

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: P456944

Luminaire Tested: **GALN-SA8B-727-U-T4FT**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456944
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-SA8B-727-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 2700K, 800mA 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: 38342 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 IV - Short
BUG Rating: B3 - U0 - G5

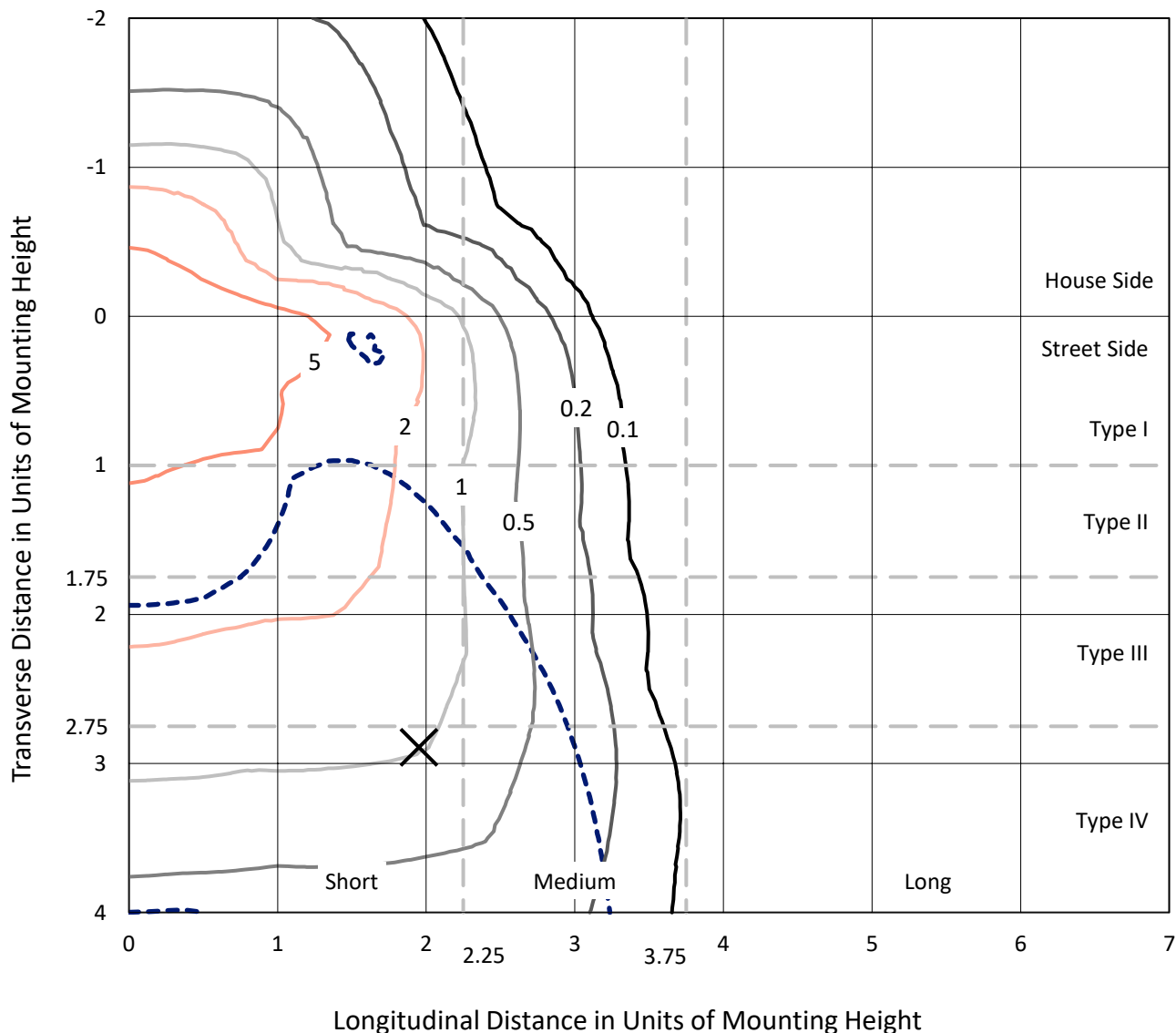
Input Watts (W): 325
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

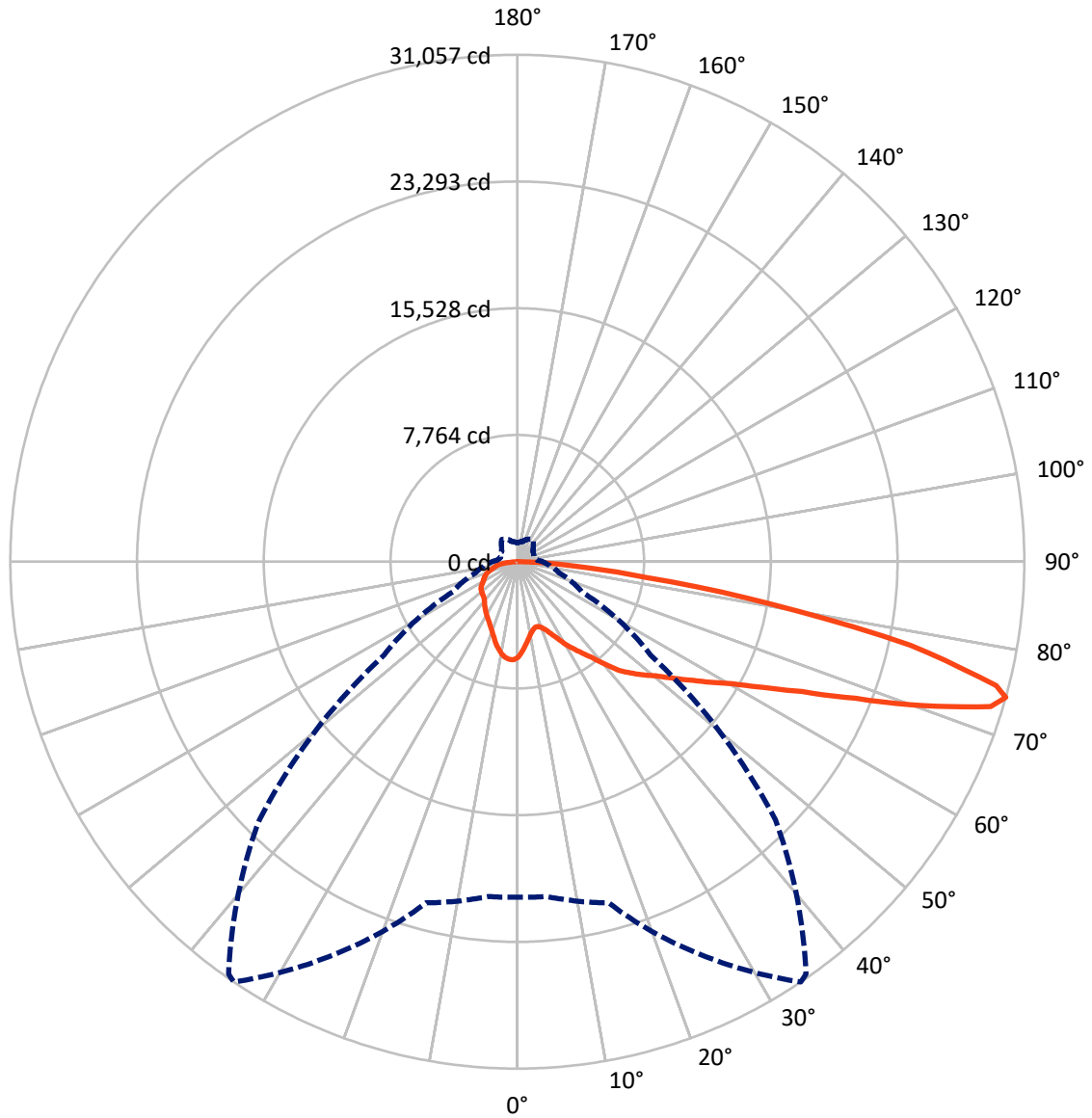
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.4 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	8159.4	0.0	8159.4
	% Fixture	21.3	0.0	21.3
Street Side	Lumens	30182.6	0.0	30182.6
	% Fixture	78.7	0.0	78.7
Total	Lumens	38342.0	0.0	38342.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	532.4	1.4
10°-20°	1457.4	3.8
20°-30°	2402.9	6.3
30°-40°	3599.3	9.4
40°-50°	5232.4	13.6
50°-60°	7308.4	19.1
60°-70°	9149.8	23.9
70°-80°	7566.1	19.7
80°-90°	1093.2	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°	38342.0	100.0
0°-180°	38342.0	100.0

Coefficient of Utilization



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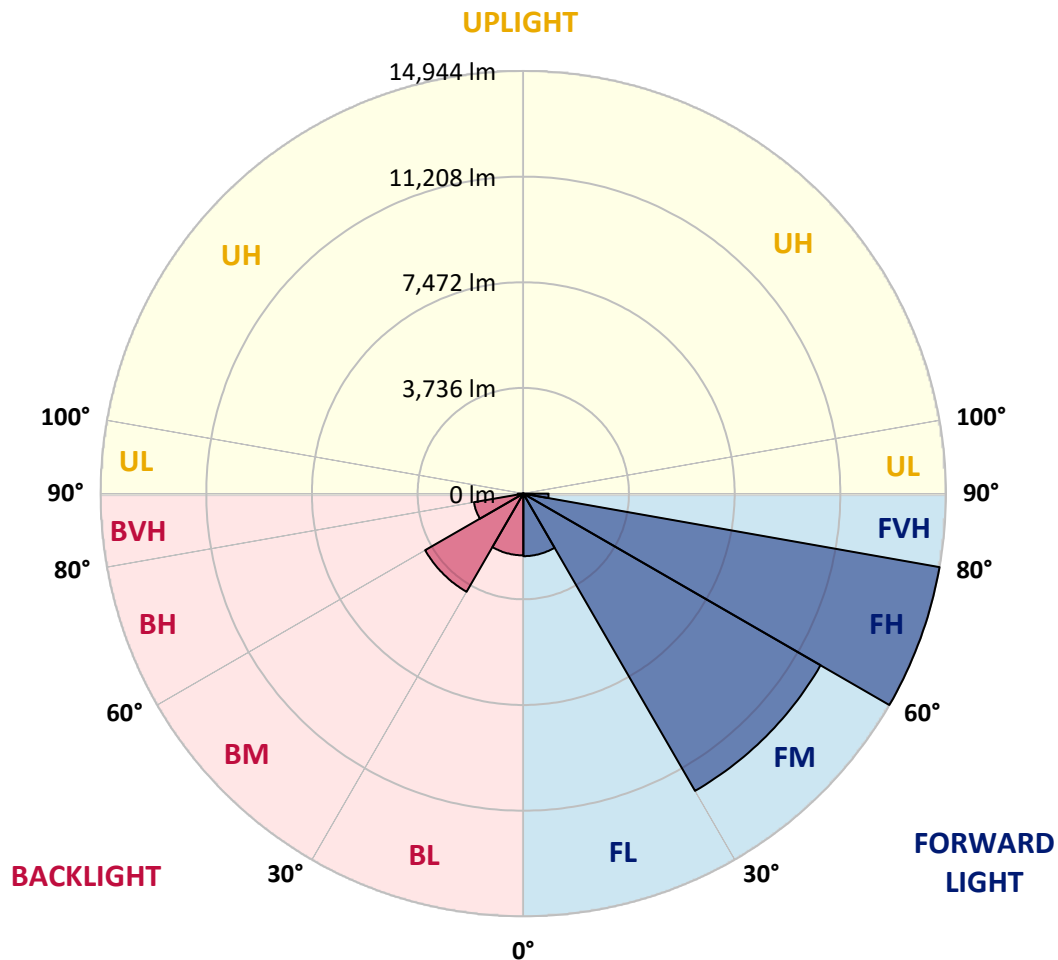
