

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: P943148

Luminaire Tested: **GALN-SB7C-727-U-T4FT-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943148
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-SB7C-727-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 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: 37403 lumens
Efficiency: N/A
Efficacy: 106.7 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

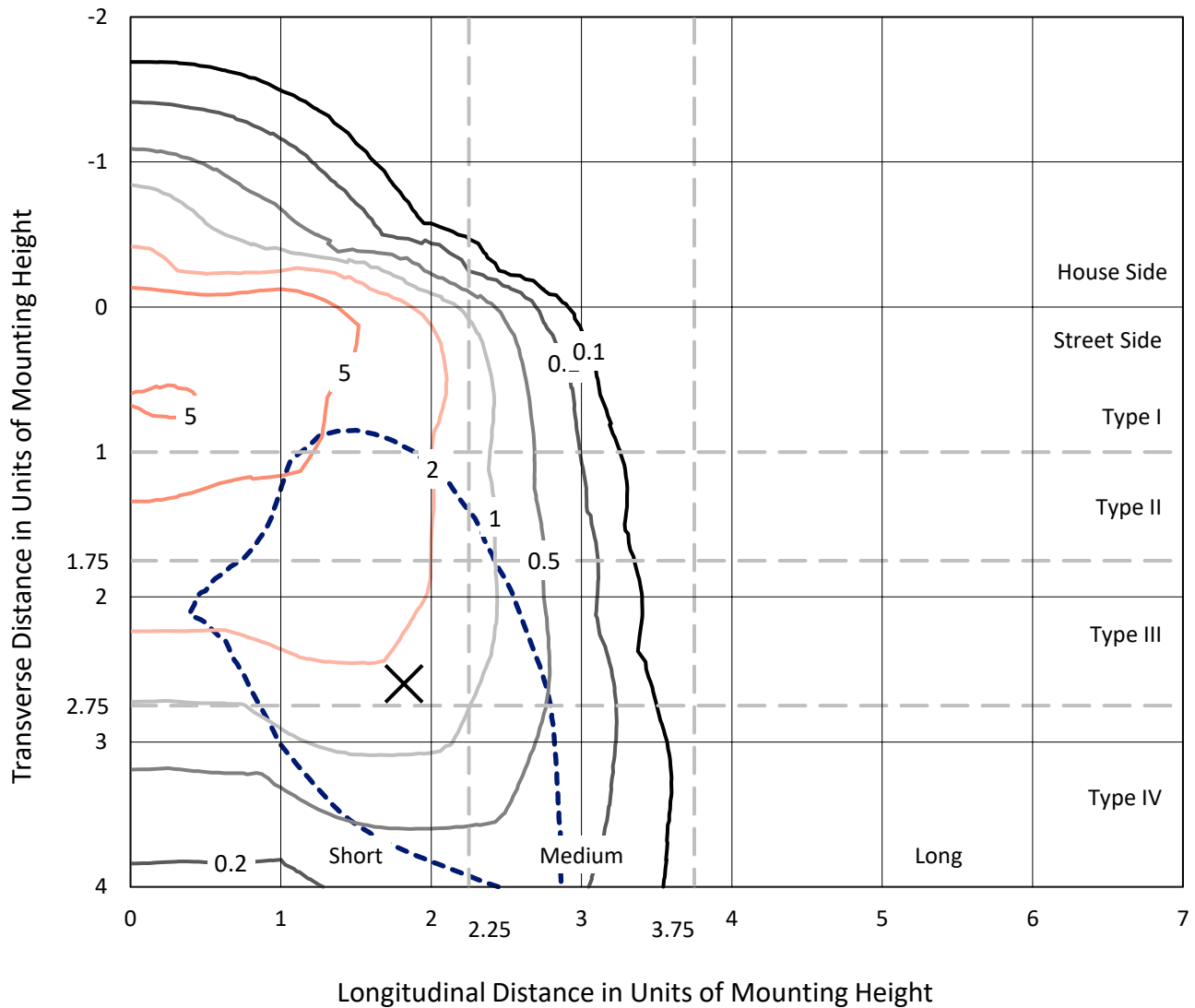
Input Watts (W): 350.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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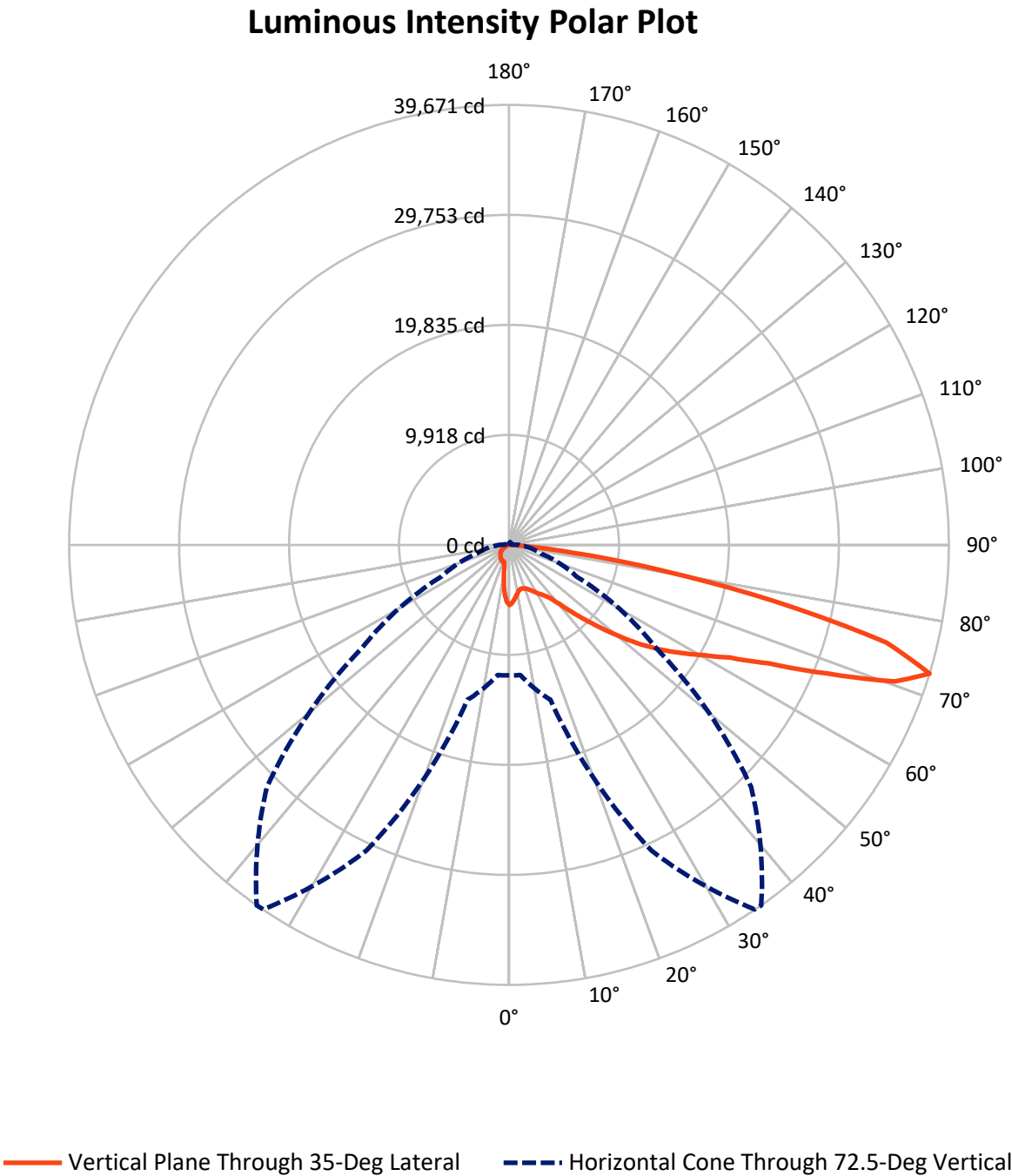
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.7 fc
 Type IV - Short - N/A

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4209.5	0.0	4209.5
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	33193.5	0.0	33193.5
	% Fixture	88.7	0.0	88.7
Total	Lumens	37403.0	0.0	37403.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	445.5	1.2
10°-20°	1042.1	2.8
20°-30°	1692.9	4.5
30°-40°	2824.5	7.6
40°-50°	5344.1	14.3
50°-60°	8491.7	22.7
60°-70°	10504.8	28.1
70°-80°	6529.8	17.5
80°-90°	527.7	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°	37403.0	100.0
0°-180°	37403.0	100.0

Coefficient of Utilization



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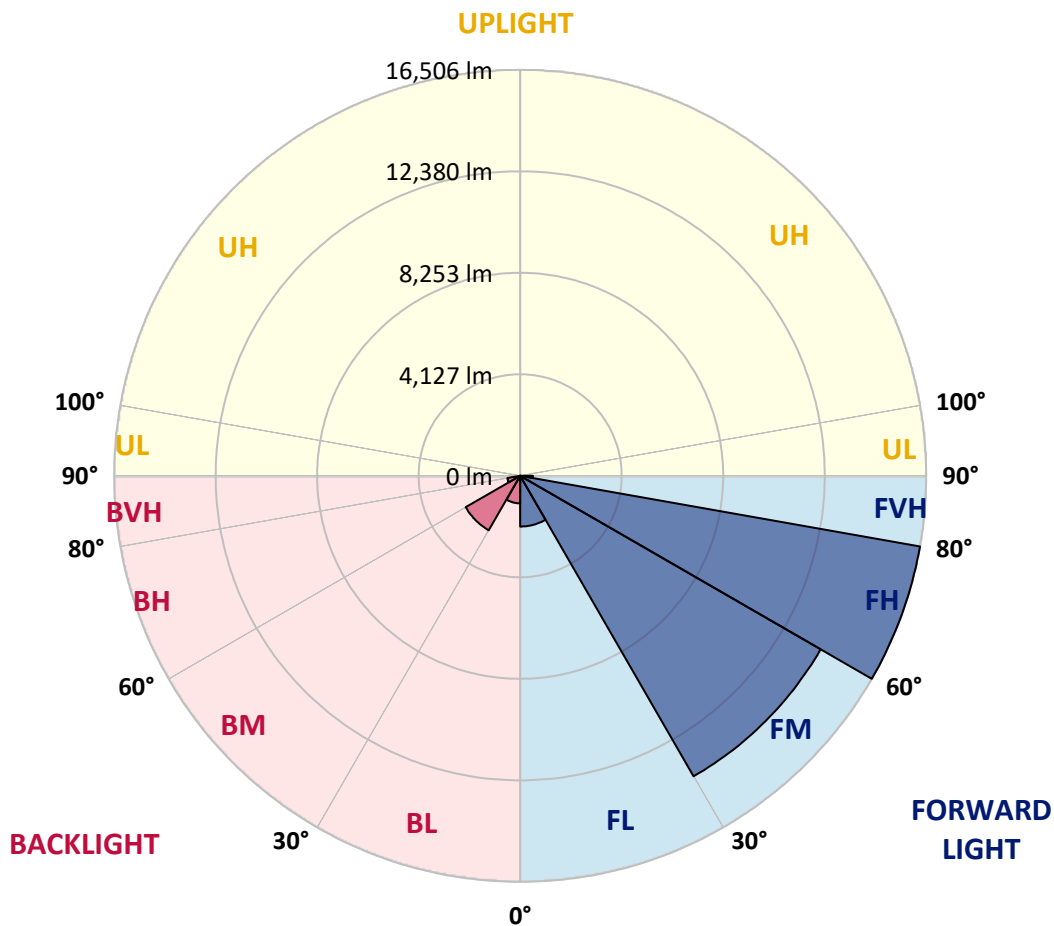
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2061.9	5.5			
FM	(30°-60°)	14104.7	37.7			
FH	(60°-80°)	16506.4	44.1			G5
FVH	(80°-90°)	520.5	1.4			G4/750
