

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: P652528

Luminaire Tested: **GALN-SA7B-840-U-T3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P652528
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-SA7B-840-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33053.8 lumens
Efficiency: N/A
Efficacy: 115.6 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

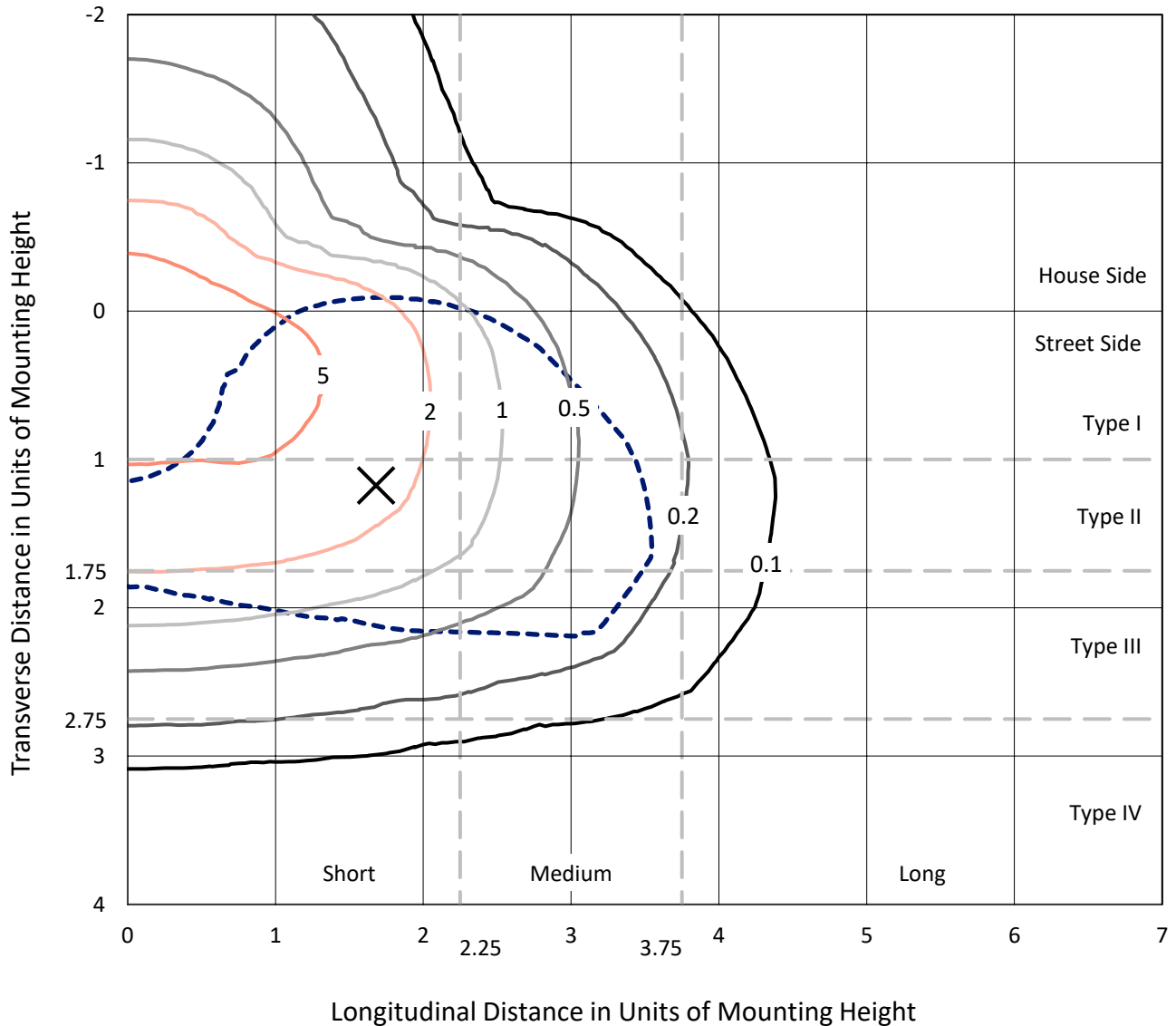
Input Watts (W): 286
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

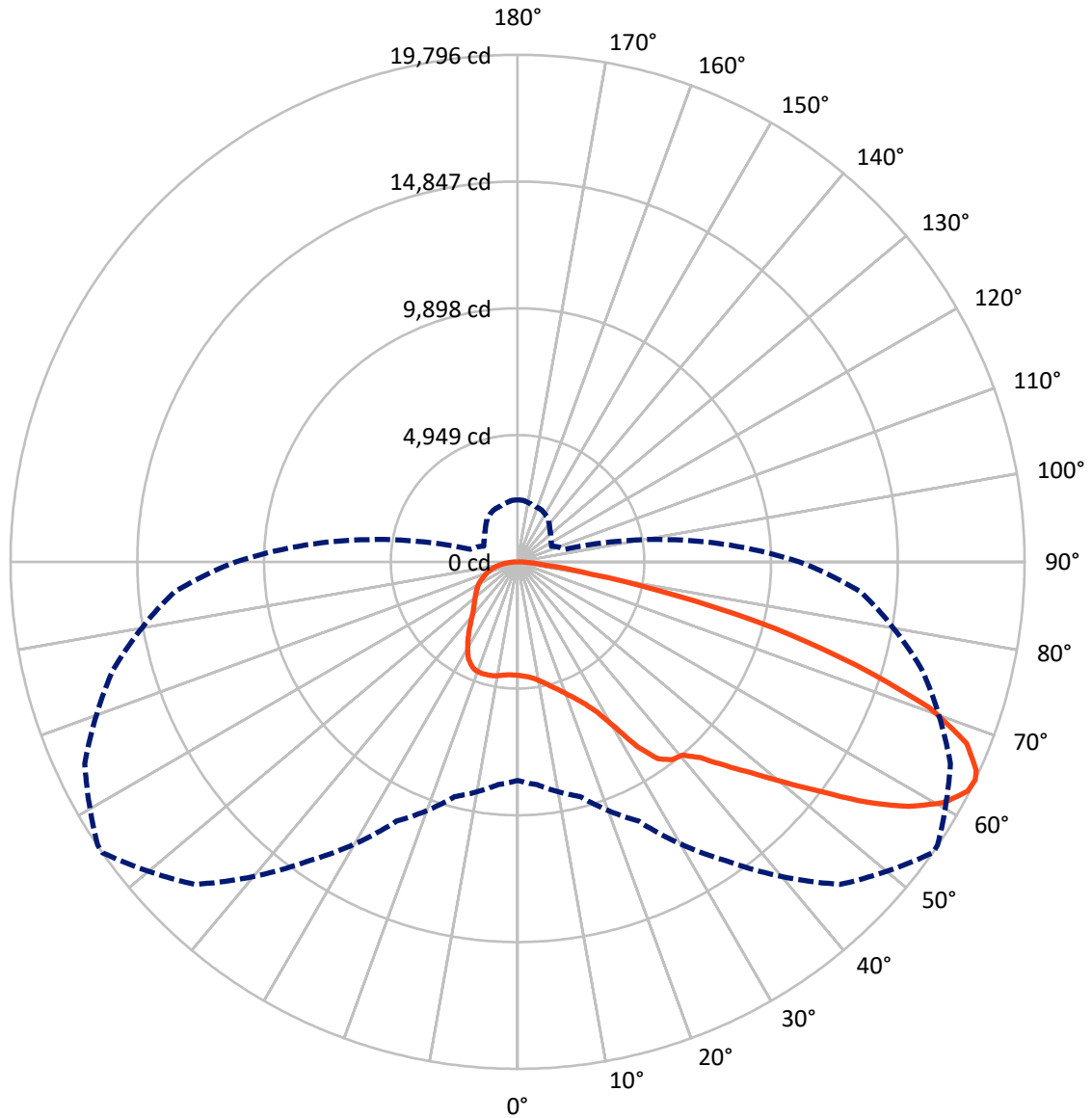
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.1 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	8029.4	0.0	8029.4
	% Fixture	24.3	0.0	24.3
Street Side	Lumens	25024.4	0.0	25024.4
	% Fixture	75.7	0.0	75.7
Total	Lumens	33053.8	0.0	33053.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	431.4	1.3
10°-20°	1361.2	4.1
20°-30°	2423.2	7.3
30°-40°	3728.4	11.3
40°-50°	5285.3	16.0
50°-60°	7650.4	23.1
60°-70°	7917.3	24.0
70°-80°	3707.7	11.2
80°-90°	548.9	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°	33053.8	100.0
0°-180°	33053.8	100.0

Coefficient of Utilization

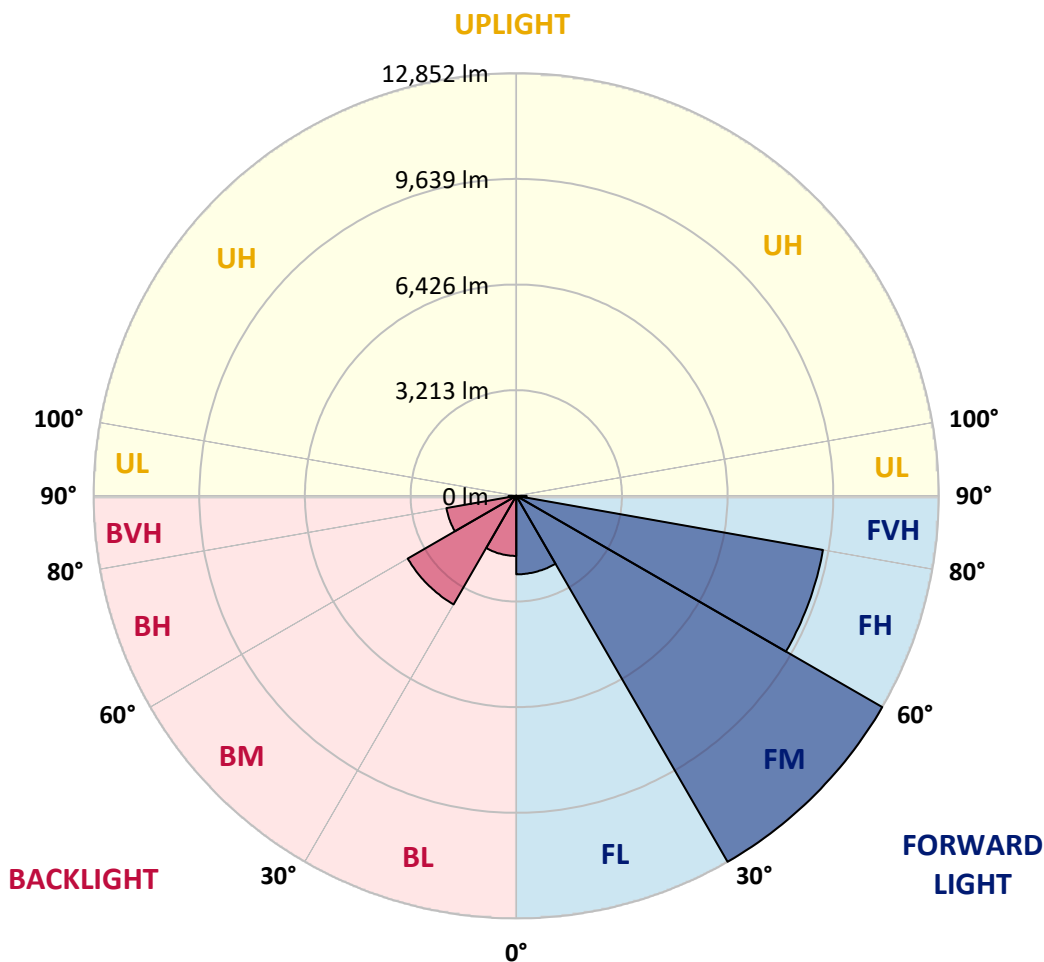


