

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: P457234

Luminaire Tested: **GALN-SA8C-740-U-T4FT**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457234
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-28)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8C-740-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 56646 lumens
Efficiency: N/A
Efficacy: 132.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

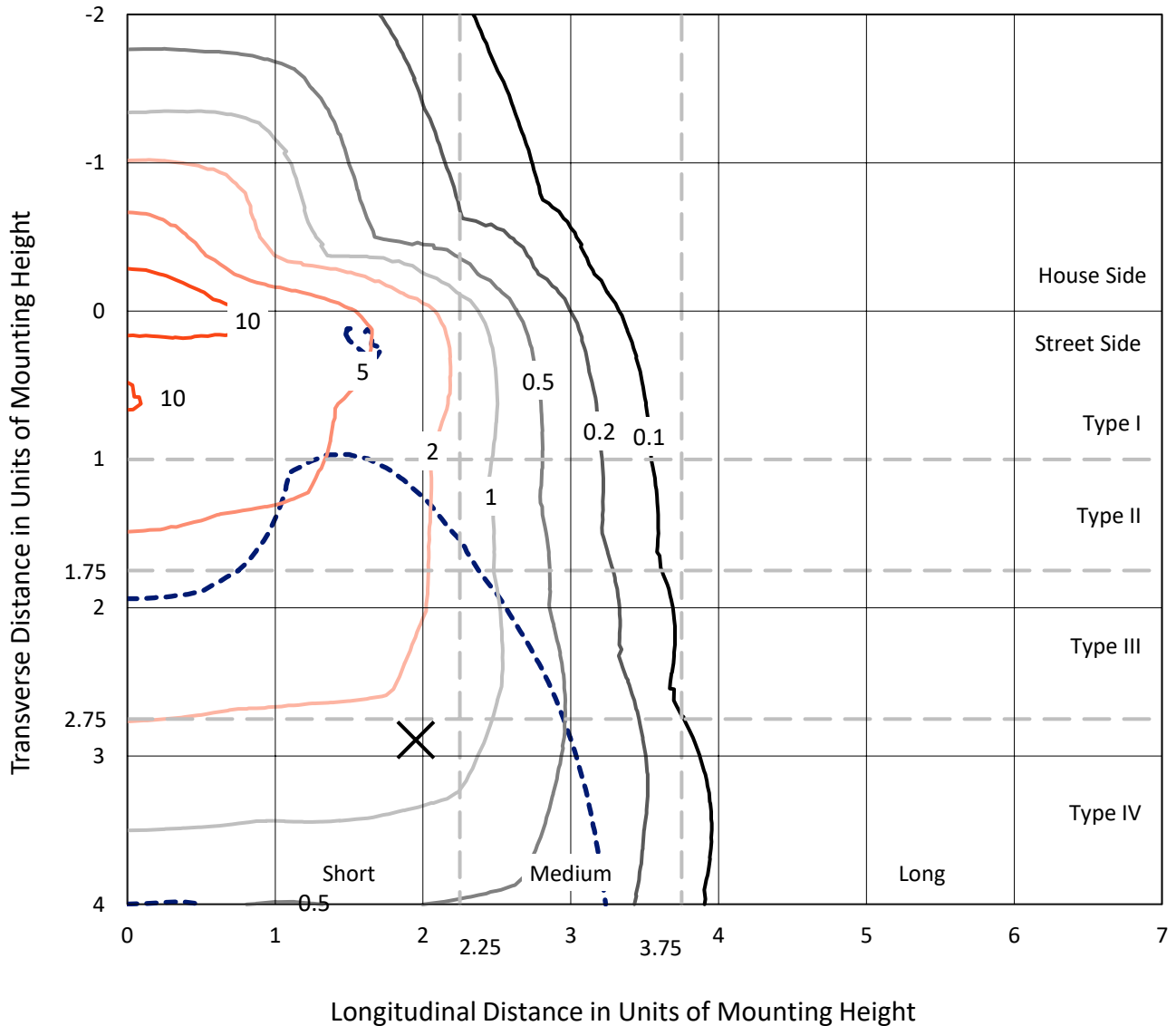
Input Watts (W): 429
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

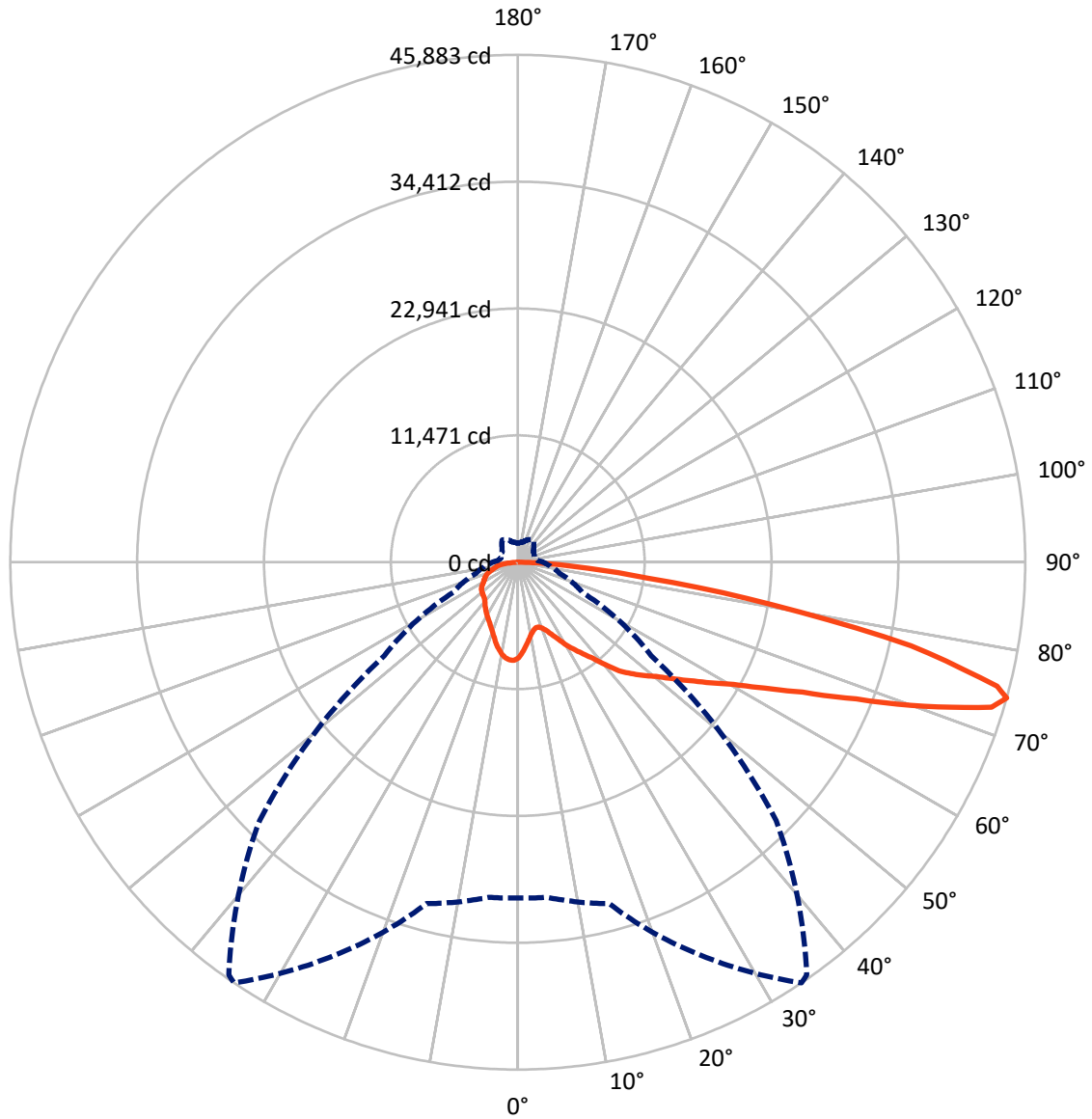
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.8 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral - - - Horizontal Cone Through 74-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12054.7	0.0	12054.7
	% Fixture	21.3	0.0	21.3
Street Side	Lumens	44591.3	0.0	44591.3
	% Fixture	78.7	0.0	78.7
Total	Lumens	56646.0	0.0	56646.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	786.6	1.4
10°-20°	2153.2	3.8
20°-30°	3550.0	6.3
30°-40°	5317.6	9.4
40°-50°	7730.3	13.6
50°-60°	10797.4	19.1
60°-70°	13517.7	23.9
70°-80°	11178.1	19.7
80°-90°	1615.1	2.9
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°	56646.0	100.0
0°-180°	56646.0	100.0

Coefficient of Utilization



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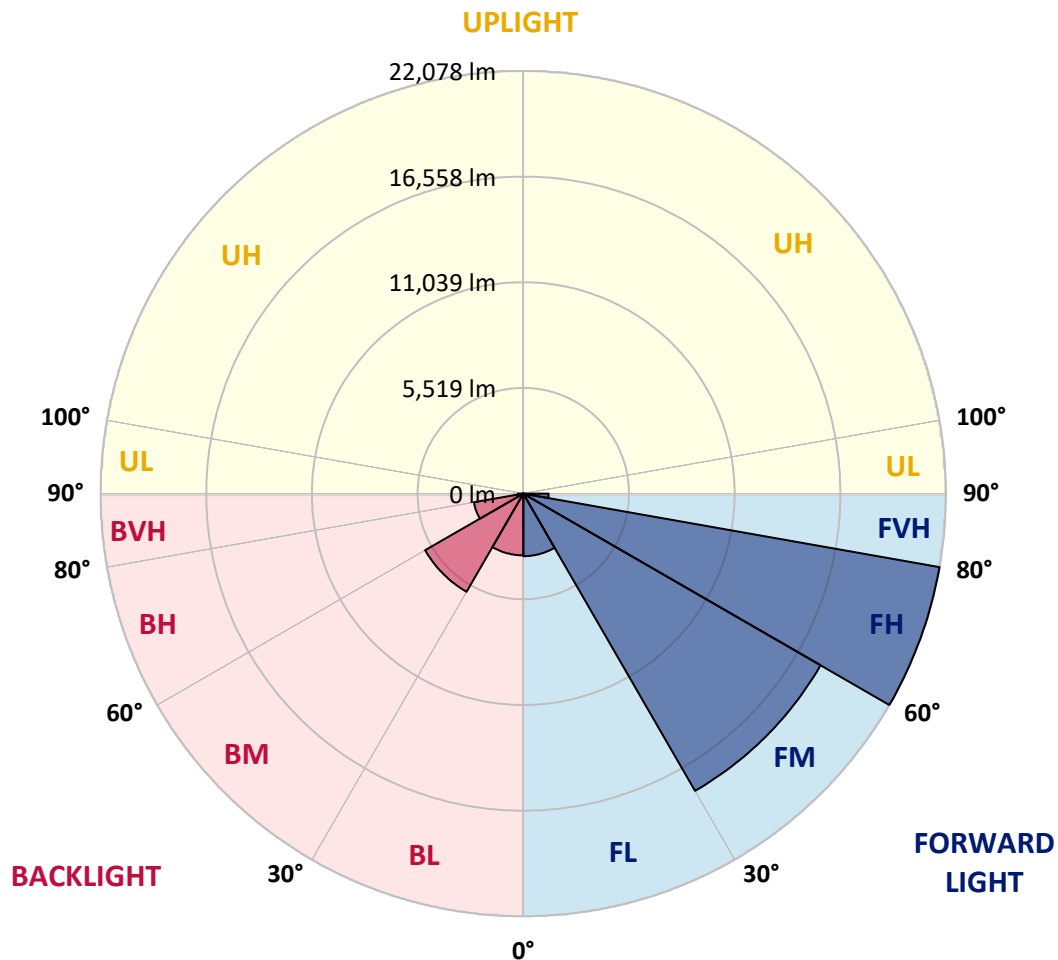