BL	(0°-30°)	1118.6	3.0	B3/2500		
BM	(30°-60°)	2555.6	6.8	B3/5000		
BH	(60°-80°)	528.2	1.4	B2/1000		G2/1000
BVH	(80°-90°)	7.2	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°	5420.9	5420.9	5420.9	5420.9	5420.9	5420.9	5420.9	5420.9	5420.9	5420.9	5420.9
2.5°	5179.8	5223.6	5231.8	5245.5	5245.5	5262.0	5289.4	5327.8	5390.8	5423.7	5445.6
5°	4774.2	4807.0	4848.2	4881.0	4944.1	4952.3	5059.2	5163.3	5308.6	5418.2	5494.9
7.5°	4365.8	4404.2	4459.0	4538.5	4620.7	4645.4	4807.0	4982.4	5212.7	5418.2	5547.0
10°	4078.0	4080.8	4130.1	4209.6	4341.1	4371.3	4568.6	4818.0	5105.8	5385.3	5596.3
12.5°	3916.3	3935.5	3957.5	4017.8	4143.8	4163.0	4374.0	4667.3	4998.9	5366.1	5653.9
15°	3916.3	3930.1	3943.8	3973.9	4075.3	4091.7	4278.1	4571.4	4944.1	5374.4	5747.1
17.5°	3957.5	3979.4	3968.4	4004.0	4110.9	4121.9	4286.3	4543.9	4941.3	5426.4	5889.6
20°	4056.1	4072.6	4050.6	4072.6	4179.4	4201.4	4371.3	4596.0	4987.9	5516.9	6067.7
22.5°	4212.3	4220.6	4168.5	4184.9	4294.6	4322.0	4519.3	4744.0	5100.3	5662.1	6306.2
25°	4409.7	4426.1	4346.6	4365.8	4470.0	4502.8	4730.3	4966.0	5278.4	5862.2	6610.4
27.5°	4637.1	4645.4	4576.8	4574.1	4708.4	4755.0	4985.2	5240.1	5516.9	6114.3	6994.1
30°	4897.5	4922.2	4856.4	4845.4	5015.3	5053.7	5281.2	5577.2	5867.7	6492.5	7539.4
32.5°	5103.0	5122.2	5083.9	5111.3	5283.9	5314.1	5640.2	6054.0	6418.5	7029.7	8282.2
35°	5399.0	5410.0	5322.3	5371.6	5568.9	5645.7	6130.8	6722.7	7111.9	7703.9	9252.3
37.5°	6470.6	6470.6	6097.9	5854.0	6043.1	6111.6	6802.2	7564.1	7967.0	8608.3	10474.7
