

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: P457085

Luminaire Tested: **GALN-SA8B-827-U-T3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457085
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-827-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33496 lumens
Efficiency: N/A
Efficacy: 103.1 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

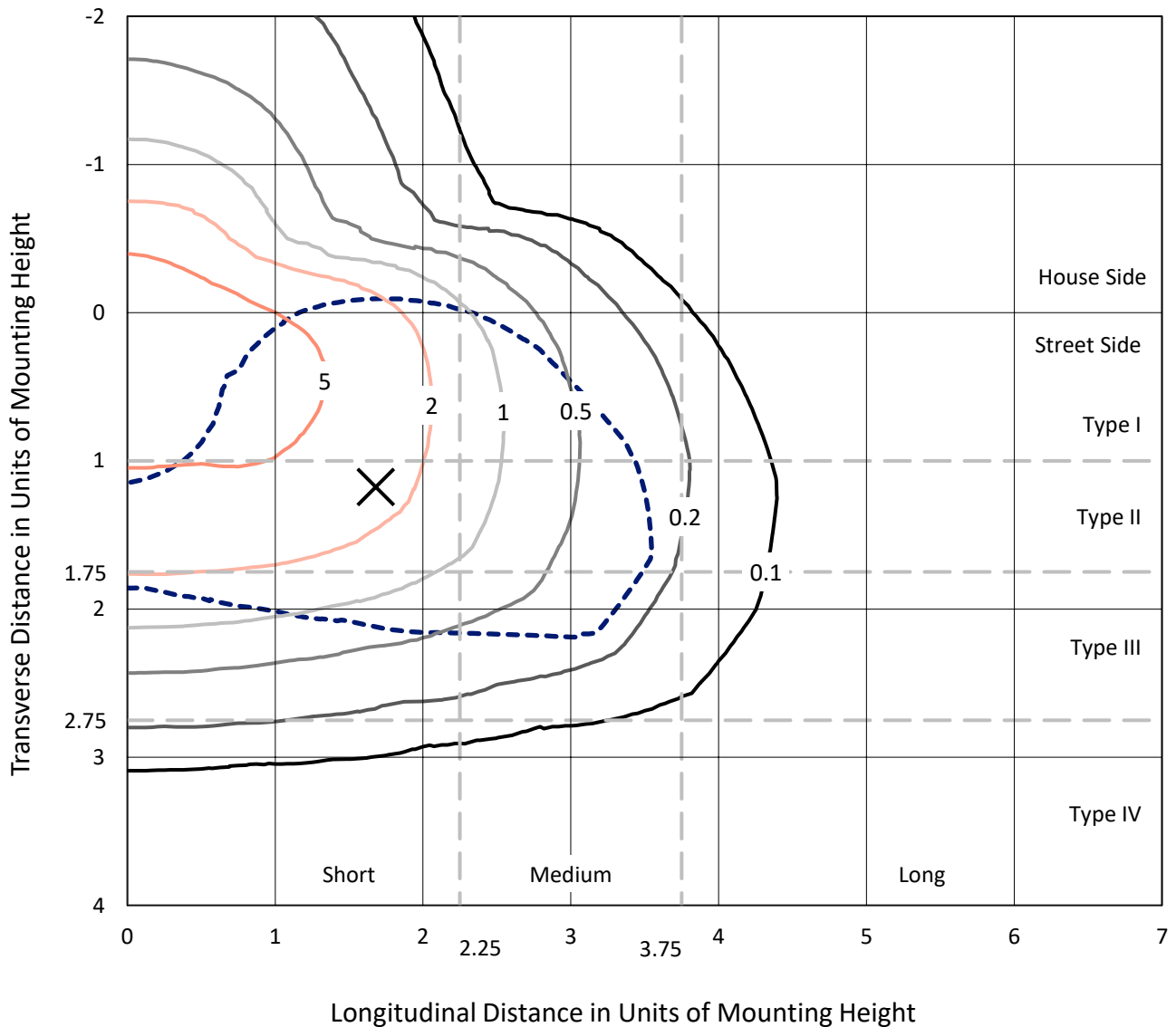
Input Watts (W): 325
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

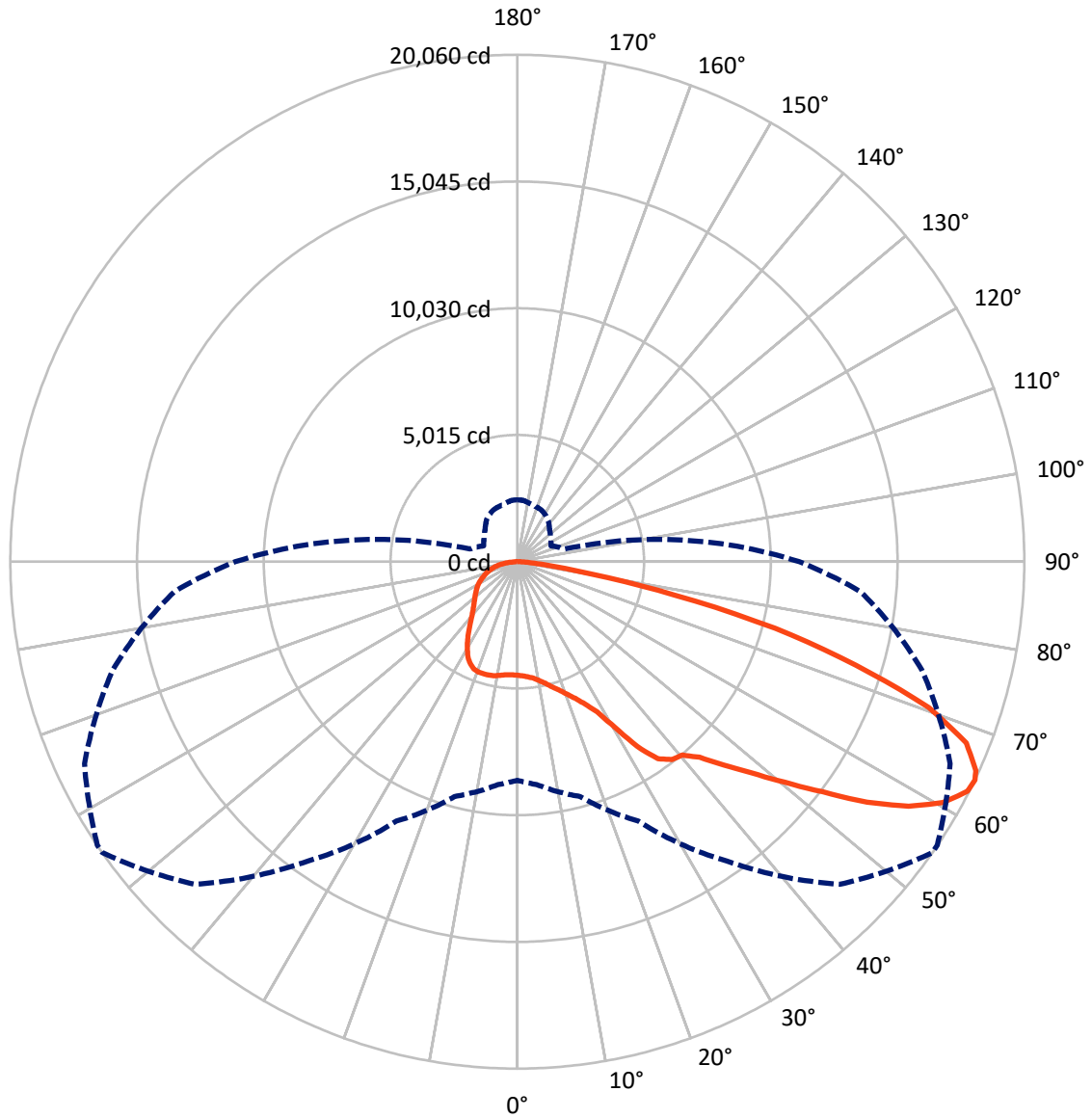
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.2 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	8136.8	0.0	8136.8
	% Fixture	24.3	0.0	24.3
Street Side	Lumens	25359.2	0.0	25359.2
	% Fixture	75.7	0.0	75.7
Total	Lumens	33496.0	0.0	33496.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	437.2	1.3
10°-20°	1379.4	4.1
20°-30°	2455.7	7.3
30°-40°	3778.3	11.3
40°-50°	5356.0	16.0
50°-60°	7752.7	23.1
60°-70°	8023.2	24.0
70°-80°	3757.3	11.2
80°-90°	556.2	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°	33496.0	100.0
0°-180°	33496.0	100.0

Coefficient of Utilization



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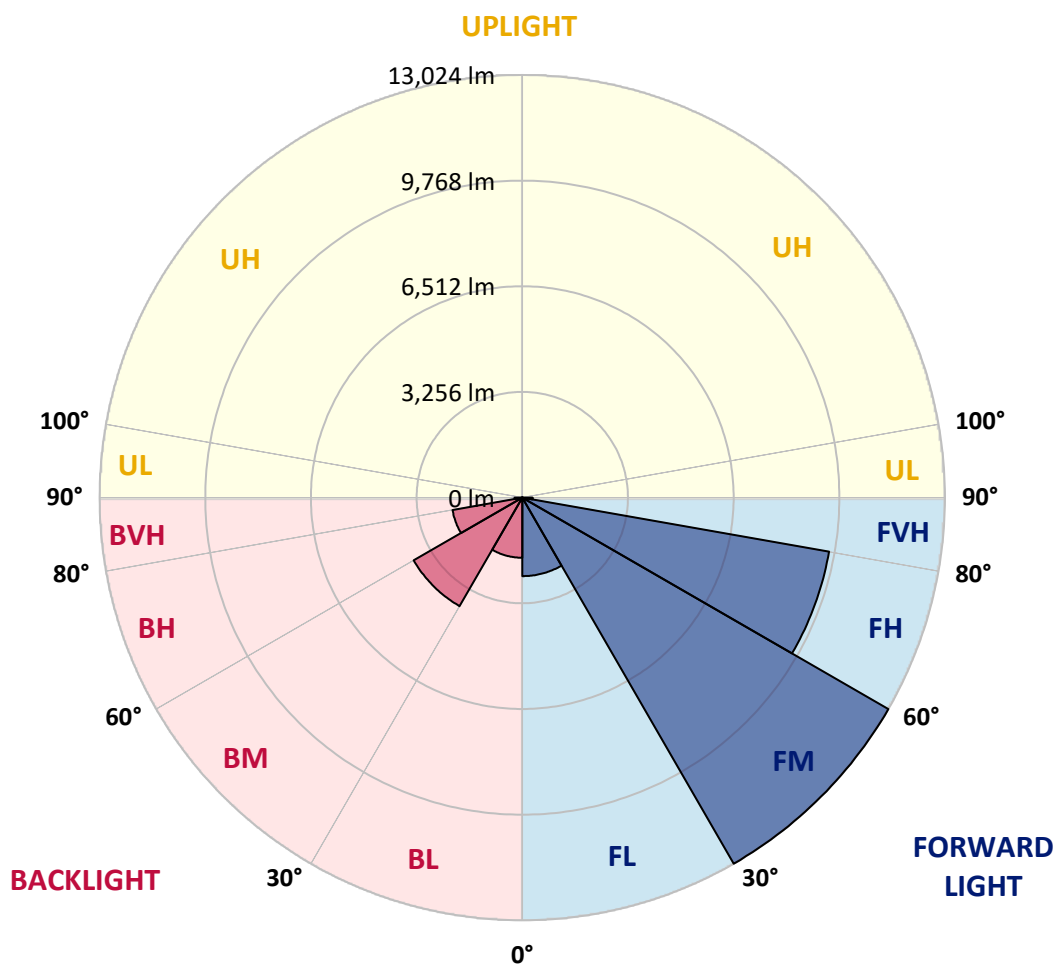
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2418.9	7.2			
