

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: P954148

Luminaire Tested: **GALN-SB7C-727-U-T2U-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P954148
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-SB7C-727-U-T2U-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 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: 37754 lumens
Efficiency: N/A
Efficacy: 107.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

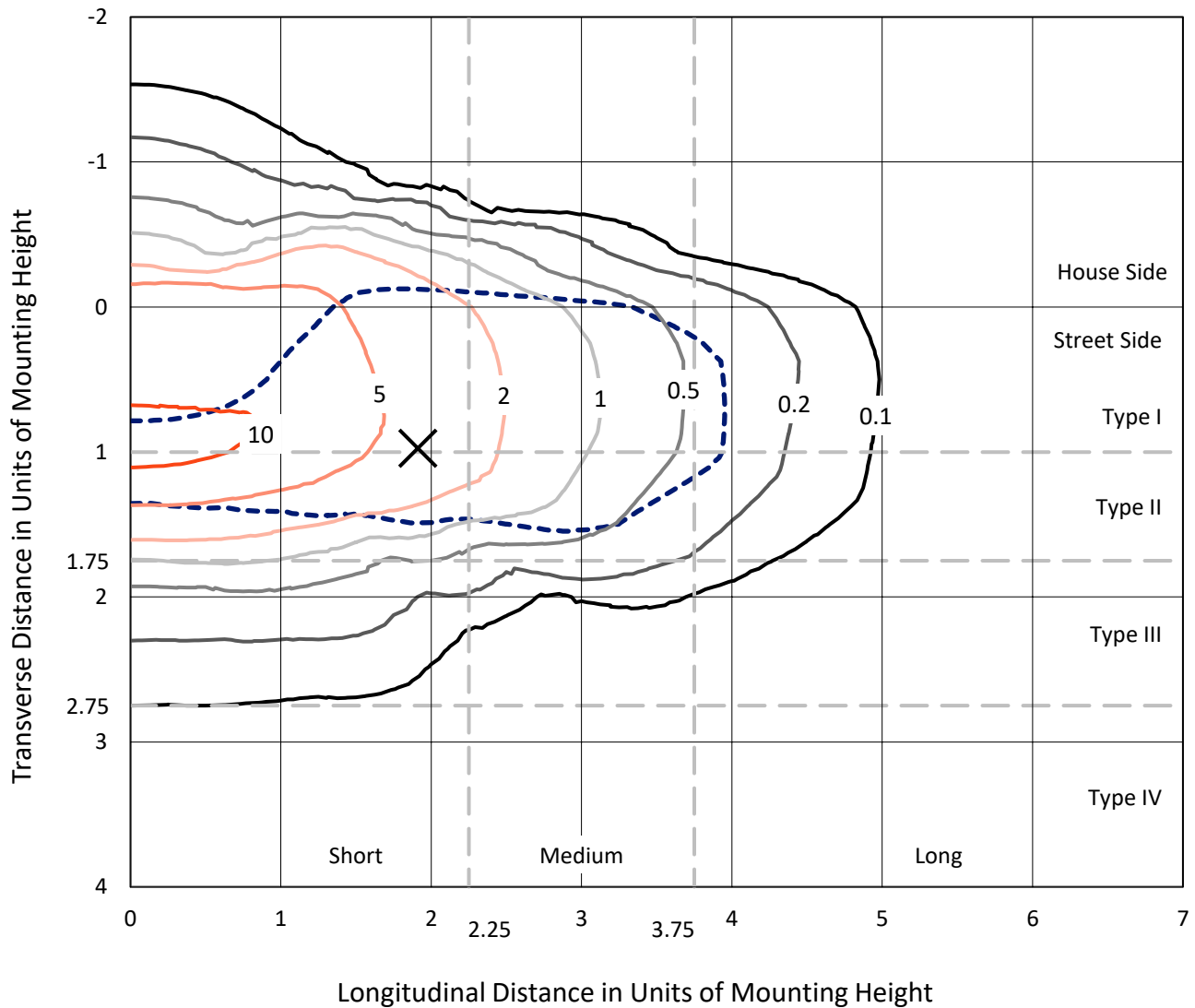
Input Watts (W): 350.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

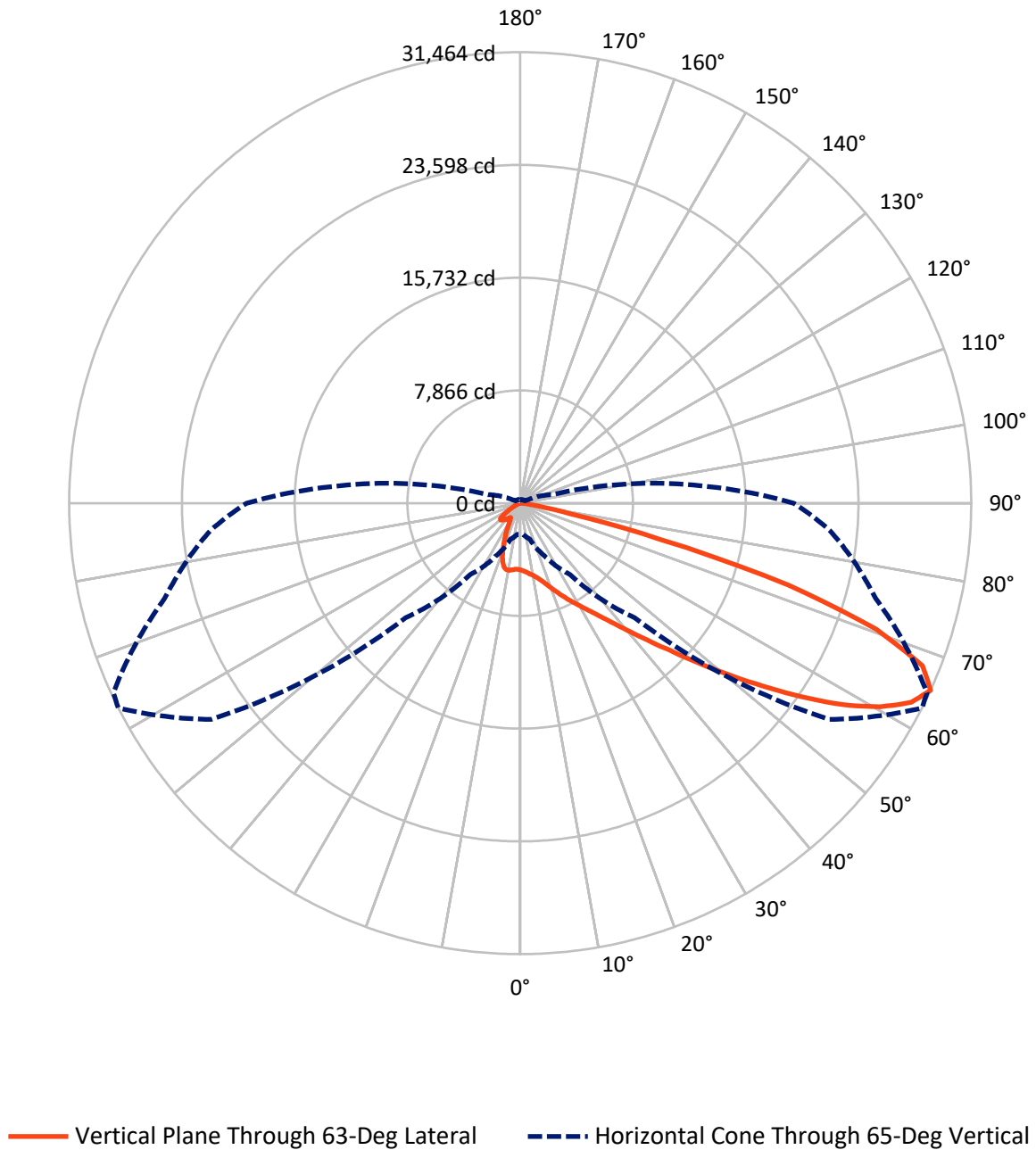
✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.8 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5549.5	0.0	5549.5
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	32204.5	0.0	32204.5
	% Fixture	85.3	0.0	85.3
Total	Lumens	37754.0	0.0	37754.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	439.0	1.2
10°-20°	1218.1	3.2
20°-30°	2121.0	5.6
30°-40°	3823.0	10.1
40°-50°	7582.2	20.1
50°-60°	10328.2	27.4
60°-70°	8243.9	21.8
70°-80°	3730.5	9.9
80°-90°	268.1	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°	37754.0	100.0
0°-180°	37754.0	100.0

Coefficient of Utilization



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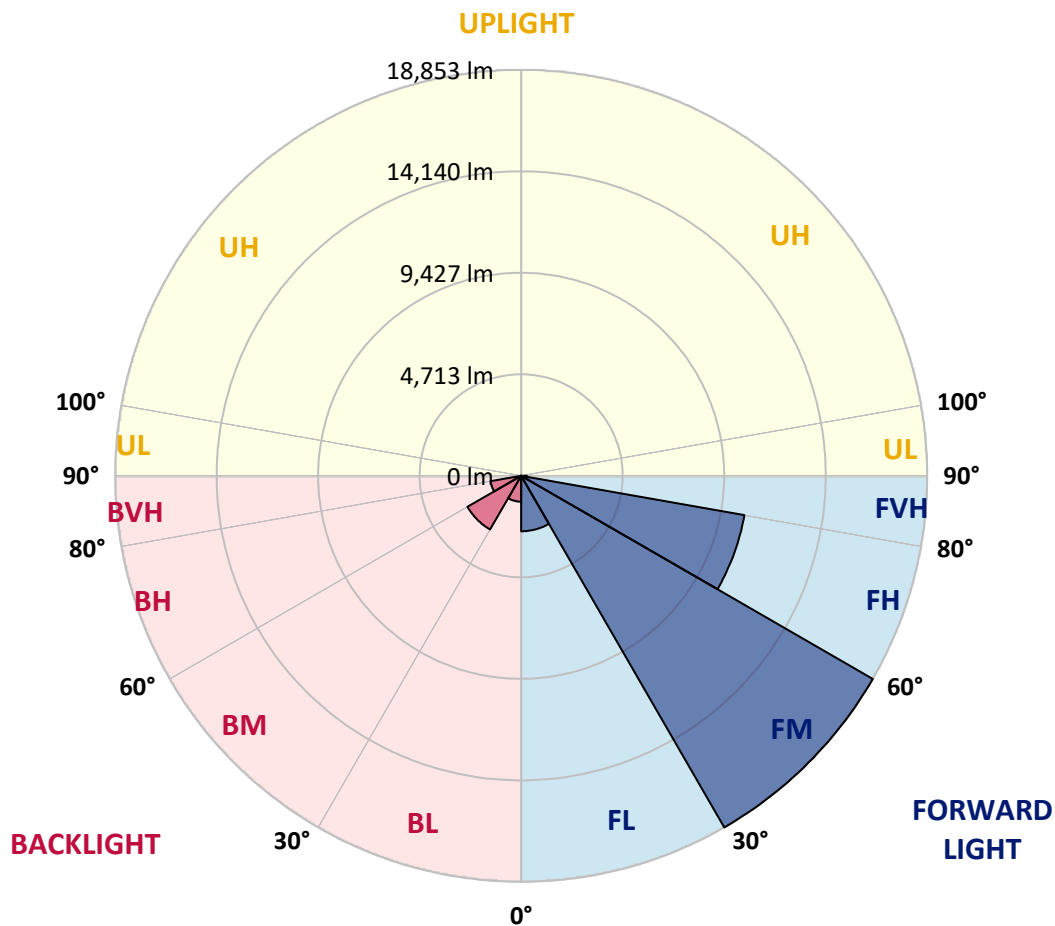
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2577.2	6.8			
FM	(30°-60°)	18853.4	49.9			
FH	(60°-80°)	10525.6	27.9			G4/12000
FVH	(80°-90°)	248.2	0.7			G3/500
BL	(0°-30°)	1201.0	3.2	B3/2500		