40°	7953.3	7928.6	7383.2	6884.4	6859.8	6994.1	7758.7	8624.7	9071.5	9693.6	11850.4
42.5°	9534.6	9496.3	8753.5	8260.2	8178.0	8224.6	8863.2	9932.0	10387.0	11017.3	13330.4
45°	10937.8	10926.9	10247.2	9584.0	9436.0	9584.0	10241.7	11461.3	11787.4	12450.6	14807.6
47.5°	12113.5	12113.5	11617.5	11184.5	11107.7	11195.4	12108.1	13157.7	13127.6	13977.2	16246.4
50°	13467.4	13456.5	12985.1	12798.7	12878.2	13001.5	14256.7	14944.6	14514.3	15476.3	17531.8
52.5°	14415.7	14481.4	14319.7	14289.6	14695.2	14909.0	16438.2	16693.1	15755.8	16898.7	18493.7
55°	15166.6	15243.3	15429.7	15640.7	16421.8	16701.3	18551.3	18351.2	16794.5	18131.9	19047.3
57.5°	16230.0	16120.3	16408.1	16824.7	18088.1	18425.2	20598.5	19916.1	17630.4	19132.3	19107.6
60°	17520.8	17537.2	17586.6	18112.8	19751.7	20184.7	22615.6	21396.0	18167.6	19746.2	18438.9
62.5°	19072.0	19096.6	19198.1	20006.5	21985.3	22393.6	24764.3	22607.4	18414.2	19573.5	16712.3
65°	18965.1	19069.2	20201.1	22966.4	25380.9	25783.8	27271.9	23457.0	18041.5	17994.9	13607.2
67.5°	17276.9	17446.8	19340.6	26501.8	30500.4	30949.8	30303.0	23624.2	16432.8	13993.6	8876.9
70°	15062.5	15122.7	17400.2	29680.9	36428.3	36883.3	33016.3	21785.2	12469.8	7805.3	3976.6
72.5°	11762.7	11776.4	14448.6	30418.2	39645.8	39670.5	30886.8	16172.4	6706.3	2998.2	1381.3
75°	8402.7	8320.5	9677.1	24668.3	34879.9	35159.4	23155.5	7586.0	2562.5	1416.9	687.9
77.5°	4505.6	4596.0	5475.8	14629.4	24095.5	24572.4	12634.3	2187.0	1304.5	964.7	454.9
80°	1392.2	1469.0	2244.6	6698.1	13648.3	13936.1	4683.7	972.9	909.9	687.9	298.7
