

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: P647030

Luminaire Tested: **GALN-SA6C-835-U-T4FT**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P647030
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-SA6C-835-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3500K, 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: 32571.2 lumens
Efficiency: N/A
Efficacy: 101.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 321
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

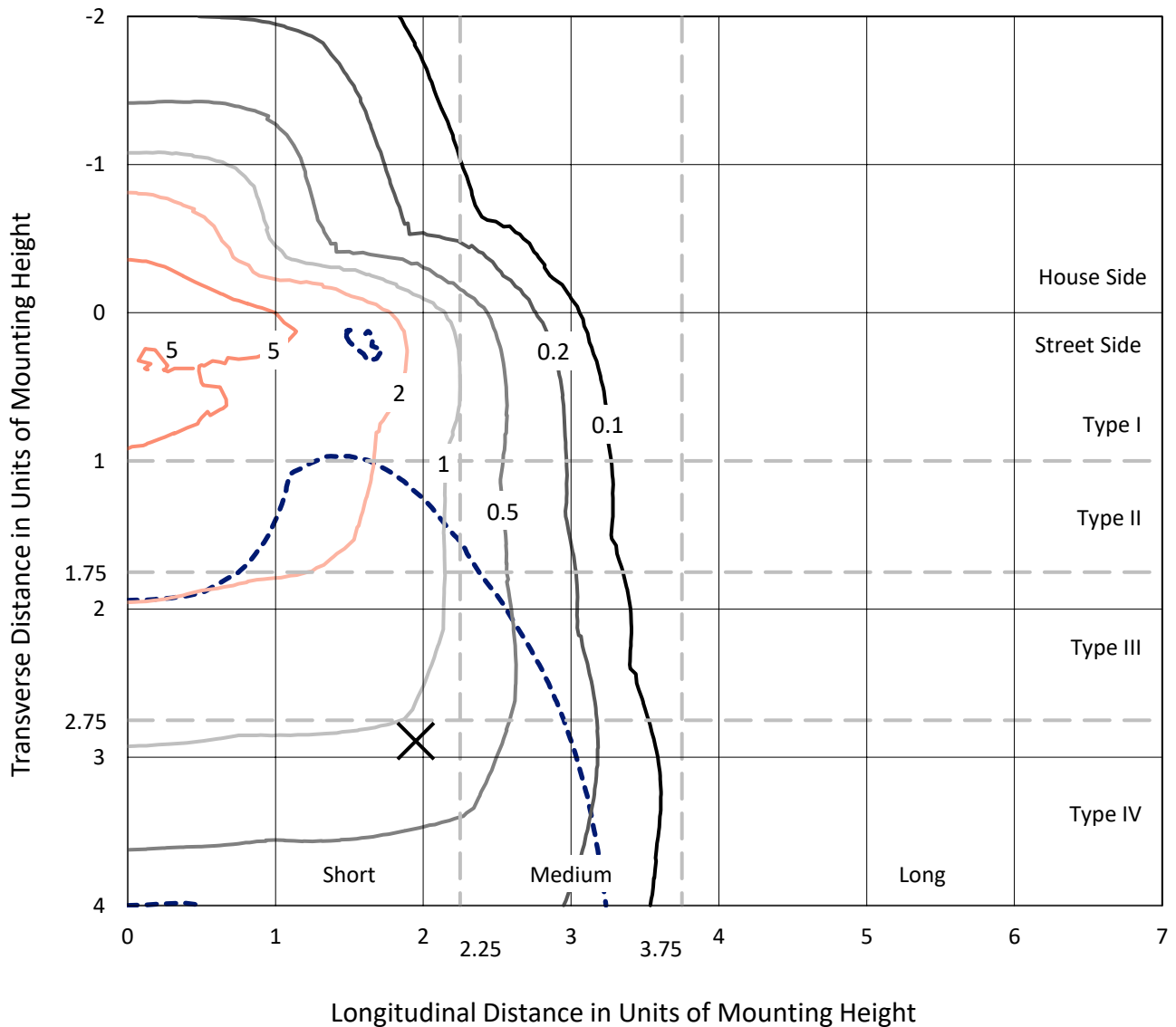




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Iso-Footcandle Lines of Horizontal Illumination

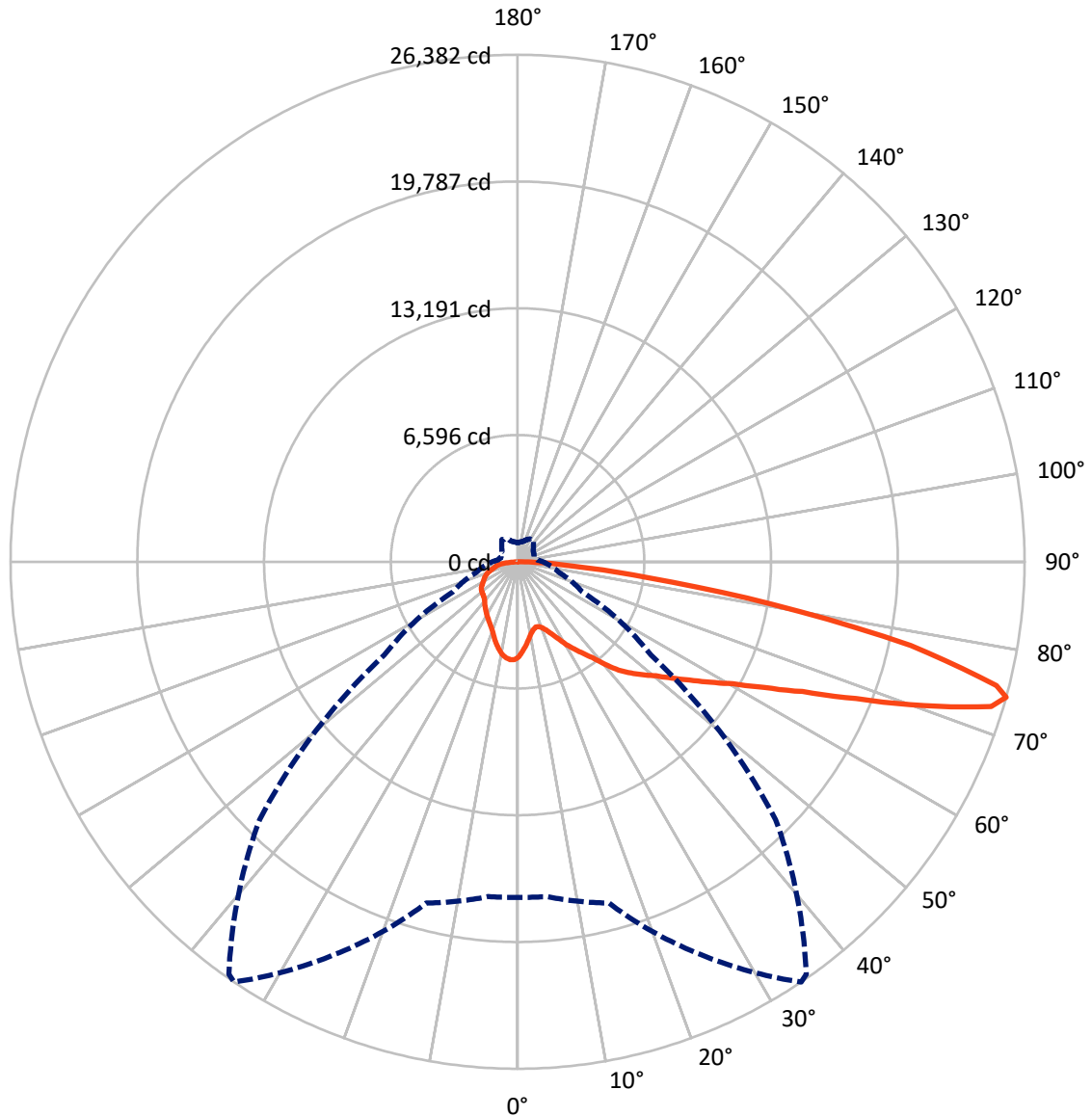
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 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	6931.4	0.0	6931.4
	% Fixture	21.3	0.0	21.3
Street Side	Lumens	25639.8	0.0	25639.8
	% Fixture	78.7	0.0	78.7
Total	Lumens	32571.2	0.0	32571.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	452.3	1.4
10°-20°	1238.1	3.8
20°-30°	2041.3	6.3
30°-40°	3057.6	9.4
40°-50°	4444.9	13.6
50°-60°	6208.4	19.1
60°-70°	7772.6	23.9
70°-80°	6427.4	19.7
80°-90°	928.7	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°	32571.2	100.0
0°-180°	32571.2	100.0

Coefficient of Utilization



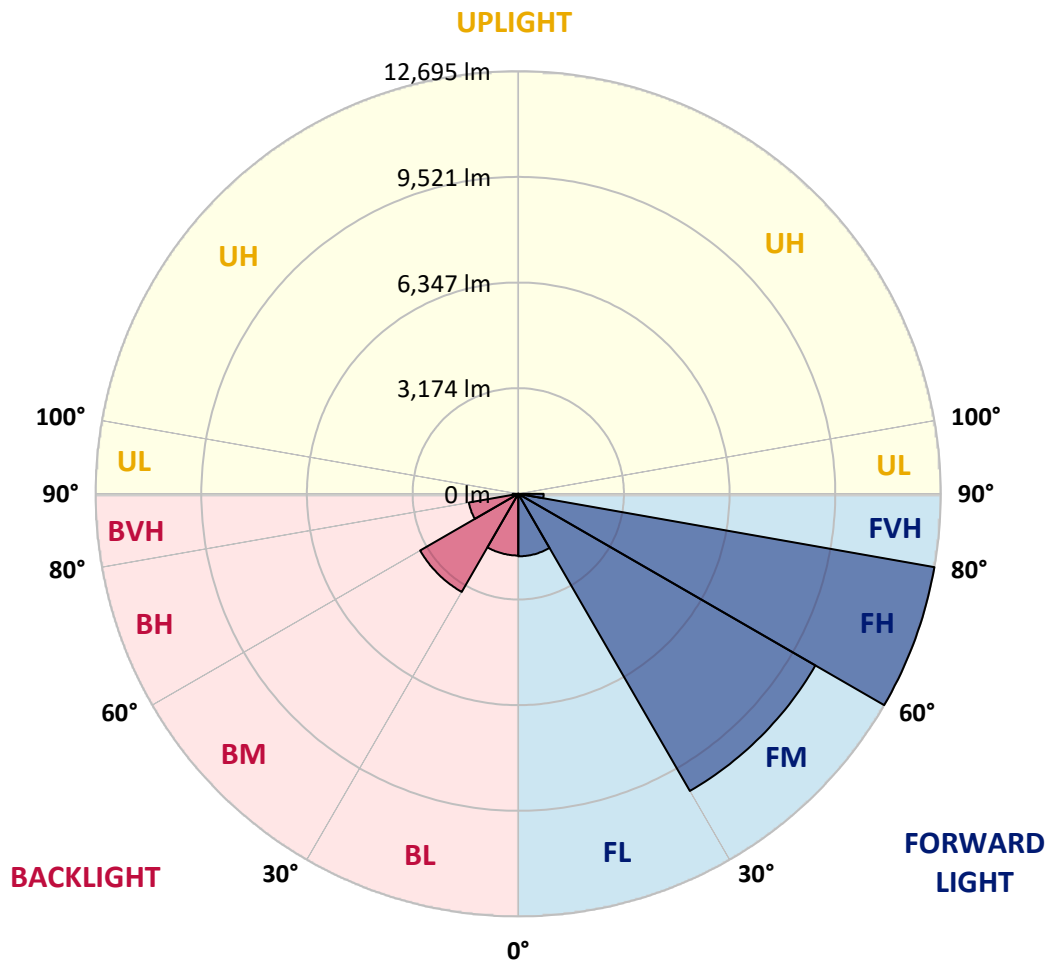