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2210.2	5.8			
FM	(30°-60°)	12133.0	31.6			
FH	(60°-80°)	14943.7	39.0			G5
FVH	(80°-90°)	895.6	2.3			G5
BL	(0°-30°)	2182.5	5.7	B3/2500		
BM	(30°-60°)	4007.1	10.5	B3/5000		
BH	(60°-80°)	1772.2	4.6	B3/2500		G3/2500
BVH	(80°-90°)	197.6	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°	5854.1	5854.1	5854.1	5854.1	5854.1	5854.1	5854.1	5854.1	5854.1	5854.1	5854.1
2.5°	5410.1	5437.7	5452.6	5505.7	5518.5	5535.4	5580.1	5639.5	5716.0	5784.0	5843.4
5°	4959.8	5002.3	5027.8	5074.5	5165.9	5174.3	5293.3	5429.2	5584.3	5728.7	5847.7
7.5°	4532.9	4579.6	4600.8	4685.8	4806.9	4826.0	5000.2	5214.7	5473.8	5692.6	5875.3
10°	4212.1	4235.5	4282.2	4345.9	4490.4	4503.1	4730.4	5017.2	5352.8	5675.6	5922.0
12.5°	4037.9	4050.7	4061.3	4129.3	4271.6	4290.7	4528.6	4853.6	5257.2	5688.4	5998.5
15°	4063.4	4067.7	4021.0	4033.7	4148.4	4176.0	4411.8	4745.3	5197.7	5720.2	6113.2
17.5°	4278.0	4263.1	4148.4	4088.9	4169.6	4182.4	4388.4	4702.8	5170.1	5779.7	6232.2
20°	4615.7	4594.5	4396.9	4265.2	4312.0	4322.6	4464.9	4734.7	5197.7	5877.4	6417.0
22.5°	5036.3	5027.8	4728.3	4569.0	4566.9	4566.9	4641.2	4849.4	5280.6	6011.2	6610.3
25°	5624.7	5580.1	5189.2	4983.2	4925.8	4921.6	4913.1	5038.4	5386.8	6153.6	6839.7
27.5°	6227.9	6151.4	5803.1	5486.6	5363.4	5348.5	5293.3	5306.0	5522.7	6315.0	7100.9
