

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: P456248

Luminaire Tested: **GALN-SA7C-727-U-T4FT**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456248
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-SA7C-727-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 2700K, 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: 40862 lumens
Efficiency: N/A
Efficacy: 108.4 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

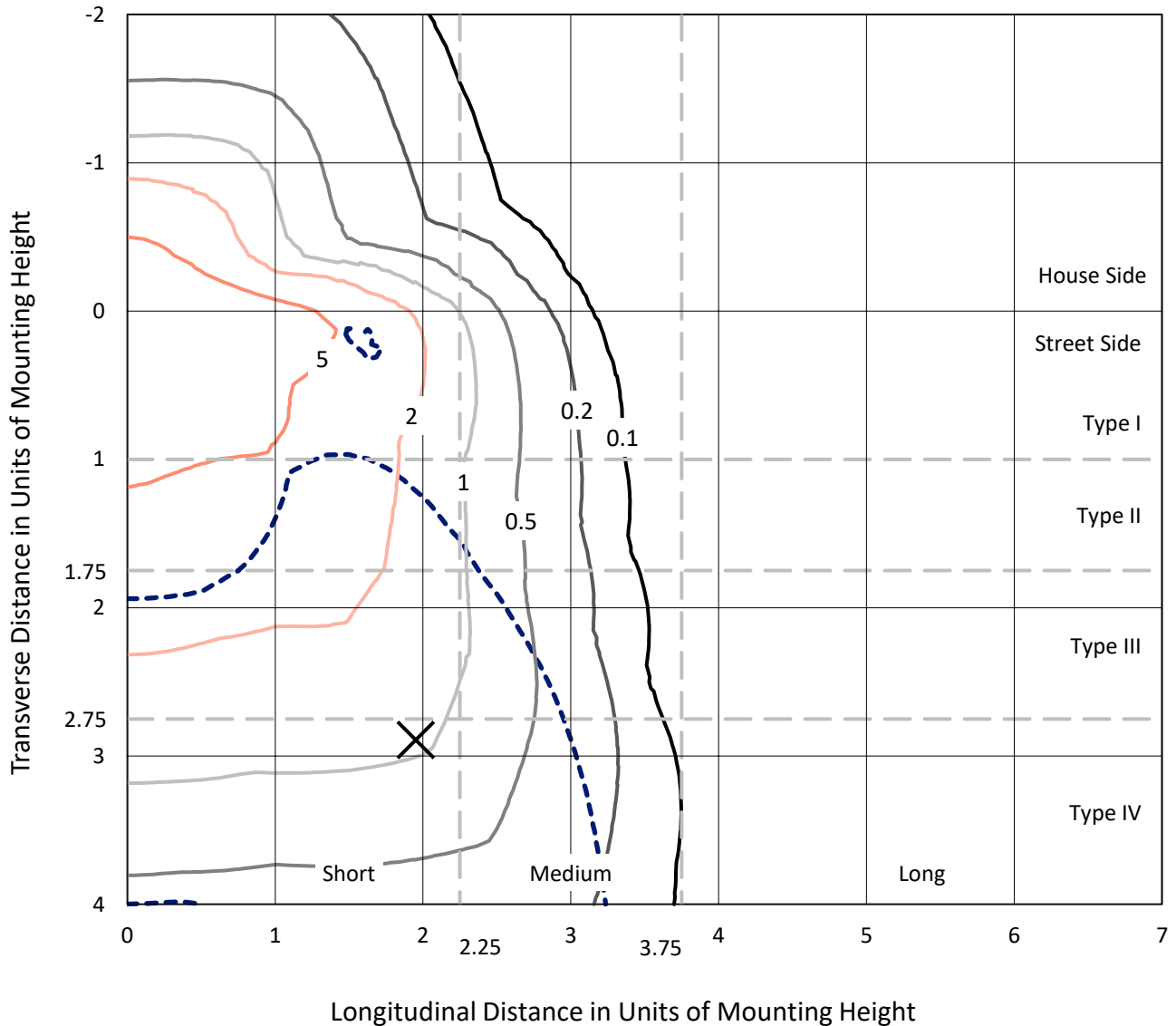
Input Watts (W): 377
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

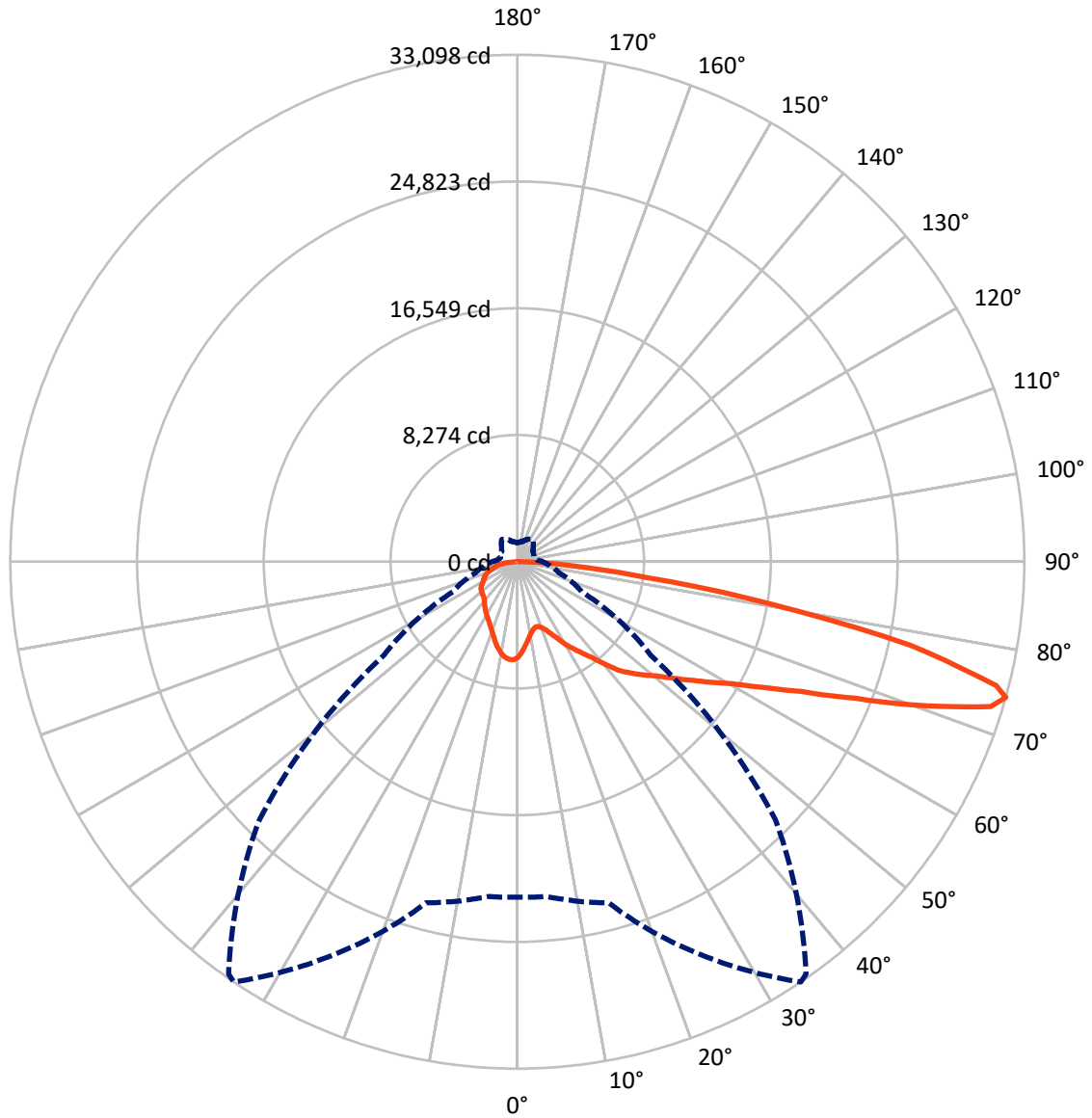
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10 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	8695.7	0.0	8695.7
	% Fixture	21.3	0.0	21.3
Street Side	Lumens	32166.3	0.0	32166.3
	% Fixture	78.7	0.0	78.7
Total	Lumens	40862.0	0.0	40862.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	567.4	1.4
10°-20°	1553.2	3.8
20°-30°	2560.9	6.3
30°-40°	3835.9	9.4
40°-50°	5576.3	13.6
50°-60°	7788.8	19.1
60°-70°	9751.1	23.9
70°-80°	8063.4	19.7
80°-90°	1165.1	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°	40862.0	100.0
0°-180°	40862.0	100.0

Coefficient of Utilization



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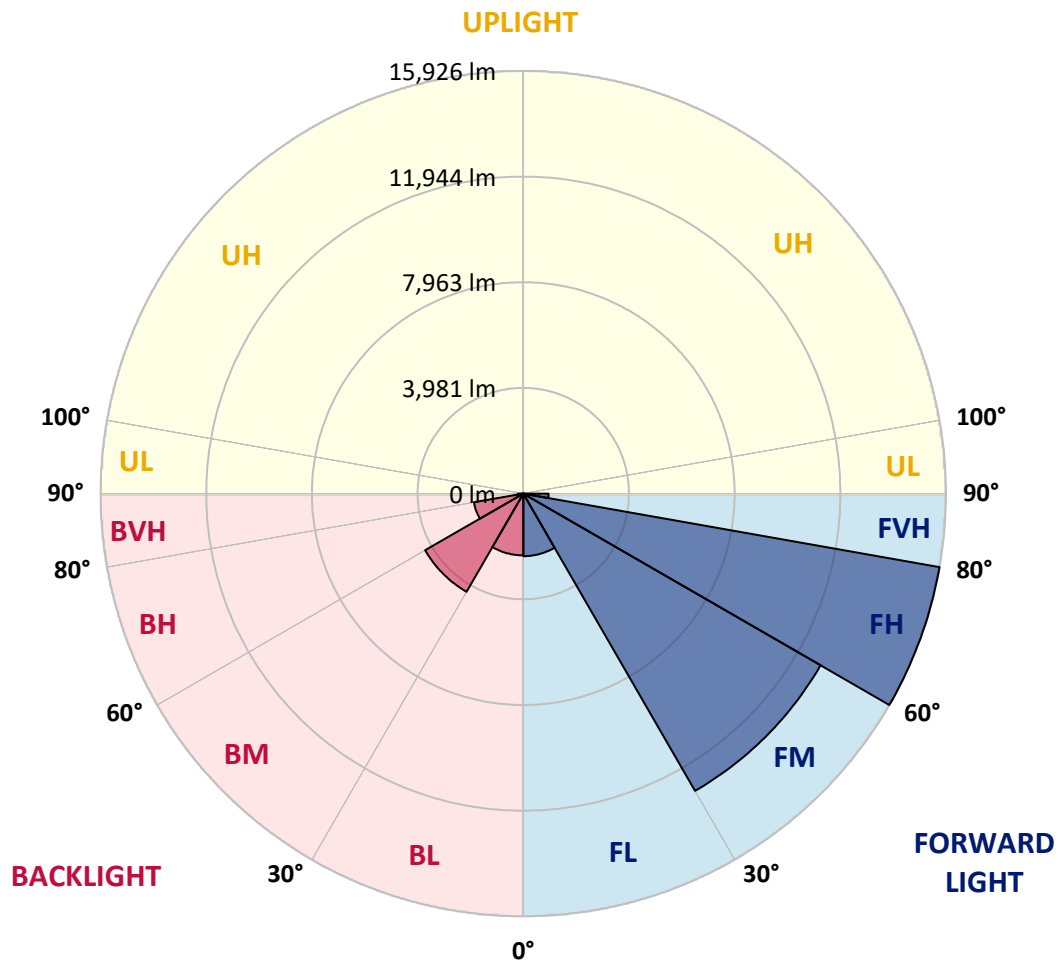
