

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: P456925

Luminaire Tested: **GALN-SA8B-727-U-SL2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456925
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-14)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA8B-727-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38357 lumens
Efficiency: N/A
Efficacy: 118.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G5

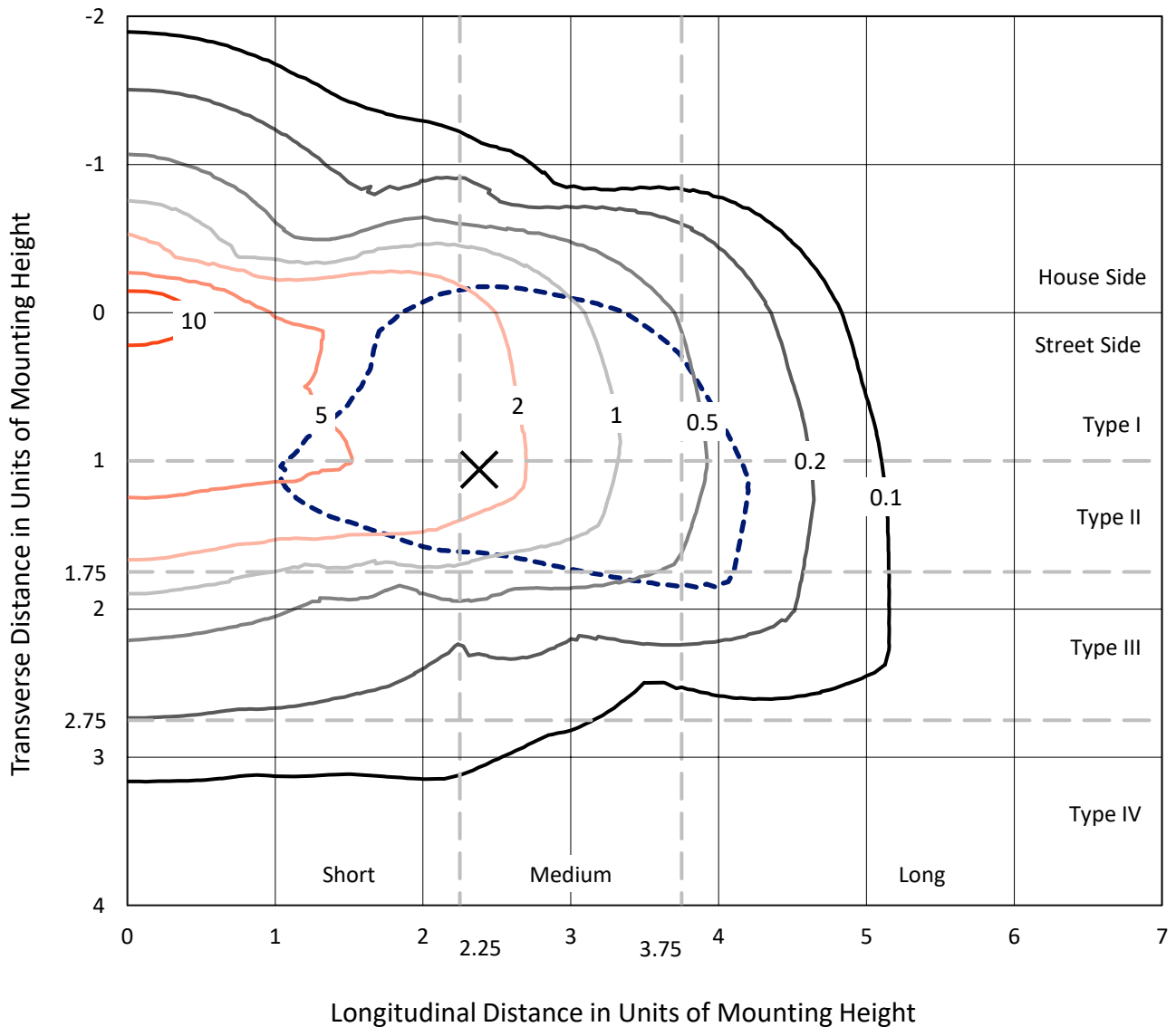
Input Watts (W): 325
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

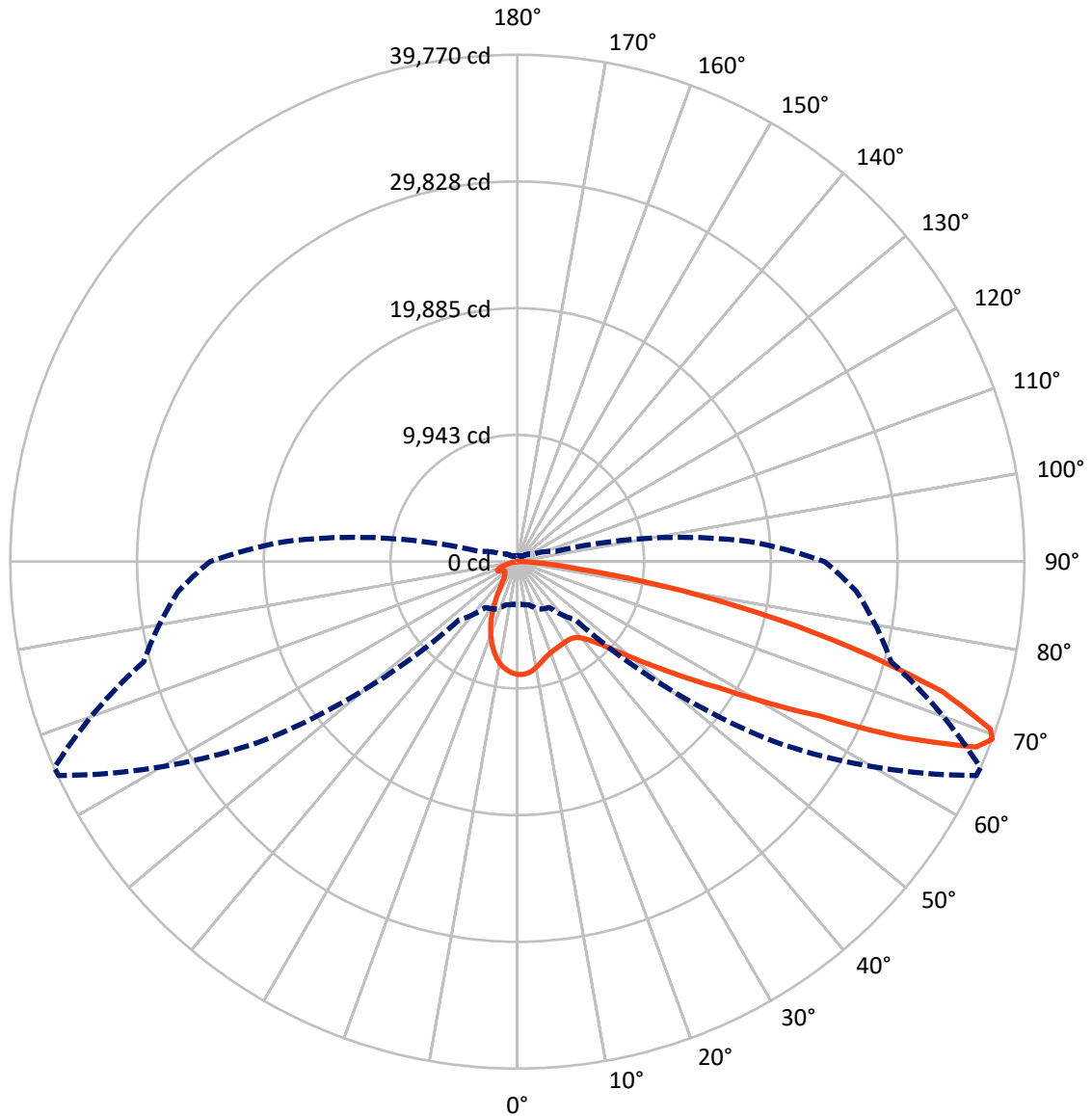
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.2 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7213.5	0.0	7213.5
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	31143.5	0.0	31143.5
	% Fixture	81.2	0.0	81.2
Total	Lumens	38357.0	0.0	38357.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	769.2	2.0
10°-20°	1824.5	4.8
20°-30°	2483.8	6.5
30°-40°	3337.7	8.7
40°-50°	4983.7	13.0
50°-60°	7927.3	20.7
60°-70°	9750.2	25.4
70°-80°	6343.9	16.5
80°-90°	936.8	2.4
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°	38357.0	100.0
0°-180°	38357.0	100.0

Coefficient of Utilization



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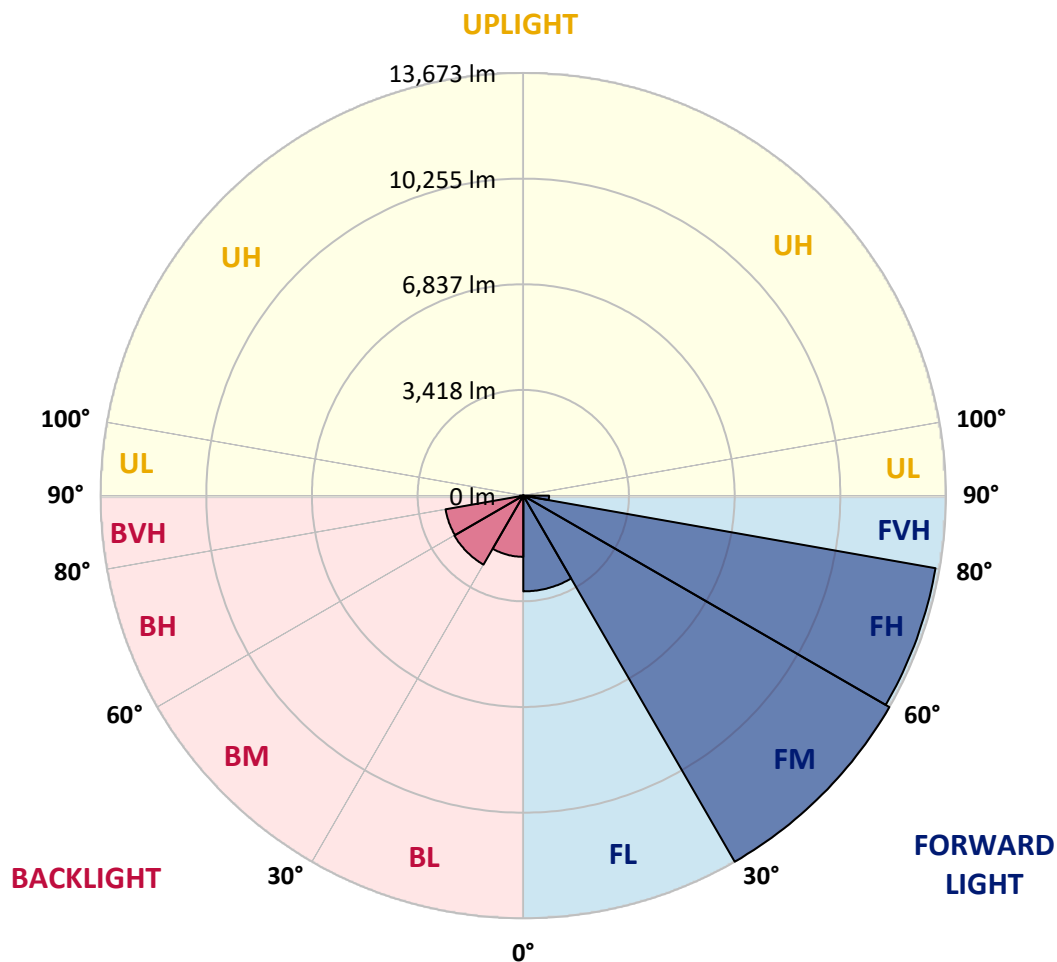
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3097.3	8.1			
FM	(30°-60°)	13673.1	35.6			
FH	(60°-80°)	13540.2	35.3			G5
FVH	(80°-90°)	832.9	2.2			G5
BL	(0°-30°)	1980.1	5.2	B3/2500		
BM	(30°-60°)	2575.5	6.7	B3/5000		
BH	(60°-80°)	2553.9	6.7	B4/5000		G4/5000