FM	(30°-60°)	13024.2	38.9			
FH	(60°-80°)	9597.6	28.7			G4/12000
FVH	(80°-90°)	318.5	1.0			G3/500
BL	(0°-30°)	1853.3	5.5	B3/2500		
BM	(30°-60°)	3862.9	11.5	B3/5000		
BH	(60°-80°)	2183.0	6.5	B3/2500		G3/2500
BVH	(80°-90°)	237.7	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°	4494.2	4494.2	4494.2	4494.2	4494.2	4494.2	4494.2	4494.2	4494.2	4494.2	4494.2
2.5°	4544.6	4542.7	4548.3	4542.7	4546.4	4533.4	4527.8	4531.5	4525.9	4516.6	4499.8
5°	4600.6	4598.7	4600.6	4593.1	4596.8	4589.4	4576.3	4580.0	4570.7	4550.2	4525.9
7.5°	4695.8	4688.3	4688.3	4686.5	4679.0	4667.8	4658.5	4654.7	4645.4	4619.2	4581.9
10°	4819.0	4819.0	4820.9	4806.0	4815.3	4794.8	4785.4	4783.6	4751.8	4718.2	4665.9
12.5°	4981.5	4990.8	4985.2	4977.7	4974.0	4966.5	4934.8	4942.3	4906.8	4848.9	4785.4
15°	5183.1	5198.1	5188.7	5185.0	5175.7	5147.6	5134.6	5129.0	5082.3	4998.3	4914.3
17.5°	5450.1	5431.4	5424.0	5414.6	5375.4	5354.9	5332.5	5328.8	5287.7	5188.7	5058.0
20°	5683.5	5709.6	5694.7	5685.4	5646.2	5607.0	5590.2	5584.5	5549.1	5440.8	5231.7
22.5°	5961.7	5967.3	5972.9	5950.5	5931.8	5902.0	5872.1	5862.7	5849.7	5737.7	5481.9
25°	6258.6	6281.0	6262.3	6239.9	6217.5	6215.6	6243.6	6239.9	6234.3	6126.0	5814.2
27.5°	6742.2	6762.7	6768.3	6744.0	6658.1	6665.6	6729.1	6749.6	6835.5	6656.3	6241.8
30°	7014.8	7035.3	7082.0	7173.5	7309.8	7429.3	7582.4	7629.0	7711.2	7373.2	6749.6