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1877.6	5.8			
FM (30°-60°)	10306.9	31.6			
FH (60°-80°)	12694.5	39.0			G5
FVH (80°-90°)	760.8	2.3			G5
BL (0°-30°)	1854.0	5.7	B3/2500		
BM (30°-60°)	3404.0	10.5	B3/5000		
BH (60°-80°)	1505.5	4.6	B3/2500		G3/2500
BVH (80°-90°)	167.9	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°	4973.0	4973.0	4973.0	4973.0	4973.0	4973.0	4973.0	4973.0	4973.0	4973.0	4973.0
2.5°	4595.9	4619.3	4631.9	4677.1	4687.9	4702.3	4740.2	4790.7	4855.7	4913.4	4964.0
5°	4213.3	4249.4	4271.0	4310.7	4388.3	4395.6	4496.6	4612.1	4743.8	4866.5	4967.6
7.5°	3850.6	3890.3	3908.3	3980.5	4083.4	4099.6	4247.6	4429.8	4650.0	4835.9	4991.0
10°	3578.2	3598.0	3637.7	3691.8	3814.5	3825.3	4018.4	4262.0	4547.1	4821.4	5030.7
12.5°	3430.2	3441.1	3450.1	3507.8	3628.7	3644.9	3847.0	4123.1	4465.9	4832.2	5095.7
15°	3451.9	3455.5	3415.8	3426.6	3524.0	3547.5	3747.8	4031.0	4415.4	4859.3	5193.1
17.5°	3634.1	3621.5	3524.0	3473.5	3542.1	3552.9	3727.9	3995.0	4391.9	4909.8	5294.2
20°	3921.0	3902.9	3735.1	3623.3	3663.0	3672.0	3792.9	4022.0	4415.4	4992.8	5451.2
22.5°	4278.3	4271.0	4016.6	3881.3	3879.5	3879.5	3942.6	4119.5	4485.8	5106.5	5615.4
25°	4778.1	4740.2	4408.2	4233.1	4184.4	4180.8	4173.6	4280.1	4576.0	5227.4	5810.3
27.5°	5290.6	5225.6	4929.7	4660.8	4556.2	4543.5	4496.6	4507.4	4691.5	5364.6	6032.2