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2387.0	7.2			
FM	(30°-60°)	12852.2	38.9			
FH	(60°-80°)	9470.9	28.7			G4/12000
FVH	(80°-90°)	314.3	1.0			G3/500
BL	(0°-30°)	1828.8	5.5	B3/2500		
BM	(30°-60°)	3811.9	11.5	B3/5000		
BH	(60°-80°)	2154.1	6.5	B3/2500		G3/2500
BVH	(80°-90°)	234.6	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°	4434.8	4434.8	4434.8	4434.8	4434.8	4434.8	4434.8	4434.8	4434.8	4434.8	4434.8
2.5°	4484.5	4482.7	4488.2	4482.7	4486.4	4473.5	4468.0	4471.7	4466.1	4457.0	4440.3
5°	4539.9	4538.0	4539.9	4532.5	4536.2	4528.8	4515.9	4519.6	4510.4	4490.1	4466.1
7.5°	4633.8	4626.4	4626.4	4624.6	4617.3	4606.2	4597.0	4593.3	4584.0	4558.3	4521.4
10°	4755.4	4755.4	4757.3	4742.5	4751.7	4731.5	4722.2	4720.4	4689.1	4655.9	4604.3
12.5°	4915.7	4924.9	4919.4	4912.0	4908.3	4901.0	4869.6	4877.0	4842.0	4784.9	4722.2
15°	5114.7	5129.4	5120.3	5116.6	5107.3	5079.7	5066.8	5061.3	5015.2	4932.3	4849.4
17.5°	5378.2	5359.8	5352.4	5343.1	5304.4	5284.2	5262.1	5258.4	5217.9	5120.3	4991.3
20°	5608.5	5634.3	5619.6	5610.3	5571.6	5532.9	5516.4	5510.8	5475.8	5368.9	5162.6
22.5°	5883.0	5888.5	5894.1	5871.9	5853.5	5824.0	5794.6	5785.3	5772.5	5661.9	5409.5