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2355.5	5.8			
FM	(30°-60°)	12930.4	31.6			
FH	(60°-80°)	15925.9	39.0			G5
FVH	(80°-90°)	954.5	2.3			G5
BL	(0°-30°)	2326.0	5.7	B3/2500		
BM	(30°-60°)	4270.5	10.5	B3/5000		
BH	(60°-80°)	1888.7	4.6	B3/2500		G3/2500
BVH	(80°-90°)	210.6	0.5			G2/225
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°	6238.8	6238.8	6238.8	6238.8	6238.8	6238.8	6238.8	6238.8	6238.8	6238.8	6238.8
2.5°	5765.7	5795.1	5811.0	5867.6	5881.2	5899.3	5946.8	6010.2	6091.7	6164.1	6227.5
5°	5285.8	5331.1	5358.2	5408.0	5505.4	5514.4	5641.2	5786.1	5951.3	6105.3	6232.0
7.5°	4830.8	4880.6	4903.2	4993.8	5122.8	5143.2	5328.8	5557.4	5833.6	6066.8	6261.5
10°	4489.0	4513.9	4563.7	4631.6	4785.5	4799.1	5041.3	5346.9	5704.6	6048.7	6311.3
12.5°	4303.3	4316.9	4328.2	4400.7	4552.3	4572.7	4826.3	5172.6	5602.7	6062.2	6392.8
15°	4330.5	4335.0	4285.2	4298.8	4421.1	4450.5	4701.8	5057.2	5539.3	6096.2	6515.0
17.5°	4559.1	4543.3	4421.1	4357.7	4443.7	4457.3	4676.9	5011.9	5509.9	6159.6	6641.8
20°	4919.1	4896.4	4685.9	4545.6	4595.4	4606.7	4758.3	5045.8	5539.3	6263.7	6838.7
22.5°	5367.3	5358.2	5039.0	4869.3	4867.0	4867.0	4946.2	5168.1	5627.6	6406.3	7044.7
25°	5994.3	5946.8	5530.3	5310.7	5249.6	5245.0	5236.0	5369.5	5740.8	6558.0	7289.2
27.5°	6637.2	6555.7	6184.5	5847.2	5715.9	5700.1	5641.2	5654.8	5885.7	6730.0	7567.6