30°	5750.7	5709.2	5431.3	5133.6	5009.1	4980.2	4850.3	4790.7	4884.6	5611.8	6385.8
32.5°	6102.5	6077.3	5860.8	5590.1	5406.1	5400.7	5211.2	5162.5	5185.9	5911.3	6790.0
35°	6387.6	6396.6	6286.6	6052.0	5840.9	5810.3	5684.0	5622.6	5554.0	6344.3	7298.9
37.5°	6777.4	6797.2	6790.0	6587.9	6329.9	6337.1	6308.2	6207.2	6025.0	6827.9	7863.7
40°	7206.9	7221.3	7219.5	7141.9	7006.6	7013.8	7003.0	6887.5	6615.0	7443.2	8491.6
42.5°	7800.5	7732.0	7553.3	7630.9	7710.3	7744.6	7818.6	7708.5	7335.0	8100.1	9081.6
45°	8464.5	8334.6	7930.5	7966.6	8260.6	8325.6	8733.4	8581.8	8116.3	8854.3	9776.4
47.5°	8883.1	8755.0	8414.0	8406.8	8796.5	8859.7	9581.5	9525.5	8827.2	9668.1	10624.4
50°	9256.7	9238.6	8854.3	8946.3	9327.0	9420.9	10505.4	10453.0	9536.4	10628.1	11548.3
52.5°	9810.6	9664.5	9357.7	9547.2	10050.6	10173.4	11422.0	11268.6	10187.8	11476.1	12445.1
55°	10059.7	10025.4	10007.3	10171.5	10862.6	10951.0	12313.4	11961.5	10743.5	12194.3	13127.2
57.5°	10725.5	10662.3	10840.9	10952.8	11819.0	11954.3	13244.4	12685.1	11230.7	12764.5	13459.1
60°	11588.0	11553.7	11717.9	11920.0	12887.2	13092.9	14305.4	13302.2	11622.3	13051.4	13276.9
62.5°	12876.4	12872.8	12842.1	13275.1	14401.1	14590.6	15523.4	13903.0	11683.6	12836.7	12335.0
65°	14724.1	14659.1	14392.1	14864.8	16284.9	16506.8	16791.9	14238.7	11313.7	11734.1	10386.3