30°	6769.6	6720.7	6393.6	6043.1	5896.5	5862.6	5709.6	5639.5	5750.0	6606.0	7517.2
32.5°	7183.8	7154.0	6899.1	6580.5	6363.9	6357.5	6134.4	6077.1	6104.7	6958.6	7993.1
35°	7519.4	7530.0	7400.4	7124.3	6875.8	6839.7	6691.0	6618.7	6538.0	7468.4	8592.1
37.5°	7978.2	8001.5	7993.1	7755.1	7451.4	7459.9	7425.9	7307.0	7092.4	8037.7	9256.9
40°	8483.7	8500.7	8498.6	8407.3	8247.9	8256.4	8243.7	8107.8	7787.0	8762.0	9996.1
42.5°	9182.6	9101.8	8891.6	8982.9	9076.3	9116.7	9203.8	9074.2	8634.5	9535.2	10690.7
45°	9964.2	9811.3	9335.5	9378.0	9724.2	9800.7	10280.7	10102.3	9554.3	10423.0	11508.5
47.5°	10457.0	10306.2	9904.8	9896.3	10355.1	10429.4	11279.1	11213.2	10391.2	11381.0	12506.8
50°	10896.7	10875.5	10423.0	10531.4	10979.6	11090.0	12366.6	12305.0	11226.0	12511.0	13594.3
52.5°	11548.8	11376.8	11015.7	11238.7	11831.3	11975.8	13445.7	13265.1	11992.8	13509.4	14650.0
55°	11841.9	11801.6	11780.4	11973.6	12787.2	12891.3	14495.0	14080.8	12647.0	14354.8	15452.9
57.5°	12625.7	12551.4	12761.7	12893.4	13913.0	14072.3	15591.0	14932.5	13220.5	15026.0	15843.8
60°	13641.1	13600.7	13794.0	14031.9	15170.4	15412.6	16840.0	15659.0	13681.4	15363.7	15629.2
62.5°	15157.7	15153.4	15117.3	15627.1	16952.6	17175.6	18273.8	16366.3	13753.7	15111.0	14520.5
65°	17332.8	17256.3	16942.0	17498.5	19170.2	19431.4	19767.0	16761.4	13318.2	13813.1	12226.4