BVH	(80°-90°)	103.9	0.3			G2/225
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 Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	8857.7	8857.7	8857.7	8857.7	8857.7	8857.7	8857.7	8857.7	8857.7	8857.7	8857.7
2.5°	8547.6	8581.6	8619.8	8662.3	8743.0	8787.6	8819.5	8855.6	8859.8	8878.9	8864.1
5°	7916.7	7957.1	8014.4	8095.1	8216.2	8405.3	8600.7	8760.0	8779.1	8868.3	8893.8
7.5°	7389.9	7413.3	7460.0	7589.6	7761.6	7971.9	8256.6	8579.4	8626.2	8838.6	8912.9
10°	6960.8	6984.2	7039.4	7173.2	7343.2	7606.6	7918.8	8343.7	8381.9	8747.2	8917.2
12.5°	6640.1	6661.3	6720.8	6852.5	7047.9	7294.3	7638.4	8088.8	8144.0	8626.2	8876.8
15°	6395.8	6436.2	6485.0	6593.4	6799.4	7037.3	7370.8	7855.1	7899.7	8498.7	8849.2
17.5°	6291.7	6310.8	6344.8	6444.7	6595.5	6829.1	7164.8	7672.4	7725.5	8409.5	8842.8
20°	6296.0	6315.1	6321.5	6376.7	6485.0	6686.8	7018.2	7528.0	7591.7	8330.9	8853.4
22.5°	6440.4	6442.5	6419.2	6400.1	6442.5	6610.3	6914.1	7419.6	7494.0	8296.9	8861.9
25°	6663.5	6701.7	6667.7	6578.5	6499.9	6580.6	6873.7	7360.2	7430.3	8248.1	8851.3
27.5°	7024.6	7030.9	7003.3	6882.2	6678.3	6618.8	6856.7	7315.6	7375.0	8212.0	8798.2
30°	7508.9	7489.7	7464.3	7330.4	7009.7	6765.4	6892.9	7275.2	7336.8	8158.9	8734.5
32.5°	7999.5	8059.0	8035.7	7878.5	7462.1	7050.0	7009.7	7271.0	7321.9	8118.5	8664.4
35°	8520.0	8547.6	8658.0	8577.3	8150.4	7511.0	7228.5	7336.8	7377.2	8120.6	8615.5
37.5°	8927.8	9002.1	9261.3	9331.4	8929.9	8120.6	7583.2	7523.7	7540.7	8224.7	8634.7
40°	9420.6	9548.0	9881.5	10168.3	9904.9	8912.9	8186.5	7870.0	7891.2	8475.4	8760.0
42.5°	10045.1	10134.3	10582.5	10971.2	10928.7	9960.1	8917.2	8437.1	8447.7	8974.5	9110.5