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3265.4	5.8			
FM	(30°-60°)	17925.1	31.6			
FH	(60°-80°)	22077.6	39.0			G5
FVH	(80°-90°)	1323.2	2.3			G5
BL	(0°-30°)	3224.4	5.7	B4/5000		
BM	(30°-60°)	5920.1	10.5	B4/8500		
BH	(60°-80°)	2618.2	4.6	B4/5000		G4/5000
BVH	(80°-90°)	292.0	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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	8648.7	8648.7	8648.7	8648.7	8648.7	8648.7	8648.7	8648.7	8648.7	8648.7	8648.7
2.5°	7992.9	8033.6	8055.6	8134.1	8152.9	8178.0	8243.9	8331.8	8444.7	8545.2	8633.0
5°	7327.6	7390.3	7428.0	7497.0	7632.0	7644.5	7820.3	8021.1	8250.2	8463.6	8639.3
7.5°	6696.8	6765.8	6797.2	6922.7	7101.6	7129.9	7387.2	7704.1	8087.0	8410.2	8680.1
10°	6222.9	6257.5	6326.5	6420.6	6634.0	6652.9	6988.6	7412.3	7908.1	8385.1	8749.1
12.5°	5965.6	5984.4	6000.1	6100.6	6310.8	6339.1	6690.5	7170.7	7766.9	8403.9	8862.1
15°	6003.3	6009.5	5940.5	5959.3	6128.8	6169.6	6517.9	7010.6	7679.0	8451.0	9031.6
17.5°	6320.2	6298.3	6128.8	6040.9	6160.2	6179.0	6483.4	6947.9	7638.2	8538.9	9207.3
20°	6819.2	6787.8	6496.0	6301.4	6370.4	6386.1	6596.4	6994.9	7679.0	8683.2	9480.3
22.5°	7440.5	7428.0	6985.5	6750.1	6747.0	6747.0	6856.8	7164.4	7801.4	8880.9	9765.9
25°	8309.8	8243.9	7666.5	7362.1	7277.4	7271.1	7258.5	7443.7	7958.3	9091.2	10104.8