25°	6176.0	6198.1	6179.7	6157.5	6135.4	6133.6	6161.3	6157.5	6152.0	6045.1	5737.5
27.5°	6653.2	6673.4	6679.0	6655.0	6570.2	6577.6	6640.3	6660.6	6745.3	6568.4	6159.4
30°	6922.2	6942.5	6988.5	7078.8	7213.3	7331.2	7482.3	7528.3	7609.4	7275.9	6660.6
32.5°	7087.9	7095.3	7178.3	7346.0	7749.4	8189.7	8600.7	8617.2	8668.9	8200.8	7119.3
35°	7349.6	7355.1	7421.5	7605.8	8079.2	8812.5	9448.2	9468.5	9426.1	8488.3	7333.0
37.5°	7672.0	7686.8	7729.1	7882.1	8447.8	9333.9	9800.1	9785.4	9409.5	8716.7	7710.7
40°	8141.9	8141.9	8092.1	8298.5	8836.5	9632.4	9923.5	9897.7	9798.2	9378.2	8285.6
42.5°	8556.4	8549.1	8667.0	8807.0	9322.9	10093.0	10441.3	10483.7	10647.6	10209.2	8939.7
45°	9096.3	9129.5	9195.7	9450.1	10150.2	10879.8	11329.4	11369.9	11602.0	11187.5	9704.3
47.5°	9641.6	9652.7	9860.9	10199.9	11174.6	11946.6	12315.1	12381.4	12593.3	12331.7	10527.9
50°	10028.6	10133.5	10467.1	11001.4	12230.3	13247.3	13534.8	13614.0	13988.0	13577.2	11487.8
52.5°	10437.6	10540.8	10948.0	11762.3	13442.6	14577.6	14931.4	14984.8	15373.6	14837.4	12469.8
55°	10787.7	10883.5	11345.9	12436.7	14408.1	15935.5	16576.7	16514.0	16700.2	15808.4	13227.1
57.5°	10844.8	10922.2	11504.4	12867.8	15134.0	17100.0	18019.4	18056.2	17840.6	16534.3	13851.7