67.5°	19607.7	19603.5	19348.6	20070.8	22354.2	22624.0	21634.1	16674.3	12109.6	11189.8	8683.4
70°	21493.9	21402.6	21727.6	23652.0	26421.9	26734.1	23267.6	15648.4	9645.6	7389.8	5159.5
72.5°	21946.4	21950.6	22626.1	26413.4	30328.1	30377.0	23856.0	12683.1	6455.2	4076.2	2580.8
74°	20553.0	20589.1	21636.3	26551.5	31056.7	30835.8	22352.1	9968.5	4365.1	2661.5	1860.7
75°	18760.2	18532.9	20047.4	25631.7	30300.5	30062.6	20591.2	7999.4	3330.6	2126.2	1629.2
77.5°	10030.1	10261.6	12598.1	19127.7	24616.4	24342.4	13961.8	3836.2	1799.1	1480.5	1172.5
80°	3570.6	3938.1	5535.4	10008.8	15782.2	15867.2	6663.4	1758.8	1266.0	1091.8	828.4
82.5°	1457.1	1497.5	2376.9	4441.5	8014.3	8090.8	2721.0	1045.1	904.9	751.9	494.9
85°	569.3	586.3	1051.4	1996.7	3419.8	3642.9	941.0	552.3	556.5	431.2	252.8
87.5°	191.2	216.7	431.2	664.8	1161.9	1138.5	274.0	163.6	199.7	186.9	78.6
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°	5854.1	5854.1	5854.1	5854.1	5854.1	5854.1	5854.1	5854.1	5854.1	5854.1	5854.1
2.5°	5873.2	5913.5	5941.2	5970.9	5998.5	6007.0	6000.6	6019.7	6021.9	6024.0	6026.1
5°	5907.2	5962.4	6015.5	6045.2	6058.0	6047.4	6011.2	5992.1	5975.1	5962.4	5966.6
7.5°	5953.9	6032.5	6081.3	6094.1	6060.1	6011.2	5922.0	5851.9	5807.3	5777.6	5775.5
10°	6026.1	6102.6	6142.9	6106.8	6013.4	5894.4	5754.2	5622.5	5522.7	5493.0	5490.8