27.5°	9201.0	9088.1	8573.4	8105.8	7923.8	7901.8	7820.3	7839.1	8159.2	9329.7	10490.8
30°	10001.3	9929.1	9445.8	8928.0	8711.5	8661.3	8435.3	8331.8	8495.0	9759.6	11105.9
32.5°	10613.2	10569.3	10192.7	9722.0	9401.9	9392.5	9063.0	8978.2	9019.0	10280.6	11808.8
35°	11109.0	11124.7	10933.3	10525.3	10158.2	10104.8	9885.2	9778.5	9659.2	11033.7	12693.8
37.5°	11786.9	11821.4	11808.8	11457.4	11008.6	11021.2	10971.0	10795.2	10478.3	11874.7	13676.0
40°	12533.7	12558.9	12555.7	12420.8	12185.4	12198.0	12179.1	11978.3	11504.4	12944.8	14768.1
42.5°	13566.2	13446.9	13136.3	13271.2	13409.3	13468.9	13597.6	13406.1	12756.6	14087.1	15794.3
45°	14721.0	14495.1	13792.1	13854.9	14366.4	14479.4	15188.6	14925.0	14115.4	15398.9	17002.5
47.5°	15449.1	15226.3	14633.2	14620.6	15298.5	15408.3	16663.5	16566.3	15351.8	16814.2	18477.4
50°	16098.7	16067.3	15398.9	15558.9	16221.1	16384.2	18270.3	18179.3	16585.1	18483.7	20084.1
52.5°	17062.1	16807.9	16274.4	16603.9	17479.5	17692.9	19864.4	19597.7	17718.0	19958.6	21643.8
55°	17495.2	17435.5	17404.1	17689.7	18891.6	19045.4	21414.7	20802.8	18684.5	21207.6	22830.0
57.5°	18653.1	18543.3	18854.0	19048.5	20554.8	20790.2	23034.0	22061.1	19531.8	22199.2	23407.4
60°	20153.2	20093.5	20379.1	20730.6	22412.6	22770.4	24879.2	23134.4	20212.8	22698.2	23090.5
62.5°	22393.8	22387.5	22334.2	23087.3	25045.5	25375.0	26997.4	24179.4	20319.5	22324.8	21452.3