60°	10402.6	10561.0	11229.9	12821.7	15460.2	17910.7	19095.3	19121.1	18509.5	16906.5	14100.5
62.5°	9619.5	9603.0	10411.8	12081.0	15003.3	18094.9	19729.2	19701.5	18771.1	16727.8	13859.1
64°	8538.0	8737.0	9492.4	11170.9	14266.2	17811.1	19795.5	19780.7	18645.8	16355.6	13448.2
65°	7878.4	7867.4	8613.5	10426.5	13533.0	17383.7	19677.5	19657.3	18384.2	16022.1	13129.4
67.5°	5687.7	5713.5	6450.5	8046.1	11001.4	15712.6	18909.3	18833.7	17352.4	14916.6	11917.1
70°	3445.4	3460.1	4038.7	5337.7	7896.8	12702.0	17044.7	17048.4	15773.4	13265.8	10142.8
72.5°	1814.8	1853.6	2085.7	3030.9	4796.0	8912.0	13827.7	14155.7	13542.1	11322.0	8012.9
75°	1009.7	1015.2	1179.2	1494.2	2446.8	4987.6	10393.4	10487.4	10721.3	9112.8	5925.3
77.5°	770.2	781.2	832.8	965.5	1332.1	2312.3	6290.2	6761.9	7556.0	6424.7	3380.9
80°	624.6	635.6	679.9	759.1	886.2	1096.2	2922.1	3176.5	4044.2	2852.2	1319.2
82.5°	486.4	479.0	536.1	587.8	644.9	648.6	1199.4	1326.6	1647.2	1227.1	571.2
85°	361.1	361.1	407.2	396.1	416.4	379.5	528.8	584.1	659.6	521.4	265.3
87.5°	143.7	158.4	267.2	239.5	186.1	149.3	195.3	206.4	228.5	204.5	110.5