12.5°	6117.5	6204.5	6202.4	6096.2	5932.7	5720.2	5493.0	5340.0	5204.1	5136.1	5163.7
15°	6236.4	6302.3	6240.7	6049.5	5790.3	5499.3	5219.0	5010.8	4857.9	4785.6	4789.9
17.5°	6374.5	6431.8	6268.3	5966.6	5590.7	5216.8	4891.8	4694.3	4573.2	4520.1	4515.9
20°	6546.5	6563.5	6268.3	5822.2	5333.7	4887.6	4577.5	4439.4	4371.4	4343.8	4352.3
22.5°	6731.3	6697.3	6234.3	5618.3	4995.9	4543.5	4335.3	4273.7	4239.7	4235.5	4239.7
25°	6939.5	6843.9	6164.2	5342.2	4643.3	4246.1	4125.0	4135.7	4142.0	4142.0	4156.9
27.5°	7194.4	7003.2	6047.4	4993.8	4231.2	3970.0	3936.0	4010.3	4044.3	4050.7	4061.3
30°	7530.0	7177.4	5854.1	4558.4	3880.8	3721.5	3780.9	3880.8	3919.0	3942.4	3938.1
32.5°	7929.3	7368.6	5592.8	4122.9	3598.3	3547.3	3619.5	3721.5	3763.9	3776.7	3759.7
35°	8398.8	7585.2	5248.7	3715.1	3351.9	3381.6	3466.6	3498.4	3536.7	3536.7	3545.2
37.5°	8904.3	7759.4	4828.1	3341.2	3160.7	3269.0	3330.6	3300.9	3283.9	3262.6	3273.3
40°	9418.3	7889.0	4282.2	2971.6	2969.5	3152.2	3169.2	3084.2	3016.2	2995.0	2984.4
42.5°	9866.5	7969.7	3789.4	2684.9	2789.0	3037.5	3050.2	2914.3	2806.0	2742.2	2721.0
45°	10395.4	8063.1	3307.2	2447.0	2621.2	2946.1	2978.0	2795.3	2636.0	2502.2	2468.2
47.5°	11119.7	8275.6	2927.0	2262.2	2500.1	2888.8	2933.4	2697.6	2487.3	2313.2	2285.5
50°	11937.5	8566.6	2631.8	2136.9	2406.6	2837.8	2893.0	2597.8	2349.3	2156.0	2134.7