30°	7214.5	7162.4	6813.8	6440.3	6284.1	6247.9	6084.9	6010.2	6127.9	7040.2	8011.3
32.5°	7655.9	7624.2	7352.6	7013.0	6782.1	6775.3	6537.6	6476.5	6505.9	7416.0	8518.4
35°	8013.6	8024.9	7886.8	7592.5	7327.7	7289.2	7130.7	7053.8	6967.7	7959.2	9156.8
37.5°	8502.5	8527.4	8518.4	8264.9	7941.1	7950.2	7914.0	7787.2	7558.6	8565.9	9865.3
40°	9041.3	9059.4	9057.2	8959.8	8790.0	8799.1	8785.5	8640.6	8298.8	9337.9	10653.1
42.5°	9786.1	9700.1	9475.9	9573.3	9672.9	9715.9	9808.7	9670.6	9202.0	10161.9	11393.3
45°	10619.1	10456.1	9949.1	9994.3	10363.3	10444.8	10956.4	10766.3	10182.2	11108.1	12264.8
47.5°	11144.3	10983.6	10555.7	10546.7	11035.6	11114.9	12020.4	11950.2	11074.1	12129.0	13328.8
50°	11612.9	11590.3	11108.1	11223.5	11701.2	11818.9	13179.4	13113.7	11963.8	13333.3	14487.8
52.5°	12307.9	12124.5	11739.7	11977.4	12608.9	12762.9	14329.4	14136.9	12781.0	14397.3	15612.9
55°	12620.3	12577.2	12554.6	12760.6	13627.6	13738.5	15447.6	15006.2	13478.2	15298.2	16468.6
57.5°	13455.6	13376.3	13600.4	13740.8	14827.4	14997.2	16615.7	15914.0	14089.4	16013.6	16885.1
60°	14537.6	14494.6	14700.6	14954.2	16167.5	16425.6	17946.8	16688.2	14580.6	16373.5	16656.5
62.5°	16153.9	16149.4	16110.9	16654.2	18066.8	18304.5	19474.8	17442.0	14657.6	16104.1	15474.8
65°	18472.0	18390.5	18055.5	18648.5	20430.1	20708.5	21066.2	17863.0	14193.5	14721.0	13030.0
