

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: P456476

Luminaire Tested: **GALN-SA7D-727-U-T3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456476
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-12)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7D-727-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 44686 lumens
Efficiency: N/A
Efficacy: 103.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G5

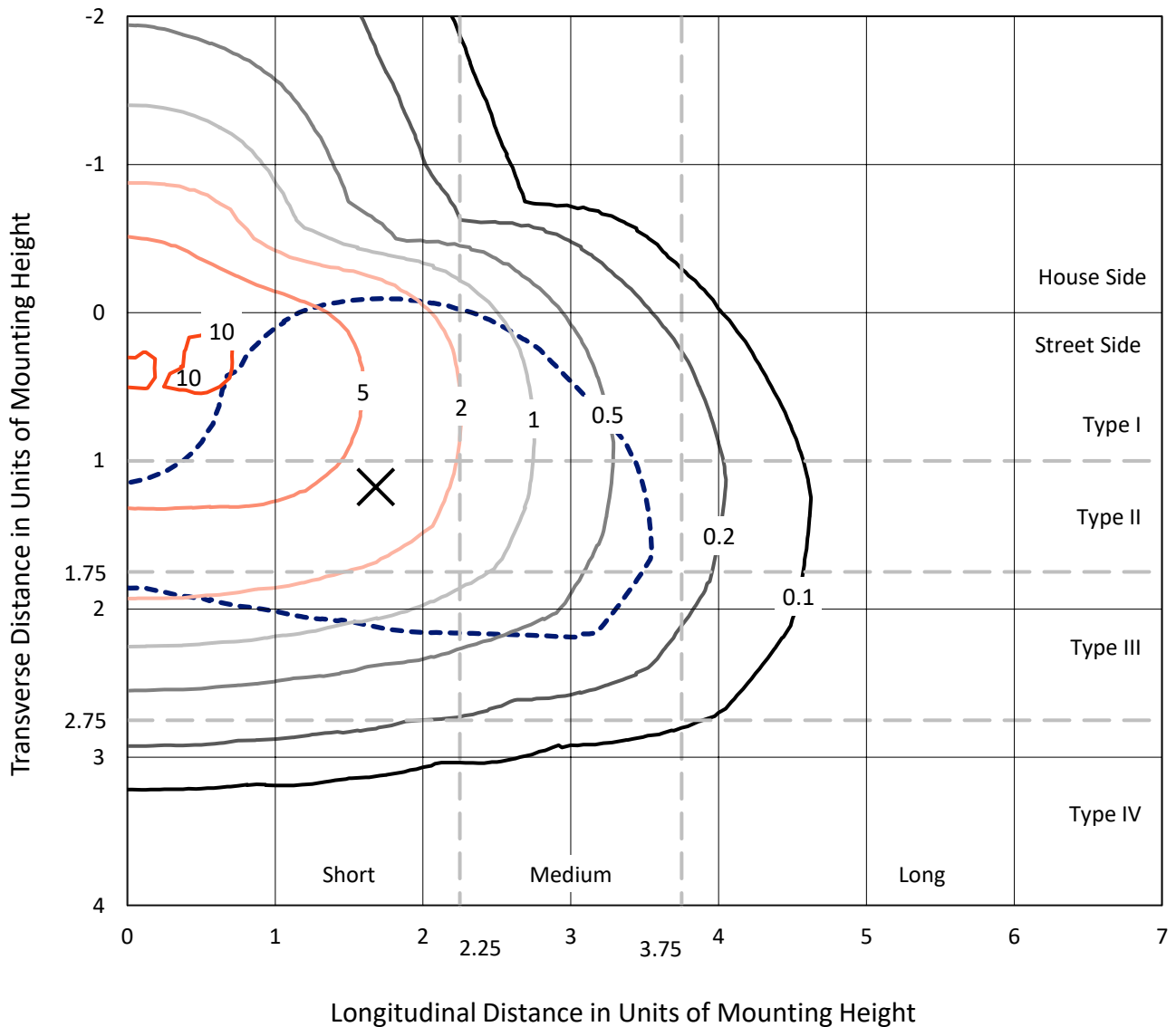
Input Watts (W): 433
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

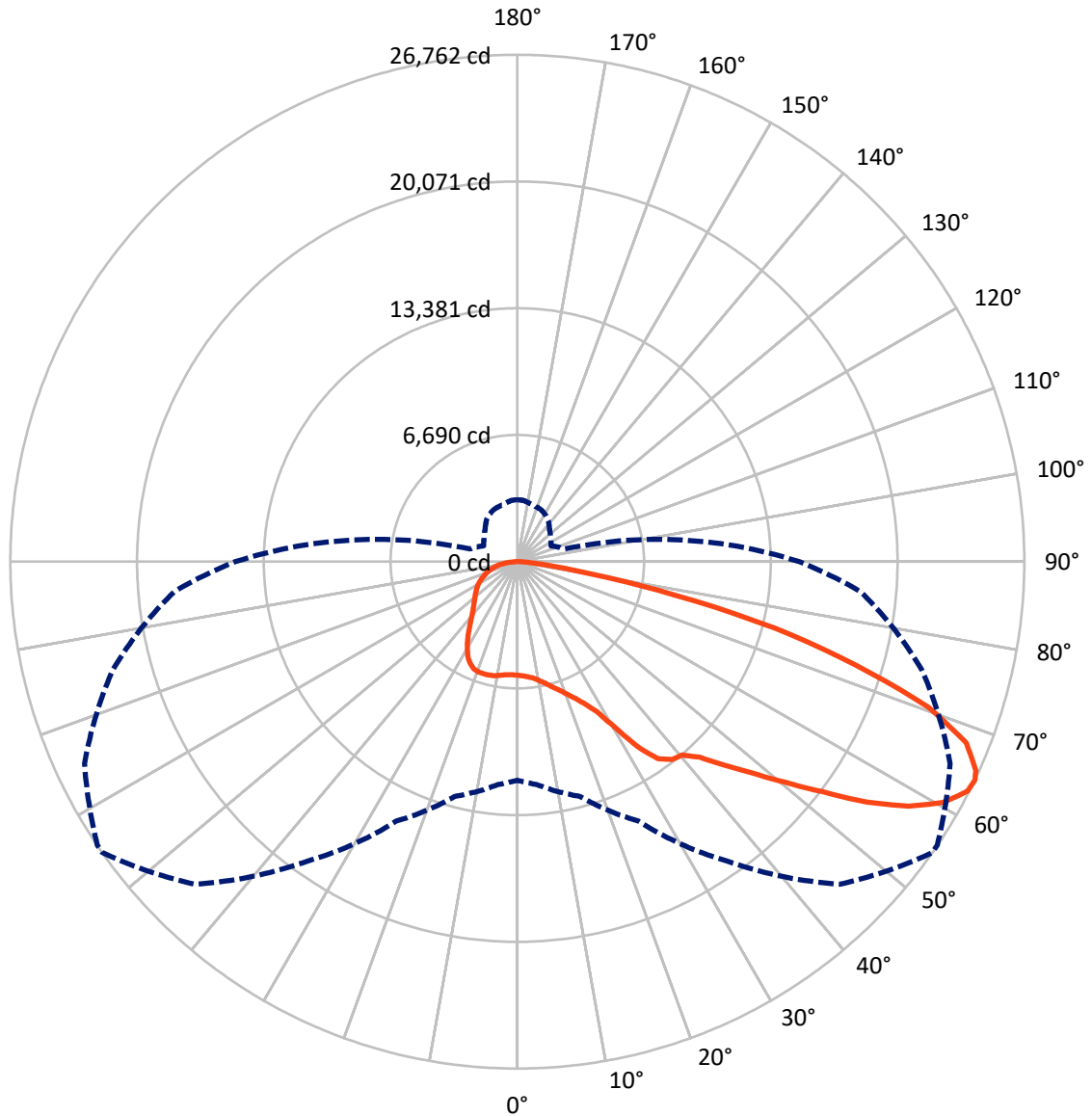
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 64-Deg Vertical



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10855.1	0.0	10855.1
	% Fixture	24.3	0.0	24.3
Street Side	Lumens	33830.9	0.0	33830.9
	% Fixture	75.7	0.0	75.7
Total	Lumens	44686.0	0.0	44686.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	583.2	1.3
10°-20°	1840.2	4.1
20°-30°	3276.0	7.3
30°-40°	5040.5	11.3
40°-50°	7145.3	16.0
50°-60°	10342.7	23.1
60°-70°	10703.6	24.0
70°-80°	5012.5	11.2
80°-90°	742.0	1.7
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°	44686.0	100.0
0°-180°	44686.0	100.0



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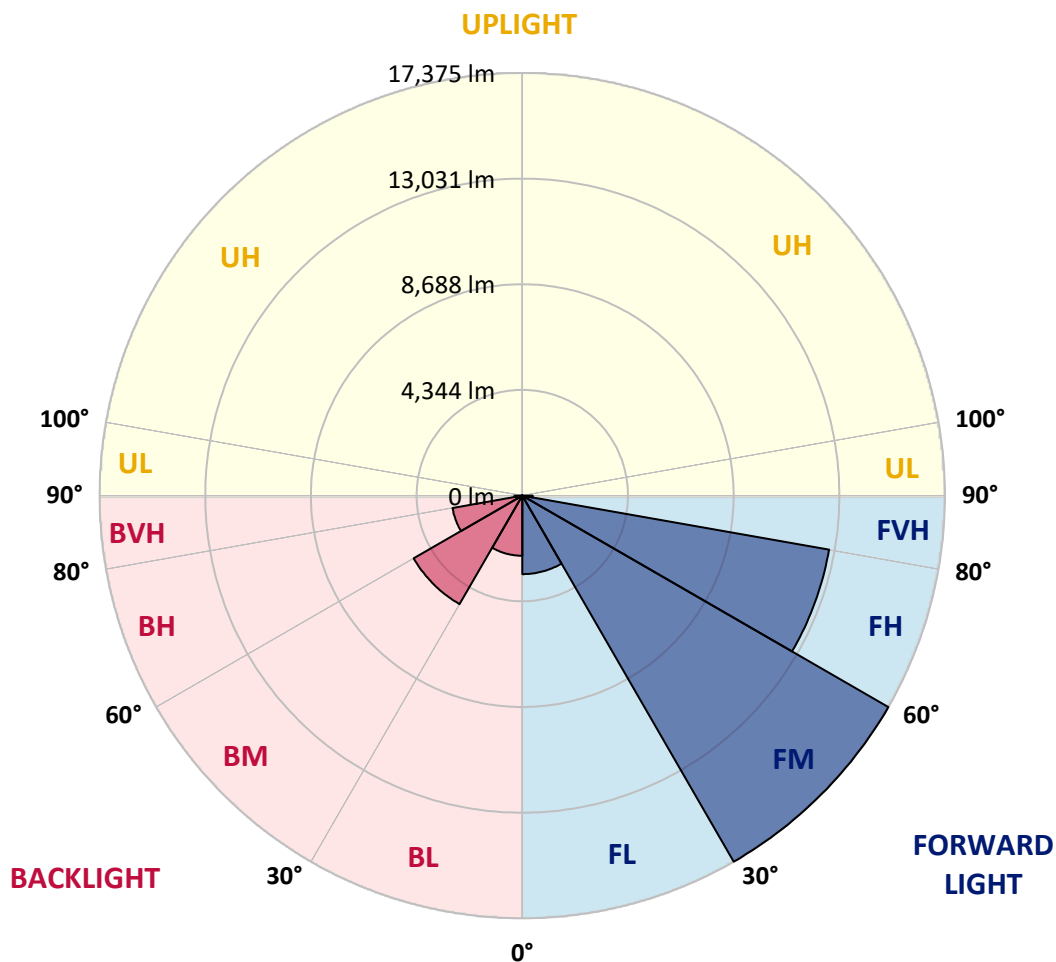
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3227.0	7.2			