67.5°	16656.6	16653.0	16436.5	17050.0	18989.7	19218.9	18378.0	14164.7	10287.0	9505.7	7376.5
70°	18258.9	18181.3	18457.4	20092.2	22445.2	22710.4	19765.7	13293.1	8193.9	6277.5	4382.9
72.5°	18643.3	18646.9	19220.7	22438.0	25763.5	25805.0	20265.4	10774.2	5483.7	3462.7	2192.4
74°	17459.6	17490.3	18379.8	22555.3	26382.4	26194.8	18987.9	8468.1	3708.1	2260.9	1580.6
75°	15936.6	15743.5	17030.1	21774.0	25740.0	25537.9	17492.1	6795.4	2829.4	1806.2	1384.0
77.5°	8520.4	8717.1	10702.0	16248.8	20911.4	20678.6	11860.5	3258.8	1528.3	1257.7	996.1
80°	3033.3	3345.4	4702.3	8502.4	13406.8	13479.0	5660.5	1494.0	1075.5	927.5	703.8
82.5°	1237.8	1272.1	2019.1	3773.0	6808.1	6873.0	2311.5	887.8	768.7	638.8	420.4
85°	483.6	498.0	893.2	1696.1	2905.1	3094.6	799.4	469.2	472.8	366.3	214.7
87.5°	162.4	184.1	366.3	564.8	987.0	967.2	232.8	138.9	169.6	158.8	66.8
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°	4973.0	4973.0	4973.0	4973.0	4973.0	4973.0	4973.0	4973.0	4973.0	4973.0	4973.0
2.5°	4989.2	5023.5	5047.0	5072.2	5095.7	5102.9	5097.5	5113.7	5115.5	5117.4	5119.2
5°	5018.1	5065.0	5110.1	5135.4	5146.2	5137.2	5106.5	5090.3	5075.8	5065.0	5068.6
7.5°	5057.8	5124.6	5166.1	5176.9	5148.0	5106.5	5030.7	4971.2	4933.3	4908.0	4906.2
10°	5119.2	5184.1	5218.4	5187.7	5108.3	5007.3	4888.2	4776.3	4691.5	4666.2	4664.4