82.5°	438.5	454.9	1046.9	2814.6	5664.9	5796.4	1356.6	550.9	622.1	454.9	175.4
85°	126.1	128.8	465.9	1049.7	1400.5	1427.9	380.9	213.8	356.3	282.3	90.4
87.5°	13.7	43.8	175.4	175.4	123.3	120.6	41.1	46.6	101.4	35.6	16.4
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°	5420.9	5420.9	5420.9	5420.9	5420.9	5420.9	5420.9	5420.9	5420.9	5420.9	5420.9
2.5°	5431.9	5434.7	5399.0	5338.7	5273.0	5218.1	5149.6	5094.8	5056.4	5045.5	5064.7
5°	5470.3	5451.1	5349.7	5166.1	4946.8	4757.7	4546.7	4379.5	4269.9	4223.3	4239.7
7.5°	5527.8	5473.0	5251.0	4889.3	4470.0	4097.2	3719.0	3425.8	3239.4	3146.2	3159.9
10°	5577.2	5467.5	5086.6	4489.1	3847.8	3283.3	2773.5	2420.0	2222.6	2129.5	2132.2
12.5°	5623.8	5464.8	4872.8	4015.0	3146.2	2455.6	1981.5	1806.1	1751.3	1732.1	1726.6
15°	5711.5	5473.0	4604.2	3472.4	2447.4	1855.4	1682.7	1680.0	1691.0	1685.5	1682.7
17.5°	5832.0	5481.2	4300.0	2896.8	1888.3	1636.2	1627.9	1652.6	1669.0	1660.8	1658.1
20°	5988.3	5514.1	3976.6	2326.8	1622.4	1581.3	1600.5	1622.4	1636.2	1622.4	1619.7
22.5°	6207.5	5571.7	3623.1	1869.1	1537.5	1548.5	1564.9	1589.6	1603.3	1584.1	1581.3
25°	6476.1	5662.1	3275.0	1625.2	1496.4	1510.1	1534.7	1562.2	1578.6	1559.4	1556.7
27.5°	6824.1	5807.4	2954.4	1570.4	1455.3	1463.5	1499.1	1540.2	1562.2	1537.5	1537.5
30°	7328.4	6045.8	2677.6	1595.0	1430.6	1411.4	1460.8	1518.3	1543.0	1521.0	1518.3
32.5°	7997.1	6382.9	2507.7	1633.4	1419.6	1351.1	1397.7	1471.7	1512.8	1499.1	1499.1
35°	8874.1	6895.4	2441.9	1677.3	1411.4	1288.1	1321.0	1400.5	1471.7	1485.4	1485.4
