

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: P648623

Luminaire Tested: **GALN-SA8B-835-U-T3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P648623
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-SA8B-835-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35677.4 lumens
Efficiency: N/A
Efficacy: 109.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

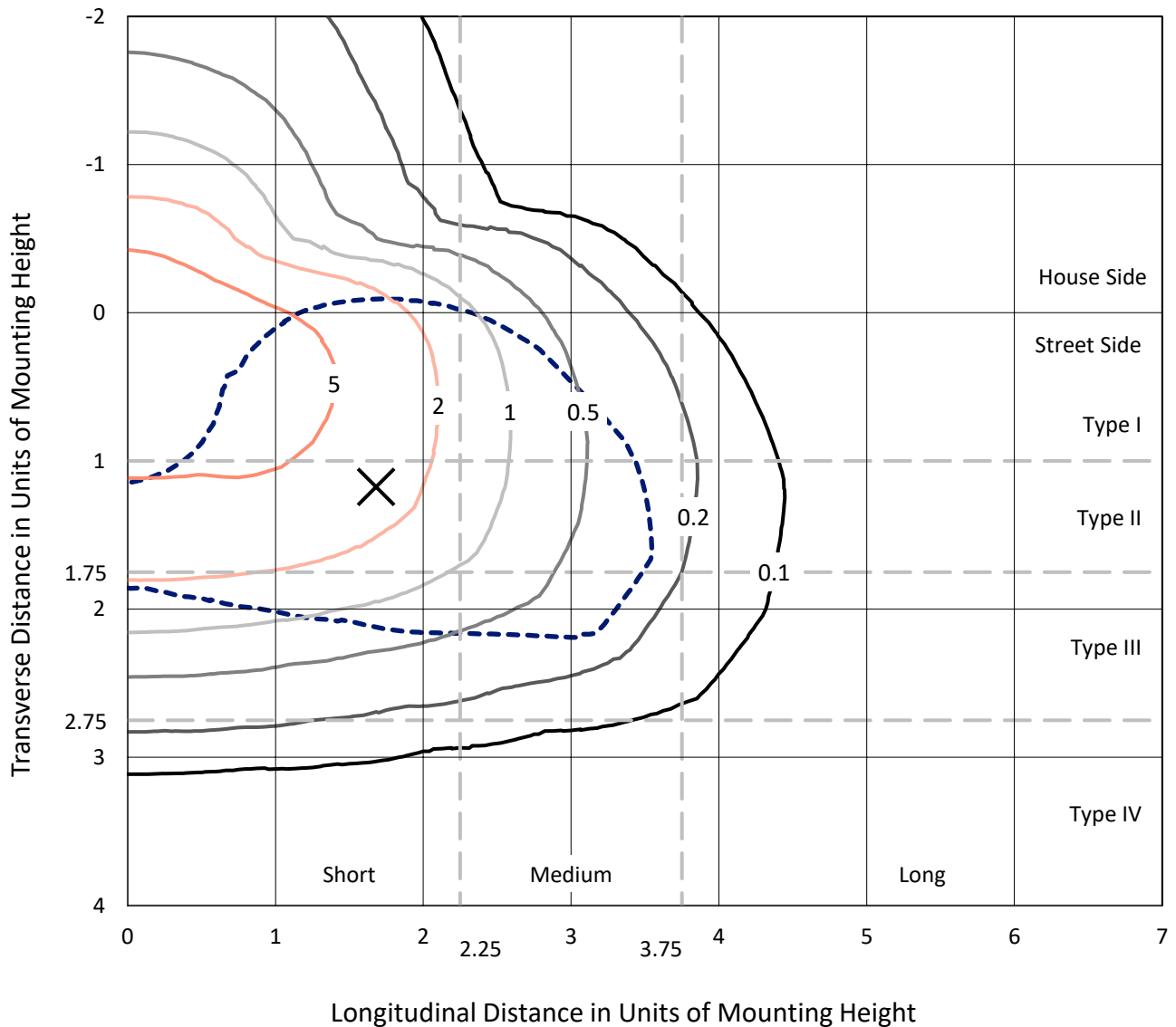
Input Watts (W): 325
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

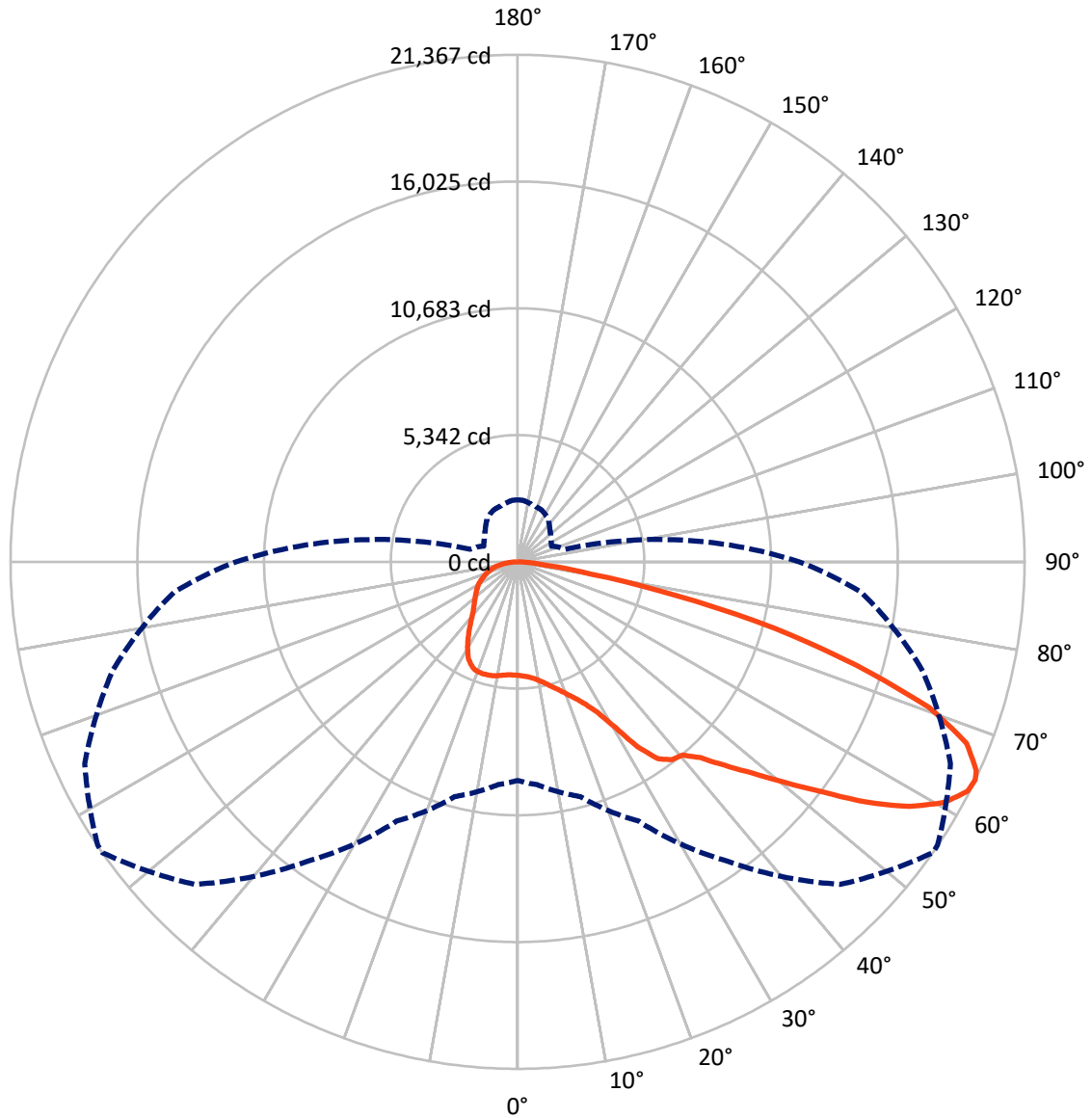
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.8 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	8666.7	0.0	8666.7
	% Fixture	24.3	0.0	24.3
Street Side	Lumens	27010.7	0.0	27010.7
	% Fixture	75.7	0.0	75.7
Total	Lumens	35677.4	0.0	35677.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	465.6	1.3
10°-20°	1469.2	4.1
20°-30°	2615.6	7.3
30°-40°	4024.3	11.3
40°-50°	5704.8	16.0
50°-60°	8257.6	23.1
60°-70°	8545.7	24.0
70°-80°	4002.0	11.2
80°-90°	592.4	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°	35677.4	100.0
0°-180°	35677.4	100.0

Coefficient of Utilization

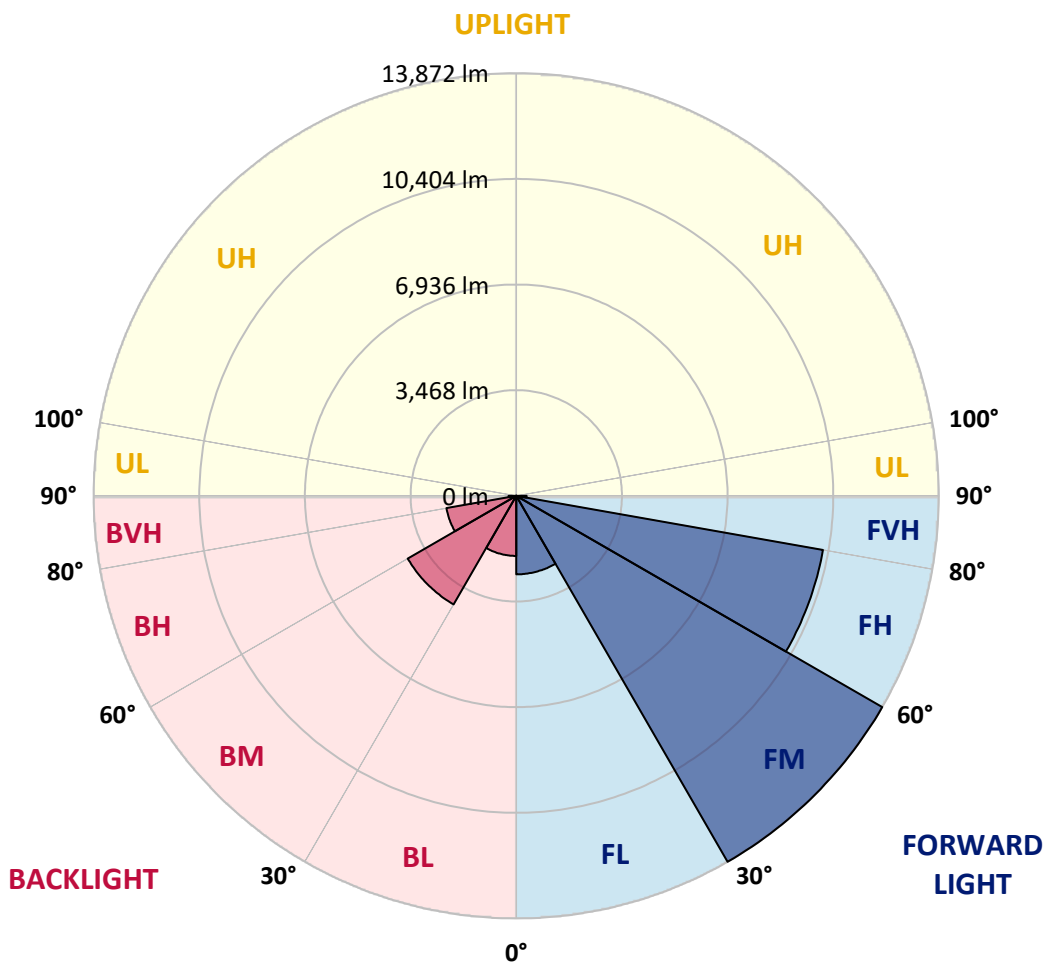


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2576.5	7.2			
FM (30°-60°)	13872.3	38.9			
FH (60°-80°)	10222.6	28.7			G4/12000