45°	10775.8	10903.3	11406.7	11990.8	12090.7	11145.4	9972.9	9295.3	9288.9	9749.8	9764.7
47.5°	11710.4	11789.0	12288.2	12925.4	13329.0	12634.4	11253.7	10527.3	10459.3	10879.9	10758.8
50°	12570.7	12693.9	13072.0	13768.7	14773.4	14378.4	12938.2	12124.6	11965.3	12358.3	12154.4
52.5°	12931.8	13061.4	13380.0	14244.5	16011.8	16634.2	15077.2	14030.0	13764.5	14066.1	13991.8
55°	12305.2	12473.0	12770.4	13821.8	16555.6	19236.3	17961.8	16232.7	16039.4	15909.9	15931.1
57.5°	10620.7	10780.1	11181.5	12341.3	15905.6	21124.7	22080.5	19064.2	18650.0	18053.1	18155.1
60°	8084.5	8184.3	8392.5	9677.6	13979.0	21615.3	26757.9	22643.4	22380.0	20187.9	20260.1
62.5°	5741.6	5854.2	5998.6	6640.1	10234.1	20232.5	30419.9	27641.5	26700.5	22399.1	22329.0
65°	4662.5	4586.0	4760.2	5059.7	6005.0	15680.5	31244.1	34579.0	33283.3	25311.3	24338.5
67.5°	3834.1	3753.4	3925.4	4458.6	4566.9	9102.0	28274.5	39082.2	38823.1	28478.5	26379.8
69°	3394.4	3351.9	3502.7	4110.2	4384.2	6463.8	24631.6	39708.8	39770.4	30345.6	26694.2
70°	3058.8	3075.8	3222.3	3933.9	4301.4	5329.5	21052.4	38844.3	39366.8	31278.1	26354.3
72.5°	2251.6	2287.7	2491.6	3258.4	4222.8	4522.3	12528.2	33929.0	34853.0	31333.3	24109.1
75°	1574.0	1557.0	1737.6	2453.4	3989.1	4482.0	7358.0	26239.6	27286.8	27082.9	20258.0
77.5°	1030.2	1057.8	1202.3	1733.3	3356.2	4448.0	4796.3	18616.0	19295.8	18112.6	11982.3
80°	726.5	724.3	805.1	1183.2	2489.5	4273.8	3927.5	11733.8	11561.7	7118.0	3553.7
82.5°	416.3	446.1	539.5	832.7	1665.3	3761.9	3613.2	5612.0	5123.4	2028.6	1200.1