52.5°	12687.3	8723.7	2376.9	2024.3	2315.3	2744.4	2839.9	2525.6	2213.3	1998.8	1979.7
55°	13097.3	8468.9	2126.2	1913.8	2190.0	2623.3	2765.6	2425.7	2081.6	1916.0	1888.3
57.5°	13152.5	7942.1	1899.0	1794.9	2058.3	2474.6	2627.5	2304.7	1996.7	1858.6	1835.2
60°	12725.6	7156.1	1722.7	1697.2	1924.4	2306.8	2472.5	2198.5	1909.6	1794.9	1771.5
62.5°	11663.5	6302.3	1599.5	1608.0	1788.5	2130.5	2357.8	2096.5	1826.7	1724.8	1703.5
65°	9836.8	5202.0	1480.5	1516.6	1667.4	1992.4	2253.7	2011.5	1743.9	1671.7	1652.6
67.5°	6833.3	3755.4	1382.8	1421.0	1552.7	1852.2	2132.6	1920.2	1650.4	1612.2	1582.5
70°	3783.1	2311.0	1268.1	1312.7	1433.8	1695.0	1996.7	1782.1	1514.5	1497.5	1455.0
72.5°	1988.2	1472.0	1138.5	1187.4	1272.3	1493.3	1788.5	1631.3	1380.7	1308.5	1253.2
74°	1552.7	1206.5	1051.4	1102.4	1159.8	1374.3	1665.3	1523.0	1285.1	1200.1	1157.6
75°	1353.1	1074.8	977.1	1042.9	1093.9	1293.6	1569.7	1446.5	1232.0	1151.3	1113.0
77.5°	955.9	805.0	798.7	877.3	904.9	1134.3	1414.7	1317.0	1098.2	1013.2	977.1
80°	671.2	603.2	633.0	681.8	720.1	1002.6	1312.7	1138.5	900.6	800.8	788.0
82.5°	437.6	395.1	452.4	497.0	509.8	739.2	1059.9	864.5	656.4	533.2	494.9
85°	201.8	197.5	259.1	252.8	250.6	361.1	628.7	505.5	378.1	282.5	265.5
87.5°	51.0	48.9	63.7	53.1	63.7	55.2	57.4	14.9	2.1	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)