67.5°	20896.4	20891.9	20620.2	21389.9	23823.4	24110.9	23056.0	17770.2	12905.5	11925.3	9254.1
70°	22906.6	22809.3	23155.6	25206.6	28158.4	28491.2	24796.8	16676.8	10279.6	7875.5	5498.6
72.5°	23388.8	23393.3	24113.2	28149.4	32321.4	32373.5	25423.9	13516.7	6879.5	4344.1	2750.4
74°	21903.8	21942.3	23058.3	28296.5	33097.9	32862.5	23821.2	10623.6	4651.9	2836.4	1983.0
75°	19993.2	19751.0	21365.0	27316.3	32292.0	32038.5	21944.5	8525.2	3549.5	2266.0	1736.3
77.5°	10689.3	10936.0	13426.1	20384.8	26234.3	25942.3	14879.4	4088.3	1917.4	1577.8	1249.6
80°	3805.3	4196.9	5899.3	10666.7	16819.5	16910.0	7101.3	1874.4	1349.2	1163.6	882.9
82.5°	1552.9	1595.9	2533.1	4733.4	8541.0	8622.5	2899.8	1113.8	964.3	801.4	527.4
85°	606.7	624.8	1120.5	2127.9	3644.6	3882.3	1002.8	588.6	593.1	459.5	269.4
87.5°	203.7	230.9	459.5	708.5	1238.3	1213.4	292.0	174.3	212.8	199.2	83.8
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°	6238.8	6238.8	6238.8	6238.8	6238.8	6238.8	6238.8	6238.8	6238.8	6238.8	6238.8
2.5°	6259.2	6302.2	6331.6	6363.3	6392.8	6401.8	6395.0	6415.4	6417.7	6419.9	6422.2
5°	6295.4	6354.3	6410.9	6442.6	6456.1	6444.8	6406.3	6386.0	6367.9	6354.3	6358.8
7.5°	6345.2	6429.0	6481.0	6494.6	6458.4	6406.3	6311.3	6236.6	6189.0	6157.3	6155.1
10°	6422.2	6503.7	6546.7	6508.2	6408.6	6281.8	6132.4	5992.1	5885.7	5854.0	5851.7