12.5°	5196.7	5270.7	5268.9	5178.7	5039.8	4859.3	4666.2	4536.3	4420.8	4363.1	4386.5
15°	5297.8	5353.7	5301.4	5139.0	4918.9	4671.6	4433.4	4256.6	4126.7	4065.3	4068.9
17.5°	5415.1	5463.8	5324.9	5068.6	4749.2	4431.6	4155.6	3987.7	3884.9	3839.8	3836.2
20°	5561.3	5575.7	5324.9	4945.9	4530.9	4151.9	3888.5	3771.2	3713.5	3690.0	3697.2
22.5°	5718.2	5689.4	5296.0	4772.7	4244.0	3859.6	3682.8	3630.5	3601.6	3598.0	3601.6
25°	5895.1	5813.9	5236.4	4538.1	3944.4	3607.0	3504.2	3513.2	3518.6	3518.6	3531.3
27.5°	6111.5	5949.2	5137.2	4242.2	3594.4	3372.5	3343.6	3406.8	3435.6	3441.1	3450.1
30°	6396.6	6097.1	4973.0	3872.2	3296.7	3161.4	3211.9	3296.7	3329.2	3349.0	3345.4
32.5°	6735.9	6259.5	4751.0	3502.4	3056.7	3013.4	3074.8	3161.4	3197.5	3208.3	3193.9
35°	7134.7	6443.6	4458.7	3156.0	2847.4	2872.7	2944.8	2971.9	3004.4	3004.4	3011.6
37.5°	7564.1	6591.5	4101.4	2838.4	2685.0	2777.0	2829.4	2804.1	2789.7	2771.6	2780.6
40°	8000.8	6701.6	3637.7	2524.4	2522.6	2677.8	2692.2	2620.0	2562.3	2544.2	2535.2
42.5°	8381.5	6770.2	3219.1	2280.8	2369.2	2580.3	2591.2	2475.7	2383.6	2329.5	2311.5
45°	8830.8	6849.6	2809.5	2078.7	2226.6	2502.7	2529.8	2374.6	2239.3	2125.6	2096.7
47.5°	9446.1	7030.0	2486.5	1921.7	2123.8	2454.0	2491.9	2291.6	2113.0	1965.0	1941.5
50°	10140.9	7277.2	2235.7	1815.2	2044.4	2410.7	2457.6	2206.8	1995.7	1831.5	1813.4