FM	(30°-60°)	17375.1	38.9			
FH	(60°-80°)	12803.8	28.7			G5
FVH	(80°-90°)	424.9	1.0			G3/500
BL	(0°-30°)	2472.4	5.5	B3/2500		
BM	(30°-60°)	5153.4	11.5	B4/8500		
BH	(60°-80°)	2912.2	6.5	B4/5000		G4/5000
BVH	(80°-90°)	317.2	0.7			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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	5995.5	5995.5	5995.5	5995.5	5995.5	5995.5	5995.5	5995.5	5995.5	5995.5	5995.5
2.5°	6062.8	6060.3	6067.7	6060.3	6065.3	6047.8	6040.3	6045.3	6037.9	6025.4	6003.0
5°	6137.5	6135.0	6137.5	6127.5	6132.5	6122.5	6105.1	6110.1	6097.6	6070.2	6037.9
7.5°	6264.5	6254.6	6254.6	6252.1	6242.1	6227.2	6214.7	6209.7	6197.3	6162.4	6112.6
10°	6428.9	6428.9	6431.4	6411.5	6423.9	6396.5	6384.1	6381.6	6339.3	6294.4	6224.7
12.5°	6645.6	6658.1	6650.6	6640.6	6635.7	6625.7	6583.4	6593.3	6546.0	6468.8	6384.1
15°	6914.6	6934.6	6922.1	6917.1	6904.7	6867.3	6849.9	6842.4	6780.1	6668.0	6556.0
17.5°	7270.8	7245.9	7236.0	7223.5	7171.2	7143.8	7113.9	7108.9	7054.1	6922.1	6747.8
20°	7582.2	7617.1	7597.1	7584.7	7532.4	7480.1	7457.7	7450.2	7402.9	7258.4	6979.4
22.5°	7953.3	7960.8	7968.3	7938.4	7913.5	7873.6	7833.8	7821.3	7803.9	7654.4	7313.2
25°	8349.4	8379.3	8354.4	8324.5	8294.6	8292.1	8329.5	8324.5	8317.0	8172.5	7756.6
27.5°	8994.5	9021.9	9029.4	8997.0	8882.4	8892.4	8977.1	9004.5	9119.1	8879.9	8327.0