65°	25607.3	25494.3	25029.8	25852.0	28321.7	28707.7	29203.6	24763.1	19676.2	20407.3	18063.2
67.5°	28968.2	28961.9	28585.4	29652.3	33025.8	33424.4	31962.0	24634.4	17890.6	16531.7	12828.7
70°	31754.9	31619.9	32100.1	34943.2	39035.4	39496.7	34375.2	23118.7	14250.3	10917.6	7622.6
72.5°	32423.3	32429.6	33427.5	39022.8	44806.4	44878.6	35244.5	18737.9	9536.8	6022.1	3812.8
74°	30364.7	30418.0	31965.1	39226.8	45882.8	45556.4	33022.7	14727.3	6448.9	3932.1	2749.0
75°	27716.1	27380.3	29617.8	37868.0	44765.6	44414.1	30421.2	11818.2	4920.6	3141.3	2407.0
77.5°	14818.3	15160.4	18612.3	28259.0	36367.9	35963.1	20627.0	5667.5	2658.0	2187.3	1732.3
80°	5275.2	5818.1	8178.0	14786.9	23316.4	23441.9	9844.4	2598.4	1870.3	1613.0	1223.9
82.5°	2152.8	2212.4	3511.6	6561.9	11840.2	11953.2	4020.0	1544.0	1336.8	1110.9	731.2
85°	841.0	866.1	1553.4	2949.9	5052.4	5381.9	1390.2	815.9	822.2	637.0	373.4
87.5°	282.4	320.1	637.0	982.2	1716.6	1682.0	404.8	241.6	295.0	276.2	116.1
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°	8648.7	8648.7	8648.7	8648.7	8648.7	8648.7	8648.7	8648.7	8648.7	8648.7	8648.7
2.5°	8677.0	8736.6	8777.4	8821.3	8862.1	8874.7	8865.3	8893.5	8896.6	8899.8	8902.9
5°	8727.2	8808.8	8887.2	8931.2	8950.0	8934.3	8880.9	8852.7	8827.6	8808.8	8815.0
7.5°	8796.2	8912.3	8984.5	9003.3	8953.1	8880.9	8749.1	8645.6	8579.7	8535.8	8532.6