85°	231.5	242.2	320.7	503.4	972.9	2833.6	3154.4	2553.2	2408.8	847.5	516.2
87.5°	74.3	80.7	133.8	254.9	441.8	1338.2	1786.4	1178.9	1087.6	305.9	208.2
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°	8857.7	8857.7	8857.7	8857.7	8857.7	8857.7	8857.7	8857.7	8857.7	8857.7	8857.7
2.5°	8870.4	8895.9	8828.0	8762.1	8702.6	8619.8	8545.4	8483.8	8441.4	8435.0	8413.8
5°	8900.2	8902.3	8772.7	8598.6	8428.6	8241.7	8048.4	7910.3	7780.8	7708.5	7672.4
7.5°	8921.4	8902.3	8668.6	8386.1	8059.0	7719.2	7379.3	7107.4	6897.1	6814.3	6846.1
10°	8912.9	8853.4	8511.5	8059.0	7583.2	7075.5	6587.0	6204.6	5854.2	5673.6	5677.8
12.5°	8866.2	8768.5	8277.8	7691.5	6992.7	6313.0	5565.3	5049.1	4643.4	4403.4	4329.0
15°	8825.8	8655.9	8003.8	7192.4	6323.6	5352.9	4441.6	3804.3	3464.5	3275.4	3273.3
17.5°	8783.4	8547.6	7704.3	6663.5	5554.6	4305.6	3349.8	2863.4	2704.0	2723.2	2691.3
20°	8738.7	8420.1	7392.0	6075.1	4617.9	3211.7	2508.6	2311.1	2355.7	2442.8	2455.5
22.5°	8687.8	8284.2	7056.4	5427.2	3632.3	2417.3	2034.9	2005.2	2119.9	2255.8	2275.0
25°	8609.2	8114.2	6633.7	4749.6	2801.8	1947.8	1782.2	1803.4	1916.0	2030.7	2043.4
27.5°	8498.7	7904.0	6206.8	3904.2	2105.0	1671.7	1629.2	1656.8	1712.1	1782.2	1799.2
30°	8350.0	7666.1	5716.1	3173.5	1686.6	1533.6	1516.6	1531.5	1563.4	1593.1	1601.6
32.5°	8201.3	7436.6	5221.2	2430.0	1503.9	1442.3	1425.3	1425.3	1425.3	1429.6	1431.7
35°	8063.3	7220.0	4690.1	1892.6	1408.3	1370.1	1346.7	1321.2	1317.0	1302.1	1302.1
37.5°	7986.8	7022.4	4125.1	1584.6	1338.2	1310.6	1278.7	1236.3	1212.9	1215.0	1210.8
40°	8001.7	6892.9	3611.1	1410.4	1280.9	1251.1	1202.3	1153.4	1138.5	1138.5	1134.3