30°	9358.2	9385.6	9447.9	9569.9	9751.7	9911.2	10115.4	10177.7	10287.3	9836.4	9004.5
32.5°	9582.4	9592.3	9704.4	9931.1	10476.6	11071.9	11627.4	11649.8	11719.5	11086.8	9624.7
35°	9936.1	9943.5	10033.2	10282.3	10922.4	11913.8	12773.2	12800.6	12743.3	11475.4	9913.6
37.5°	10372.0	10391.9	10449.2	10655.9	11420.6	12618.7	13248.9	13229.0	12720.8	11784.3	10424.3
40°	11007.1	11007.1	10939.9	11218.9	11946.2	13022.2	13415.8	13380.9	13246.4	12678.5	11201.4
42.5°	11567.6	11557.6	11717.0	11906.3	12603.8	13645.0	14115.7	14173.0	14394.7	13801.9	12085.7
45°	12297.4	12342.2	12431.9	12775.6	13722.2	14708.6	15316.3	15371.1	15685.0	15124.5	13119.4
47.5°	13034.7	13049.6	13331.1	13789.4	15107.1	16150.8	16648.9	16738.6	17025.1	16671.4	14232.8
50°	13557.8	13699.8	14150.6	14873.0	16534.4	17909.3	18297.9	18405.0	18910.6	18355.2	15530.5
52.5°	14110.8	14250.2	14800.7	15901.7	18173.4	19707.7	20186.0	20258.2	20783.8	20058.9	16858.2
55°	14584.0	14713.5	15338.7	16813.3	19478.6	21543.5	22410.3	22325.6	22577.2	21371.6	17881.9
57.5°	14661.2	14765.8	15553.0	17396.2	20460.0	23117.7	24360.7	24410.5	24119.0	22353.0	18726.3
60°	14063.4	14277.6	15181.8	17333.9	20900.8	24213.7	25815.3	25850.2	25023.2	22856.2	19062.6
62.5°	13004.8	12982.4	14075.9	16332.6	20283.1	24462.8	26672.2	26634.8	25376.9	22614.6	18736.3
64°	11542.7	11811.7	12832.9	15102.1	19286.8	24079.2	26761.9	26741.9	25207.6	22111.4	18180.8