12.5°	6519.5	6612.3	6610.1	6496.9	6322.6	6096.2	5854.0	5691.0	5546.1	5473.7	5503.1
15°	6646.3	6716.5	6650.8	6447.1	6170.9	5860.8	5562.0	5340.1	5177.1	5100.2	5104.7
17.5°	6793.4	6854.6	6680.2	6358.8	5958.1	5559.7	5213.4	5002.8	4873.8	4817.2	4812.7
20°	6976.8	6994.9	6680.2	6204.9	5684.2	5208.8	4878.3	4731.2	4658.7	4629.3	4638.4
22.5°	7173.7	7137.5	6644.0	5987.5	5324.3	4842.1	4620.3	4554.6	4518.4	4513.9	4518.4
25°	7395.6	7293.7	6569.3	5693.3	4948.5	4525.2	4396.1	4407.5	4414.3	4414.3	4430.1
27.5°	7667.2	7463.5	6444.8	5322.0	4509.3	4230.9	4194.7	4273.9	4310.1	4316.9	4328.2
30°	8024.9	7649.1	6238.8	4857.9	4135.8	3966.0	4029.4	4135.8	4176.6	4201.5	4196.9
32.5°	8450.5	7852.9	5960.4	4393.9	3834.7	3780.4	3857.4	3966.0	4011.3	4024.9	4006.8
35°	8950.8	8083.8	5593.7	3959.3	3572.2	3603.8	3694.4	3728.4	3769.1	3769.1	3778.2
37.5°	9489.5	8269.4	5145.4	3560.8	3368.4	3483.9	3549.5	3517.8	3499.7	3477.1	3488.4
40°	10037.3	8407.5	4563.7	3166.9	3164.7	3359.4	3377.5	3286.9	3214.5	3191.8	3180.5
42.5°	10515.0	8493.5	4038.5	2861.3	2972.3	3237.1	3250.7	3105.8	2990.4	2922.5	2899.8
45°	11078.7	8593.1	3524.6	2607.8	2793.4	3139.8	3173.7	2979.1	2809.3	2666.7	2630.4
47.5°	11850.6	8819.5	3119.4	2410.9	2664.4	3078.7	3126.2	2874.9	2650.8	2465.2	2435.8
50°	12722.1	9129.6	2804.8	2277.3	2564.8	3024.3	3083.2	2768.5	2503.7	2297.7	2275.0