10°	8902.9	9015.9	9075.5	9022.2	8884.1	8708.3	8501.2	8306.7	8159.2	8115.2	8112.1
12.5°	9037.9	9166.5	9163.4	9006.5	8764.8	8451.0	8115.2	7889.3	7688.5	7588.0	7628.8
15°	9213.6	9310.9	9219.9	8937.4	8554.6	8124.7	7710.4	7402.9	7176.9	7070.2	7076.5
17.5°	9417.6	9502.3	9260.7	8815.0	8259.6	7707.3	7227.1	6935.3	6756.4	6678.0	6671.7
20°	9671.8	9696.9	9260.7	8601.7	7879.9	7220.9	6762.7	6558.7	6458.3	6417.5	6430.1
22.5°	9944.8	9894.6	9210.5	8300.4	7380.9	6712.5	6405.0	6313.9	6263.7	6257.5	6263.7
25°	10252.3	10111.1	9106.9	7892.4	6860.0	6273.1	6094.3	6110.0	6119.4	6119.4	6141.3
27.5°	10628.9	10346.5	8934.3	7377.8	6251.2	5865.2	5815.0	5924.8	5975.0	5984.4	6000.1
30°	11124.7	10603.8	8648.7	6734.5	5733.4	5498.0	5585.9	5733.4	5789.9	5824.4	5818.1
32.5°	11714.7	10886.2	8262.7	6091.1	5316.0	5240.7	5347.4	5498.0	5560.8	5579.6	5554.5
35°	12408.2	11206.3	7754.4	5488.6	4952.0	4995.9	5121.5	5168.5	5225.0	5225.0	5237.6
37.5°	13155.1	11463.6	7133.0	4936.3	4669.6	4829.6	4920.6	4876.7	4851.6	4820.2	4835.9
40°	13914.5	11655.1	6326.5	4390.3	4387.1	4657.0	4682.1	4556.6	4456.2	4424.8	4409.1
42.5°	14576.7	11774.3	5598.4	3966.6	4120.4	4487.5	4506.4	4305.5	4145.5	4051.3	4020.0
45°	15358.1	11912.4	4886.1	3615.1	3872.5	4352.6	4399.7	4129.8	3894.4	3696.7	3646.5
47.5°	16428.2	12226.2	4324.4	3342.1	3693.6	4267.9	4333.8	3985.4	3674.8	3417.4	3376.6
50°	17636.4	12656.1	3888.2	3157.0	3555.5	4192.6	4274.2	3837.9	3470.8	3185.2	3153.8