65°	10650.9	10636.0	11644.8	14095.8	18295.4	23501.3	26602.4	26575.0	24853.9	21660.6	17749.9
67.5°	7689.3	7724.2	8720.5	10877.6	14873.0	21242.1	25563.7	25461.6	23459.0	20166.0	16110.9
70°	4657.9	4677.8	5460.0	7216.0	10675.8	17172.0	23043.0	23048.0	21324.3	17934.2	13712.2
72.5°	2453.5	2505.8	2819.7	4097.5	6483.7	12048.3	18693.9	19137.3	18307.9	15306.4	10832.8
75°	1365.0	1372.5	1594.2	2020.1	3307.9	6742.8	14051.0	14178.0	14494.3	12319.8	8010.6
77.5°	1041.2	1056.1	1125.9	1305.2	1800.9	3126.0	8503.8	9141.5	10215.0	8685.6	4570.7
80°	844.4	859.3	919.1	1026.2	1198.1	1482.1	3950.5	4294.3	5467.4	3855.9	1783.5
82.5°	657.6	647.6	724.8	794.6	871.8	876.8	1621.6	1793.4	2226.8	1658.9	772.2
85°	488.2	488.2	550.5	535.5	562.9	513.1	714.9	789.6	891.7	704.9	358.7
87.5°	194.3	214.2	361.2	323.8	251.6	201.8	264.0	279.0	308.9	276.5	149.5
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°	5995.5	5995.5	5995.5	5995.5	5995.5	5995.5	5995.5	5995.5	5995.5	5995.5	5995.5
2.5°	6005.5	6012.9	5995.5	5983.1	5978.1	5970.6	5963.1	5965.6	5975.6	5985.5	5983.1
5°	6035.4	6037.9	6008.0	5993.0	5983.1	5973.1	5973.1	5980.6	6000.5	6015.4	6015.4
7.5°	6110.1	6110.1	6067.7	6040.3	6025.4	6008.0	6003.0	6005.5	6020.4	6040.3	6042.8
10°	6227.2	6217.2	6162.4	6120.1	6092.7	6050.3	6012.9	5993.0	6000.5	6012.9	6012.9