37.5°	9937.5	7608.0	2461.1	1696.4	1386.8	1236.0	1252.5	1321.0	1414.2	1458.0	1469.0
40°	11146.1	8438.4	2570.7	1677.3	1359.3	1192.2	1194.9	1247.0	1329.2	1395.0	1416.9
42.5°	12393.1	9408.6	2773.5	1606.0	1334.7	1153.8	1145.6	1181.2	1236.0	1282.6	1301.8
45°	13579.8	10406.1	2973.6	1507.3	1304.5	1115.4	1096.2	1110.0	1120.9	1140.1	1151.1
47.5°	14615.7	11107.7	2916.0	1416.9	1263.4	1071.6	1038.7	1033.2	1000.3	997.6	994.8
50°	15331.0	11261.2	2589.9	1326.5	1203.1	1022.3	970.2	937.3	879.7	852.3	855.1
52.5°	15558.5	10655.5	2115.8	1236.0	1104.5	956.5	882.5	830.4	759.2	734.5	731.7
55°	15257.0	9468.8	1691.0	1126.4	967.4	868.8	786.6	718.0	660.5	630.3	630.3
57.5°	14519.8	7958.8	1337.4	997.6	822.2	770.1	687.9	619.4	570.0	539.9	534.4
60°	13297.5	6319.9	1057.9	844.1	701.6	663.2	578.3	534.4	490.6	454.9	446.7
62.5°	11442.1	4511.1	830.4	668.7	586.5	542.6	493.3	460.4	408.4	359.0	350.8
65°	8928.9	2759.8	641.3	490.6	471.4	449.5	419.3	389.2	326.1	276.8	268.6
67.5°	5632.0	1307.3	457.7	370.0	372.7	361.8	348.1	323.4	276.8	233.0	227.5
70°	2480.3	633.1	301.5	282.3	276.8	276.8	287.8	279.5	235.7	194.6	186.4
72.5°	844.1	339.8	224.7	213.8	200.1	197.3	241.2	233.0	189.1	150.7	142.5
75°	441.2	227.5	164.4	153.5	120.6	145.3	191.8	180.9	134.3	98.7	90.4
77.5°	287.8	161.7	112.4	98.7	68.5	95.9	142.5	126.1	79.5	49.3	43.8
80°	180.9	106.9	65.8	46.6	32.9	52.1	76.7	54.8	30.1	11.0	8.2
82.5°	95.9	54.8	24.7	16.4	13.7	16.4	19.2	13.7	5.5	0.0	0.0
85°	38.4	19.2	8.2	5.5	2.7	0.0	5.5	2.7	0.0	0.0	0.0
87.5°	13.7	2.7	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)