BM	(30°-60°)	2879.9	7.6	B3/5000		
BH	(60°-80°)	1448.8	3.8	B3/2500		G3/2500
BVH	(80°-90°)	19.9	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-G4

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°	85°
0°	4659.6	4659.6	4659.6	4659.6	4659.6	4659.6	4659.6	4659.6	4659.6	4659.6	4659.6
2.5°	4768.6	4755.7	4773.8	4766.0	4760.9	4750.5	4745.3	4740.1	4729.7	4721.9	4690.7
5°	4781.6	4773.8	4792.0	4807.6	4823.2	4838.8	4846.6	4857.0	4846.6	4825.8	4794.6
7.5°	4672.5	4667.3	4706.3	4753.1	4823.2	4882.9	4947.9	4984.2	4986.8	4979.0	4945.3
10°	4664.8	4651.8	4690.7	4747.9	4838.8	4945.3	5059.5	5137.5	5147.8	5181.6	5145.3
12.5°	4786.8	4773.8	4828.4	4890.7	4984.2	5095.9	5236.2	5345.2	5360.8	5407.6	5381.6
15°	4992.0	4973.8	5036.2	5116.7	5236.2	5363.4	5511.5	5610.2	5623.2	5680.3	5633.5
17.5°	5231.0	5212.8	5285.5	5371.2	5501.1	5675.1	5846.5	5955.6	5971.2	6007.6	5921.8
20°	5537.4	5514.1	5571.2	5649.1	5786.8	5994.6	6199.8	6355.6	6353.0	6353.0	6212.7
22.5°	5893.3	5856.9	5906.3	5968.6	6098.5	6350.4	6623.1	6807.5	6807.5	6734.8	6503.6
25°	6275.1	6238.7	6293.3	6350.4	6464.7	6750.4	7069.9	7298.4	7308.8	7184.1	6815.3
27.5°	6753.0	6706.2	6747.8	6815.3	6882.8	7173.7	7552.9	7817.9	7823.1	7630.9	7111.4
30°	7672.4	7540.0	7410.1	7337.4	7368.5	7656.8	8062.0	8355.5	8381.5	8116.6	7433.5
32.5°	9355.5	9329.5	8872.4	8275.0	7963.3	8176.3	8630.8	8984.1	8999.6	8659.4	7851.6
35°	11971.0	11939.8	11204.8	10067.1	9051.6	8872.4	9321.7	9739.9	9729.5	9345.1	8394.5
37.5°	15092.9	15064.3	14095.5	12573.5	10929.4	9924.3	10212.6	10651.5	10716.5	10212.6	9095.7