12.5°	6369.1	6341.7	6272.0	6214.7	6147.5	6067.7	5990.5	5950.7	5948.2	5960.6	5955.7
15°	6521.1	6491.2	6394.1	6289.4	6172.4	6055.3	5963.1	5905.8	5861.0	5848.6	5876.0
17.5°	6697.9	6635.7	6501.2	6356.7	6182.3	6030.4	5885.9	5768.8	5689.1	5666.7	5674.2
20°	6912.2	6830.0	6648.1	6421.5	6174.9	5940.7	5716.5	5559.6	5430.1	5390.2	5395.2
22.5°	7208.6	7066.6	6800.1	6453.8	6112.6	5771.3	5460.0	5255.7	5098.8	5036.5	5073.9
25°	7544.8	7390.4	6944.5	6446.4	5950.7	5499.8	5156.1	4889.6	4747.6	4655.4	4675.4
27.5°	8008.1	7734.1	7099.0	6379.1	5719.0	5168.5	4770.0	4518.4	4388.9	4341.6	4364.0
30°	8601.0	8180.0	7265.9	6197.3	5352.9	4750.1	4381.4	4217.0	4139.8	4080.0	4100.0
32.5°	9029.4	8493.9	7303.2	5890.9	4956.8	4369.0	4117.4	3995.3	3910.7	3853.4	3865.8
35°	9335.8	8760.4	7285.8	5514.8	4543.3	4055.1	3908.2	3808.5	3671.5	3547.0	3524.6
37.5°	9746.8	9094.1	7158.7	5103.8	4134.8	3843.4	3738.8	3554.5	3357.7	3190.8	3183.3
40°	10376.9	9485.2	6887.2	4620.6	3786.1	3686.5	3559.4	3320.3	3108.6	2974.1	2964.1
42.5°	11027.1	9846.4	6518.6	4112.4	3499.7	3522.1	3367.6	3131.0	3001.5	2914.3	2904.3
45°	11821.6	10237.5	6120.1	3671.5	3287.9	3367.6	3200.8	3063.8	2986.5	2929.3	2914.3
47.5°	12681.0	10638.5	5671.7	3275.5	3108.6	3225.7	3131.0	3068.7	3026.4	2986.5	2969.1
50°	13607.6	11086.8	5250.7	2956.7	2946.7	3078.7	3123.5	3101.1	3076.2	3063.8	3048.8