FVH (80°-90°)	339.2	1.0			G3/500
BL (0°-30°)	1973.9	5.5	B3/2500		
BM (30°-60°)	4114.4	11.5	B3/5000		
BH (60°-80°)	2325.1	6.5	B3/2500		G3/2500
BVH (80°-90°)	253.2	0.7			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	4786.8	4786.8	4786.8	4786.8	4786.8	4786.8	4786.8	4786.8	4786.8	4786.8	4786.8
2.5°	4840.5	4838.5	4844.5	4838.5	4842.5	4828.6	4822.7	4826.6	4820.6	4810.7	4792.8
5°	4900.2	4898.2	4900.2	4892.3	4896.2	4888.3	4874.3	4878.3	4868.4	4846.5	4820.6
7.5°	5001.6	4993.7	4993.7	4991.7	4983.7	4971.8	4961.9	4957.9	4947.9	4920.1	4880.3
10°	5132.9	5132.9	5134.8	5118.9	5128.9	5107.0	5097.1	5095.1	5061.2	5025.5	4969.8
12.5°	5305.9	5315.9	5309.8	5301.9	5297.9	5289.9	5256.2	5264.1	5226.4	5164.7	5097.1
15°	5520.7	5536.6	5526.6	5522.7	5512.7	5482.9	5468.9	5463.0	5413.3	5323.8	5234.3
17.5°	5805.1	5785.2	5777.2	5767.3	5725.5	5703.6	5679.7	5675.8	5632.0	5526.6	5387.4
20°	6053.6	6081.5	6065.6	6055.6	6013.8	5972.1	5954.2	5948.2	5910.5	5795.1	5572.4
22.5°	6350.0	6355.9	6361.9	6338.0	6318.1	6286.3	6254.5	6244.6	6230.6	6111.3	5838.8
25°	6666.1	6690.0	6670.1	6646.3	6622.4	6620.4	6650.3	6646.3	6640.3	6525.0	6192.8
27.5°	7181.2	7203.1	7209.1	7183.2	7091.7	7099.7	7167.3	7189.2	7280.6	7089.8	6648.3
30°	7471.6	7493.5	7543.2	7640.6	7785.8	7913.1	8076.2	8125.9	8213.4	7853.4	7189.2