32.5°	7182.8	7190.3	7274.3	7444.2	7853.1	8299.3	8715.7	8732.5	8784.8	8310.5	7214.5
35°	7447.9	7453.5	7520.7	7707.5	8187.3	8930.4	9574.6	9595.1	9552.2	8601.8	7431.1
37.5°	7774.7	7789.6	7832.6	7987.5	8560.7	9458.8	9931.2	9916.3	9535.4	8833.3	7813.9
40°	8250.8	8250.8	8200.4	8409.5	8954.7	9761.3	10056.3	10030.2	9929.3	9503.6	8396.4
42.5°	8670.9	8663.4	8782.9	8924.8	9447.6	10228.1	10581.0	10623.9	10790.1	10345.7	9059.3
45°	9218.0	9251.6	9318.8	9576.4	10286.0	11025.3	11480.9	11522.0	11757.2	11337.1	9834.1
47.5°	9770.6	9781.8	9992.8	10336.4	11324.1	12106.4	12479.8	12547.0	12761.7	12496.6	10668.7
50°	10162.7	10269.1	10607.1	11148.6	12393.9	13424.6	13715.8	13796.1	14175.2	13758.8	11641.5
52.5°	10577.2	10681.8	11094.4	11919.7	13622.5	14772.6	15131.1	15185.3	15579.2	15035.9	12636.7
55°	10932.0	11029.1	11497.7	12603.0	14600.9	16148.7	16798.5	16735.0	16923.6	16019.9	13404.0
57.5°	10989.9	11068.3	11658.3	13039.9	15336.5	17328.7	18260.4	18297.8	18079.3	16755.5	14037.0
60°	10541.7	10702.3	11380.1	12993.3	15667.0	18150.3	19350.8	19376.9	18757.1	17132.7	14289.1
62.5°	9748.2	9731.4	10551.1	12242.7	15203.9	18337.0	19993.1	19965.1	19022.2	16951.6	14044.5
64°	8652.2	8853.9	9619.4	11320.3	14457.1	18049.4	20060.3	20045.4	18895.2	16574.4	13628.1