40°	17760.3	17653.9	17040.9	15573.4	13422.8	11669.7	11480.1	11771.0	11838.5	11241.1	9986.6
42.5°	19781.0	19690.1	19378.5	18461.6	16440.9	14251.4	12973.5	13085.2	13160.5	12443.7	11010.0
45°	20827.8	20807.0	20931.6	20845.9	19516.1	17420.1	15108.5	14643.6	14672.2	13776.1	12170.9
47.5°	20975.8	20965.4	21534.2	22339.4	22160.2	20994.0	17848.6	16586.4	16485.1	15279.9	13433.2
50°	20103.1	20082.3	21173.2	22682.2	23926.3	23996.5	20960.2	18775.9	18552.5	16835.7	14750.1
52.5°	17316.2	17311.0	19103.1	21614.7	24547.1	26624.9	24035.4	21181.0	20807.0	18482.4	16142.2
55°	13324.2	13420.3	15474.7	18443.4	23414.7	27889.8	26796.3	23851.0	23277.0	20139.5	17425.3
57.5°	9438.6	9578.8	11609.9	14254.0	19903.1	27141.8	28663.8	26526.2	25908.1	21791.4	18726.5
60°	5069.9	5194.6	7228.3	10384.0	14807.2	24352.3	29648.2	28848.2	28263.8	23360.1	19900.5
62.5°	3020.7	3062.2	3903.7	6703.6	10015.2	18604.5	29230.0	30617.0	30136.5	24677.0	20921.3
65°	2168.7	2176.5	2599.9	4093.3	6080.3	11303.5	26297.7	31463.7	31315.7	25669.1	21677.1
67.5°	1825.9	1820.7	1997.3	2719.4	4142.7	5662.1	20155.1	30266.3	30894.9	26297.7	22105.6
70°	1566.2	1574.0	1781.7	1992.1	3114.2	3205.1	10020.4	26352.2	27692.4	26463.9	22079.7
72.5°	1166.2	1192.2	1384.4	1815.5	2350.6	2205.1	3459.6	19539.5	21962.8	24934.1	20934.2
75°	823.3	836.3	974.0	1527.2	1753.2	1605.1	1766.2	10100.9	13207.3	19116.1	17134.4
77.5°	633.7	657.1	737.6	1067.5	1727.2	1127.2	1080.5	3496.0	5371.2	11547.6	11747.6
80°	342.8	384.4	532.4	771.4	1212.9	797.4	535.0	1392.2	1820.7	5399.8	4529.7