32.5°	7650.5	7658.5	7748.0	7929.0	8364.6	8839.8	9283.3	9301.2	9356.9	8851.7	7684.4
35°	7933.0	7938.9	8010.6	8209.4	8720.5	9512.0	10198.1	10220.0	10174.2	9162.0	7915.1
37.5°	8281.0	8296.9	8342.6	8507.7	9118.3	10074.8	10577.9	10562.0	10156.4	9408.6	8322.7
40°	8788.1	8788.1	8734.4	8957.1	9537.9	10397.0	10711.2	10683.3	10576.0	10122.5	8943.3
42.5°	9235.6	9227.7	9354.9	9506.0	10062.9	10894.2	11270.0	11315.8	11492.8	11019.5	9649.2
45°	9818.3	9854.1	9925.7	10200.1	10955.8	11743.4	12228.6	12272.4	12522.9	12075.4	10474.6
47.5°	10406.9	10418.8	10643.6	11009.5	12061.6	12894.8	13292.5	13364.2	13592.9	13310.5	11363.5
50°	10824.6	10937.9	11297.9	11874.6	13201.1	14298.8	14609.1	14694.6	15098.3	14654.8	12399.6
52.5°	11266.0	11377.5	11817.0	12696.0	14509.6	15734.7	16116.5	16174.2	16593.8	16015.1	13459.6
55°	11643.9	11747.3	12246.5	13423.8	15551.7	17200.4	17892.4	17824.8	18025.7	17063.1	14277.0
57.5°	11705.5	11789.1	12417.5	13889.2	16335.3	18457.3	19449.6	19489.3	19256.7	17846.7	14951.2
60°	11228.3	11399.3	12121.2	13839.4	16687.3	19332.3	20611.0	20638.9	19978.6	18248.4	15219.6
62.5°	10383.0	10365.2	11238.2	13040.0	16194.1	19531.2	21295.1	21265.3	20261.0	18055.5	14959.1
64°	9215.7	9430.5	10245.9	12057.6	15398.6	19224.8	21366.7	21350.8	20125.8	17653.8	14515.6