52.5°	10777.8	7410.8	2019.1	1719.6	1966.8	2331.3	2412.5	2145.4	1880.2	1697.9	1681.7
55°	11126.0	7194.2	1806.2	1625.8	1860.3	2228.5	2349.4	2060.6	1768.3	1627.6	1604.1
57.5°	11172.9	6746.7	1613.1	1524.7	1748.5	2102.1	2232.1	1957.8	1696.1	1578.8	1559.0
60°	10810.3	6079.1	1463.3	1441.7	1634.8	1959.6	2100.3	1867.6	1622.1	1524.7	1504.8
62.5°	9908.1	5353.7	1358.7	1365.9	1519.3	1809.8	2002.9	1780.9	1551.8	1465.2	1447.1
65°	8356.3	4419.0	1257.7	1288.3	1416.4	1692.5	1914.5	1708.8	1481.4	1420.0	1403.8
67.5°	5804.8	3190.2	1174.7	1207.2	1319.0	1573.4	1811.6	1631.2	1402.0	1369.5	1344.3
70°	3213.7	1963.2	1077.3	1115.1	1218.0	1439.9	1696.1	1513.9	1286.5	1272.1	1236.0
72.5°	1688.9	1250.5	967.2	1008.7	1080.9	1268.5	1519.3	1385.8	1172.9	1111.5	1064.6
74°	1319.0	1024.9	893.2	936.5	985.2	1167.5	1414.6	1293.8	1091.7	1019.5	983.4
75°	1149.4	913.1	830.1	886.0	929.3	1098.9	1333.4	1228.8	1046.6	978.0	945.6
77.5°	812.0	683.9	678.5	745.3	768.7	963.6	1201.7	1118.8	932.9	860.7	830.1
80°	570.2	512.5	537.7	579.2	611.7	851.7	1115.1	967.2	765.1	680.3	669.5
82.5°	371.7	335.6	384.4	422.3	433.1	628.0	900.4	734.4	557.6	452.9	420.4
85°	171.4	167.8	220.1	214.7	212.9	306.8	534.1	429.5	321.2	240.0	225.6
87.5°	43.3	41.5	54.1	45.1	54.1	46.9	48.7	12.6	1.8	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)