52.5°	18744.1	12888.4	3511.6	2990.7	3420.6	4054.5	4195.7	3731.3	3269.9	2953.0	2924.7
55°	19349.8	12511.8	3141.3	2827.5	3235.4	3875.6	4085.9	3583.8	3075.4	2830.6	2789.8
57.5°	19431.4	11733.5	2805.5	2651.7	3040.9	3655.9	3881.9	3404.9	2949.9	2745.9	2711.4
60°	18800.6	10572.4	2545.0	2507.4	2843.2	3408.0	3652.8	3248.0	2821.2	2651.7	2617.2
62.5°	17231.5	9310.9	2363.0	2375.6	2642.3	3147.6	3483.3	3097.3	2698.8	2548.2	2516.8
65°	14532.7	7685.3	2187.3	2240.6	2463.4	2943.6	3329.6	2971.8	2576.4	2469.7	2441.5
67.5°	10095.4	5548.2	2042.9	2099.4	2294.0	2736.5	3150.7	2836.9	2438.3	2381.9	2337.9
70°	5589.0	3414.3	1873.5	1939.4	2118.2	2504.2	2949.9	2632.9	2237.5	2212.4	2149.6
72.5°	2937.3	2174.7	1682.0	1754.2	1879.7	2206.1	2642.3	2410.1	2039.8	1933.1	1851.5
74°	2294.0	1782.5	1553.4	1628.7	1713.4	2030.4	2460.3	2250.0	1898.6	1773.1	1710.3
75°	1999.0	1587.9	1443.5	1540.8	1616.1	1911.1	2319.1	2137.1	1820.1	1700.9	1644.4
77.5°	1412.2	1189.4	1179.9	1296.1	1336.8	1675.8	2090.0	1945.6	1622.4	1496.9	1443.5
80°	991.7	891.2	935.2	1007.3	1063.8	1481.2	1939.4	1682.0	1330.6	1183.1	1164.3
82.5°	646.5	583.7	668.4	734.3	753.2	1092.1	1565.9	1277.2	969.7	787.7	731.2
85°	298.1	291.8	382.9	373.4	370.3	533.5	928.9	746.9	558.6	417.4	392.3
87.5°	75.3	72.2	94.1	78.5	94.1	81.6	84.7	22.0	3.1	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)