65°	8503.7	8491.8	9297.3	11254.1	14607.1	18763.5	21239.4	21217.6	19843.3	17293.8	14171.6
67.5°	6139.2	6167.0	6962.5	8684.7	11874.6	16959.7	20410.1	20328.6	18729.7	16100.6	12863.0
70°	3718.9	3734.8	4359.3	5761.3	8523.6	13710.2	18397.6	18401.5	17025.4	14318.7	10947.8
72.5°	1958.9	2000.6	2251.2	3271.5	5176.6	9619.4	14925.3	15279.3	14617.0	12220.7	8648.9
75°	1089.8	1095.8	1272.8	1612.8	2641.0	5383.4	11218.4	11319.8	11572.3	9836.2	6395.7
77.5°	831.3	843.2	898.9	1042.1	1437.8	2495.8	6789.5	7298.6	8155.7	6934.6	3649.2
80°	674.2	686.1	733.8	819.3	956.6	1183.3	3154.1	3428.5	4365.2	3078.5	1423.9
82.5°	525.0	517.1	578.7	634.4	696.1	700.0	1294.7	1431.9	1777.9	1324.4	616.5
85°	389.8	389.8	439.5	427.6	449.4	409.7	570.7	630.4	712.0	562.8	286.3
87.5°	155.1	171.0	288.4	258.5	200.8	161.1	210.8	222.8	246.6	220.7	119.3
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°	4786.8	4786.8	4786.8	4786.8	4786.8	4786.8	4786.8	4786.8	4786.8	4786.8	4786.8
2.5°	4794.8	4800.7	4786.8	4776.8	4772.9	4766.9	4761.0	4763.0	4770.9	4778.9	4776.8
5°	4818.7	4820.6	4796.7	4784.8	4776.8	4768.9	4768.9	4774.9	4790.8	4802.8	4802.8
7.5°	4878.3	4878.3	4844.5	4822.7	4810.7	4796.7	4792.8	4794.8	4806.7	4822.7	4824.6
10°	4971.8	4963.8	4920.1	4886.2	4864.4	4830.6	4800.7	4784.8	4790.8	4800.7	4800.7
12.5°	5085.1	5063.3	5007.6	4961.9	4908.2	4844.5	4782.9	4751.0	4749.1	4759.0	4755.0
