	23295.7	10837.8	632.0	322.7	289.4	239.5	239.5	252.8	222.9	186.3	183.0
72.5°	21303.1	7291.8	336.0	246.2	216.2	169.7	196.3	206.2	176.3	139.7	139.7
75°	16935.4	4447.6	232.9	183.0	136.4	119.8	149.7	156.3	119.8	93.1	89.8
77.5°	11583.0	2554.8	156.3	116.4	86.5	69.9	103.1	96.5	63.2	43.2	46.6
80°	5086.3	1064.5	89.8	53.2	33.3	26.6	36.6	26.6	20.0	13.3	13.3
82.5°	595.4	249.5	33.3	20.0	13.3	6.7	3.3	0.0	0.0	0.0	0.0
85°	123.1	29.9	16.6	6.7	3.3	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	23.3	6.7	3.3	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)