65°	7983.8	7972.6	8728.8	10566.0	13714.0	17616.3	19940.8	19920.3	18630.1	16236.5	13305.1
67.5°	5763.8	5789.9	6536.8	8153.7	11148.6	15922.8	19162.2	19085.7	17584.5	15116.2	12076.5
70°	3491.5	3506.4	4092.7	5409.0	8002.5	12871.9	17272.7	17276.4	15984.4	13443.2	10278.5
72.5°	1839.1	1878.3	2113.6	3071.4	4860.1	9031.2	14012.7	14345.1	13723.3	11473.4	8120.1
75°	1023.2	1028.8	1195.0	1514.2	2479.5	5054.3	10532.4	10627.6	10864.8	9234.8	6004.7
77.5°	780.5	791.7	843.9	978.4	1349.9	2343.2	6374.3	6852.3	7657.0	6510.6	3426.2
80°	633.0	644.2	689.0	769.3	898.1	1110.9	2961.2	3218.9	4098.3	2890.3	1336.9
82.5°	492.9	485.5	543.3	595.6	653.5	657.2	1215.5	1344.3	1669.2	1243.5	578.8
85°	366.0	366.0	412.6	401.4	422.0	384.6	535.9	591.9	668.4	528.4	268.9
87.5°	145.6	160.6	270.7	242.7	188.6	151.2	197.9	209.1	231.5	207.3	112.0
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°	4494.2	4494.2	4494.2	4494.2	4494.2	4494.2	4494.2	4494.2	4494.2	4494.2	4494.2
2.5°	4501.6	4507.2	4494.2	4484.8	4481.1	4475.5	4469.9	4471.7	4479.2	4486.7	4484.8
5°	4524.0	4525.9	4503.5	4492.3	4484.8	4477.3	4477.3	4482.9	4497.9	4509.1	4509.1
7.5°	4580.0	4580.0	4548.3	4527.8	4516.6	4503.5	4499.8	4501.6	4512.8	4527.8	4529.6
10°	4667.8	4660.3	4619.2	4587.5	4567.0	4535.2	4507.2	4492.3	4497.9	4507.2	4507.2
12.5°	4774.2	4753.7	4701.4	4658.5	4608.0	4548.3	4490.4	4460.5	4458.7	4468.0	4464.3