15°	5206.5	5182.6	5105.0	5021.5	4928.0	4834.6	4761.0	4715.2	4679.4	4669.5	4691.3
17.5°	5347.7	5297.9	5190.5	5075.2	4936.0	4814.7	4699.3	4605.8	4542.2	4524.3	4530.3
20°	5518.7	5453.0	5307.9	5126.9	4930.0	4743.1	4564.1	4438.8	4335.4	4303.6	4307.5
22.5°	5755.4	5642.0	5429.2	5152.8	4880.3	4607.9	4359.3	4196.2	4070.9	4021.2	4051.0
25°	6023.8	5900.5	5544.5	5146.8	4751.0	4391.1	4116.6	3903.8	3790.5	3716.9	3732.8
27.5°	6393.7	6175.0	5667.8	5093.1	4566.1	4126.6	3808.4	3607.5	3504.1	3466.3	3484.2
30°	6867.0	6530.9	5801.1	4947.9	4273.8	3792.5	3498.1	3366.9	3305.3	3257.5	3273.4
32.5°	7209.1	6781.5	5830.9	4703.3	3957.5	3488.2	3287.3	3189.9	3122.3	3076.6	3086.5
35°	7453.7	6994.3	5817.0	4403.0	3627.4	3237.6	3120.3	3040.7	2931.4	2832.0	2814.0
37.5°	7781.8	7260.8	5715.6	4074.9	3301.3	3068.6	2985.0	2837.9	2680.8	2547.6	2541.5
40°	8285.0	7573.0	5498.8	3689.0	3022.8	2943.3	2841.9	2650.9	2481.9	2374.5	2366.5
42.5°	8804.1	7861.4	5204.4	3283.4	2794.1	2812.1	2688.7	2499.8	2396.4	2326.8	2318.9
45°	9438.4	8173.6	4886.2	2931.4	2625.1	2688.7	2555.5	2446.1	2384.5	2338.7	2326.8
47.5°	10124.5	8493.8	4528.3	2615.1	2481.9	2575.4	2499.8	2450.1	2416.3	2384.5	2370.5
50°	10864.4	8851.7	4192.2	2360.6	2352.7	2458.1	2493.9	2475.9	2456.0	2446.1	2434.2