42.5°	8169.5	6850.4	3118.2	1319.1	1225.6	1191.6	1130.0	1085.4	1076.9	1074.8	1079.1
45°	8556.1	6954.5	2676.4	1259.6	1178.9	1127.9	1066.3	1026.0	1017.5	1017.5	1015.3
47.5°	9310.1	7292.2	2359.9	1221.4	1144.9	1079.1	1015.3	975.0	960.1	955.9	955.9
50°	10482.7	8025.0	2124.1	1187.4	1102.4	1034.5	968.6	921.9	898.5	896.4	894.3
52.5°	12111.9	9167.8	2032.8	1161.9	1055.7	987.7	915.5	870.9	841.2	834.8	830.5
55°	14017.3	10763.1	2158.1	1142.8	1006.8	934.6	860.3	813.5	785.9	773.2	771.1
57.5°	16224.2	12679.0	2633.9	1117.3	962.2	877.3	805.1	758.3	728.6	713.7	709.5
60°	18206.1	14648.1	3464.5	1102.4	924.0	815.7	741.3	698.8	671.2	656.4	654.2
62.5°	20383.3	16525.9	4456.5	1142.8	907.0	756.2	681.9	643.6	620.3	605.4	605.4
65°	22709.3	18405.7	5112.8	1278.7	932.5	709.5	618.1	586.3	565.0	554.4	552.3
67.5°	24276.9	19055.7	4212.2	1418.9	996.2	658.5	556.5	531.0	518.3	507.7	507.7
69°	24107.0	18233.7	3107.6	1455.0	1015.3	633.0	522.5	503.4	486.4	482.2	477.9
70°	23569.5	17296.9	2604.2	1431.7	1000.5	609.6	501.3	477.9	463.1	458.8	456.7
72.5°	20993.0	15000.7	1939.3	1244.8	851.8	528.9	443.9	422.7	410.0	403.6	403.6
75°	17441.4	12260.6	1514.5	989.9	667.0	446.1	380.2	363.2	352.6	348.4	346.2
77.5°	9775.3	6846.1	1087.6	775.3	505.5	361.1	318.6	303.8	293.1	288.9	288.9
80°	2723.2	1956.3	639.4	511.9	344.1	274.0	252.8	242.2	227.3	216.7	223.0
82.5°	1026.0	847.5	365.4	308.0	218.8	182.7	176.3	167.8	161.4	146.6	146.6
85°	499.2	412.1	233.7	163.6	121.1	95.6	91.3	87.1	82.8	72.2	74.3
87.5°	172.1	182.7	102.0	59.5	36.1	23.4	19.1	10.6	10.6	10.6	10.6
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)