52.5°	13521.2	9297.1	2533.1	2157.3	2467.5	2924.7	3026.6	2691.6	2358.8	2130.2	2109.8
55°	13958.1	9025.5	2266.0	2039.6	2333.9	2795.7	2947.4	2585.2	2218.4	2041.9	2012.4
57.5°	14017.0	8464.1	2023.8	1912.8	2193.5	2637.2	2800.2	2456.1	2127.9	1980.8	1955.9
60°	13562.0	7626.5	1835.9	1808.7	2050.9	2458.4	2635.0	2343.0	2035.1	1912.8	1887.9
62.5°	12430.1	6716.5	1704.6	1713.6	1906.1	2270.5	2512.7	2234.3	1946.8	1838.1	1815.5
65°	10483.3	5543.9	1577.8	1616.3	1777.0	2123.4	2401.8	2143.7	1858.5	1781.5	1761.2
67.5°	7282.4	4002.3	1473.7	1514.4	1654.8	1974.0	2272.8	2046.4	1758.9	1718.2	1686.5
70°	4031.7	2462.9	1351.4	1399.0	1528.0	1806.5	2127.9	1899.3	1614.0	1595.9	1550.6
72.5°	2118.8	1568.8	1213.4	1265.4	1356.0	1591.4	1906.1	1738.5	1471.4	1394.5	1335.6
74°	1654.8	1285.8	1120.5	1174.9	1236.0	1464.6	1774.8	1623.1	1369.6	1279.0	1233.7
75°	1442.0	1145.4	1041.3	1111.5	1165.8	1378.6	1672.9	1541.6	1313.0	1226.9	1186.2
77.5°	1018.7	858.0	851.2	934.9	964.3	1208.8	1507.6	1403.5	1170.3	1079.8	1041.3
80°	715.3	642.9	674.6	726.7	767.4	1068.5	1399.0	1213.4	959.8	853.4	839.8
82.5°	466.3	421.1	482.2	529.7	543.3	787.8	1129.6	921.3	699.5	568.2	527.4
85°	215.1	210.5	276.2	269.4	267.1	384.8	670.1	538.8	402.9	301.1	283.0
87.5°	54.3	52.1	67.9	56.6	67.9	58.9	61.1	15.8	2.3	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)