52.5°	14623.9	11545.2	4897.0	2732.5	2804.7	2974.1	3126.0	3143.5	3143.5	3136.0	3126.0
55°	15311.3	11864.0	4538.4	2550.6	2660.2	2889.4	3121.1	3188.3	3213.2	3203.3	3193.3
57.5°	15819.5	12038.4	4087.5	2393.7	2538.2	2807.2	3093.7	3193.3	3218.2	3230.7	3225.7
60°	15924.1	11876.4	3497.2	2229.3	2406.2	2687.6	2994.0	3118.6	3150.9	3228.2	3235.6
62.5°	15453.3	11378.3	2909.3	2067.4	2244.3	2505.8	2859.5	3033.9	3098.6	3218.2	3230.7
64°	14875.4	10820.3	2583.0	1965.3	2139.7	2403.7	2792.3	3011.5	3096.1	3255.6	3265.5
65°	14452.0	10414.3	2378.8	1900.5	2072.4	2336.4	2754.9	3018.9	3118.6	3312.9	3327.8
67.5°	12892.7	9016.9	1967.8	1748.6	1913.0	2221.9	2762.4	3081.2	3113.6	3335.3	3332.8
70°	10668.4	7178.7	1649.0	1609.1	1758.6	2129.7	2732.5	2981.6	2984.1	3131.0	3096.1
72.5°	7988.2	5305.5	1429.8	1464.6	1586.7	1910.5	2580.5	2847.1	2804.7	2824.6	2789.8
75°	5487.4	3509.6	1230.5	1310.2	1407.3	1688.8	2366.3	2585.5	2518.3	2493.4	2468.4
77.5°	2929.3	1940.4	1023.7	1158.3	1223.0	1459.6	2064.9	2276.7	2206.9	2109.8	2077.4
80°	1185.7	914.1	824.5	959.0	996.3	1175.7	1718.7	1850.7	1798.4	1629.0	1574.2
82.5°	595.3	548.0	647.6	754.7	757.2	839.4	1277.8	1402.4	1285.3	1078.5	1031.2
85°	311.4	321.3	445.9	530.6	468.3	453.3	767.2	849.4	779.6	677.5	610.3
87.5°	112.1	129.5	234.1	231.7	164.4	87.2	169.4	82.2	44.8	27.4	34.9
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)