52.5°	11675.7	9217.7	3909.8	2181.6	2239.3	2374.5	2495.8	2509.7	2509.7	2503.8	2495.8
55°	12224.6	9472.3	3623.4	2036.4	2124.0	2306.9	2491.8	2545.5	2565.4	2557.5	2549.5
57.5°	12630.3	9611.5	3263.5	1911.1	2026.5	2241.3	2470.0	2549.5	2569.4	2579.4	2575.4
60°	12713.8	9482.2	2792.2	1779.9	1921.1	2145.8	2390.4	2489.9	2515.7	2577.4	2583.4
62.5°	12338.0	9084.4	2322.8	1650.6	1791.8	2000.6	2283.1	2422.3	2474.0	2569.4	2579.4
64°	11876.6	8639.0	2062.3	1569.1	1708.3	1919.1	2229.4	2404.4	2471.9	2599.2	2607.2
65°	11538.5	8314.8	1899.2	1517.4	1654.6	1865.4	2199.5	2410.3	2489.9	2645.0	2657.0
67.5°	10293.6	7199.1	1571.1	1396.1	1527.3	1774.0	2205.5	2460.0	2485.9	2662.9	2660.9
70°	8517.6	5731.5	1316.5	1284.7	1404.0	1700.4	2181.6	2380.5	2382.5	2499.8	2471.9
72.5°	6377.8	4236.0	1141.5	1169.3	1266.8	1525.4	2060.3	2273.1	2239.3	2255.2	2227.3
75°	4381.1	2802.1	982.4	1046.1	1123.6	1348.3	1889.3	2064.3	2010.6	1990.7	1970.8
77.5°	2338.7	1549.2	817.4	924.7	976.5	1165.4	1648.6	1817.7	1762.0	1684.5	1658.6
80°	946.6	729.8	658.3	765.6	795.4	938.7	1372.2	1477.6	1435.9	1300.6	1256.9
82.5°	475.3	437.5	517.1	602.6	604.6	670.2	1020.2	1119.6	1026.2	861.1	823.3
85°	248.6	256.5	356.0	423.6	373.9	362.0	612.5	678.2	622.5	540.9	487.3
87.5°	89.5	103.4	186.9	184.9	131.2	69.6	135.2	65.6	35.8	21.8	27.9
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)