82.5°	176.6	197.4	371.4	555.8	690.9	696.1	264.9	579.2	750.6	1667.5	620.8
85°	70.1	85.7	249.3	306.5	355.8	342.8	119.5	233.8	270.1	462.3	189.6
87.5°	15.6	26.0	90.9	70.1	67.5	72.7	28.6	54.5	51.9	54.5	33.8
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°	4659.6	4659.6	4659.6	4659.6	4659.6	4659.6	4659.6	4659.6	4659.6	4659.6	4659.6
2.5°	4688.1	4677.7	4649.2	4618.0	4581.6	4560.9	4547.9	4545.3	4527.1	4514.1	4527.1
5°	4766.0	4755.7	4701.1	4636.2	4566.1	4511.5	4459.6	4412.8	4345.3	4332.3	4327.1
7.5°	4921.9	4893.3	4805.0	4716.7	4584.2	4425.8	4233.6	4012.8	3815.4	3755.7	3727.1
10°	5114.1	5075.1	4963.4	4807.6	4514.1	4083.0	3618.0	3186.9	2844.0	2747.9	2711.6
12.5°	5332.3	5298.5	5150.4	4862.1	4220.6	3438.8	2727.2	2192.1	1859.7	1776.6	1753.2
15°	5592.0	5542.6	5337.5	4779.0	3696.0	2612.9	1872.7	1555.8	1436.3	1420.7	1405.1
17.5°	5867.3	5786.8	5503.7	4480.3	2989.5	1857.1	1446.7	1355.8	1303.8	1288.3	1280.5
20°	6119.2	6015.3	5602.4	4028.4	2233.7	1446.7	1296.1	1236.3	1189.6	1171.4	1161.0
22.5°	6371.2	6223.1	5602.4	3412.9	1675.3	1283.1	1189.6	1135.0	1080.5	1057.1	1044.1
25°	6633.5	6436.1	5503.7	2727.2	1348.0	1176.6	1088.3	1028.5	981.8	953.2	942.8
27.5°	6888.0	6615.3	5277.7	2077.8	1200.0	1083.1	994.8	937.6	893.5	872.7	872.7
30°	7129.6	6791.9	4960.8	1576.6	1103.9	992.2	909.1	859.7	815.6	794.8	797.4
32.5°	7456.8	7015.3	4623.2	1293.5	1020.7	906.5	831.1	784.4	745.4	729.8	729.8
35°	7911.4	7345.2	4332.3	1270.1	950.6	836.3	761.0	716.9	677.9	664.9	664.9
37.5°	8555.5	7877.6	4179.1	1425.9	893.5	774.0	703.9	657.1	620.8	610.4	607.8