15°	4888.1	4865.7	4792.9	4714.5	4626.7	4539.0	4469.9	4426.9	4393.3	4384.0	4404.5
17.5°	5020.7	4974.0	4873.2	4764.9	4634.2	4520.3	4412.0	4324.2	4264.5	4247.7	4253.3
20°	5181.3	5119.6	4983.3	4813.4	4628.6	4453.1	4285.0	4167.4	4070.3	4040.4	4044.2
22.5°	5403.4	5297.0	5097.2	4837.7	4581.9	4326.1	4092.7	3939.6	3822.0	3775.3	3803.3
25°	5655.5	5539.7	5205.5	4832.1	4460.5	4122.6	3864.9	3665.2	3558.7	3489.6	3504.6
27.5°	6002.8	5797.4	5321.3	4781.7	4286.9	3874.3	3575.5	3387.0	3289.9	3254.4	3271.2
30°	6447.2	6131.6	5446.4	4645.4	4012.4	3560.6	3284.3	3161.0	3103.1	3058.3	3073.3
32.5°	6768.3	6366.9	5474.4	4415.7	3715.6	3274.9	3086.3	2994.9	2931.4	2888.4	2897.8
35°	6998.0	6566.7	5461.3	4133.8	3405.6	3039.7	2929.5	2854.8	2752.1	2658.8	2642.0
37.5°	7306.0	6816.8	5366.1	3825.7	3099.4	2881.0	2802.5	2664.4	2516.9	2391.8	2386.2
40°	7778.4	7110.0	5162.6	3463.5	2838.0	2763.3	2668.1	2488.9	2330.2	2229.3	2221.9
42.5°	8265.7	7380.7	4886.2	3082.6	2623.3	2640.1	2524.3	2347.0	2249.9	2184.5	2177.1
45°	8861.3	7673.9	4587.5	2752.1	2464.6	2524.3	2399.2	2296.6	2238.7	2195.7	2184.5
47.5°	9505.5	7974.5	4251.4	2455.3	2330.2	2417.9	2347.0	2300.3	2268.5	2238.7	2225.6
50°	10200.1	8310.5	3935.9	2216.3	2208.8	2307.8	2341.4	2324.6	2305.9	2296.6	2285.4