40°	9350.3	8599.7	4262.2	1581.8	854.5	719.5	651.9	605.2	574.0	561.0	558.4
42.5°	10293.1	9490.5	4721.9	1701.2	828.5	672.7	602.6	550.6	529.8	524.7	524.7
45°	11376.2	10469.7	5425.8	1828.5	787.0	628.5	553.2	514.3	498.7	496.1	493.5
47.5°	12607.3	11545.0	6241.3	1986.9	745.4	587.0	514.3	488.3	475.3	470.1	470.1
50°	13828.0	12628.1	7080.2	2075.2	711.7	548.0	483.1	462.3	451.9	449.3	449.3
52.5°	15105.9	13742.3	7758.1	1992.1	683.1	516.9	457.1	441.5	431.2	428.6	428.6
55°	16324.0	14643.6	7875.0	1690.8	625.9	485.7	428.6	420.8	407.8	407.8	405.2
57.5°	17373.3	15095.5	7049.1	1241.5	568.8	438.9	400.0	392.2	381.8	379.2	376.6
60°	18336.9	14965.6	5441.3	836.3	506.5	392.2	363.6	358.4	348.0	335.1	332.5
62.5°	18879.8	14394.2	3721.9	545.4	444.1	342.8	322.1	319.5	296.1	270.1	264.9
65°	19085.0	13220.3	2322.0	397.4	371.4	293.5	277.9	272.7	239.0	210.4	207.8
67.5°	18905.7	11287.9	1171.4	314.3	293.5	244.1	228.6	228.6	205.2	179.2	176.6
70°	18188.9	8462.0	493.5	251.9	226.0	187.0	187.0	197.4	174.0	145.4	142.9
72.5°	16633.1	5693.3	262.3	192.2	168.8	132.5	153.2	161.0	137.7	109.1	109.1
75°	13222.9	3472.6	181.8	142.9	106.5	93.5	116.9	122.1	93.5	72.7	70.1
77.5°	9043.8	1994.7	122.1	90.9	67.5	54.5	80.5	75.3	49.3	33.8	36.4
80°	3971.3	831.1	70.1	41.6	26.0	20.8	28.6	20.8	15.6	10.4	10.4
82.5°	464.9	194.8	26.0	15.6	10.4	5.2	2.6	0.0	0.0	0.0	0.0
85°	96.1	23.4	13.0	5.2	2.6	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	18.2	5.2	2.6	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)