52.5°	10961.8	8654.1	3670.8	2048.2	2102.4	2229.3	2343.2	2356.3	2356.3	2350.7	2343.2
55°	11477.2	8893.1	3401.9	1911.9	1994.1	2165.9	2339.5	2389.9	2408.6	2401.1	2393.6
57.5°	11858.1	9023.8	3063.9	1794.3	1902.6	2104.2	2319.0	2393.6	2412.3	2421.7	2417.9
60°	11936.5	8902.4	2621.4	1671.1	1803.6	2014.6	2244.3	2337.6	2361.9	2419.8	2425.4
62.5°	11583.6	8529.0	2180.8	1549.7	1682.3	1878.3	2143.5	2274.1	2322.7	2412.3	2421.7
64°	11150.4	8110.8	1936.2	1473.2	1603.9	1801.8	2093.0	2257.3	2320.8	2440.3	2447.8
65°	10833.0	7806.4	1783.1	1424.6	1553.4	1751.4	2065.0	2262.9	2337.6	2483.3	2494.5
67.5°	9664.2	6759.0	1475.0	1310.7	1433.9	1665.5	2070.6	2309.6	2333.9	2500.1	2498.2
70°	7996.9	5381.0	1236.0	1206.2	1318.2	1596.4	2048.2	2234.9	2236.8	2347.0	2320.8
72.5°	5987.8	3977.0	1071.7	1097.9	1189.4	1432.1	1934.3	2134.1	2102.4	2117.3	2091.2
75°	4113.3	2630.8	922.4	982.1	1054.9	1265.9	1773.8	1938.1	1887.7	1869.0	1850.3
77.5°	2195.7	1454.5	767.4	868.2	916.8	1094.1	1547.8	1706.5	1654.3	1581.4	1557.2
80°	888.7	685.2	618.0	718.8	746.8	881.3	1288.3	1387.3	1348.1	1221.1	1180.0
82.5°	446.2	410.8	485.5	565.7	567.6	629.2	957.8	1051.2	963.4	808.5	773.0
85°	233.4	240.9	334.2	397.7	351.0	339.8	575.1	636.7	584.4	507.9	457.4
87.5°	84.0	97.1	175.5	173.6	123.2	65.3	127.0	61.6	33.6	20.5	26.1
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)