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°	4434.8	4434.8	4434.8	4434.8	4434.8	4434.8	4434.8	4434.8	4434.8	4434.8	4434.8
2.5°	4442.2	4447.7	4434.8	4425.6	4421.9	4416.4	4410.9	4412.7	4420.0	4427.4	4425.6
5°	4464.3	4466.1	4444.0	4433.0	4425.6	4418.3	4418.3	4423.7	4438.5	4449.6	4449.6
7.5°	4519.6	4519.6	4488.2	4468.0	4457.0	4444.0	4440.3	4442.2	4453.3	4468.0	4469.8
10°	4606.2	4598.8	4558.3	4526.9	4506.7	4475.4	4447.7	4433.0	4438.5	4447.7	4447.7
12.5°	4711.2	4690.9	4639.4	4597.0	4547.2	4488.2	4431.1	4401.6	4399.9	4409.0	4405.3
15°	4823.6	4801.4	4729.6	4652.2	4565.6	4479.1	4410.9	4368.5	4335.4	4326.1	4346.4
17.5°	4954.4	4908.3	4808.8	4701.9	4573.0	4460.6	4353.8	4267.1	4208.2	4191.6	4197.2
20°	5112.9	5052.1	4917.6	4749.9	4567.5	4394.3	4228.5	4112.4	4016.6	3987.1	3990.8
22.5°	5332.1	5227.1	5029.9	4773.9	4521.4	4269.0	4038.7	3887.6	3771.5	3725.5	3753.1
25°	5580.9	5466.6	5136.8	4768.3	4401.6	4068.2	3813.9	3616.8	3511.8	3443.6	3458.3
27.5°	5923.5	5720.9	5251.0	4718.6	4230.3	3823.1	3528.3	3342.2	3246.4	3211.4	3228.0
30°	6362.1	6050.7	5374.5	4584.0	3959.4	3513.6	3240.9	3119.3	3062.2	3017.9	3032.7
32.5°	6679.0	6282.9	5402.2	4357.5	3666.5	3231.7	3045.6	2955.4	2892.7	2850.3	2859.5
35°	6905.6	6480.0	5389.2	4079.3	3360.6	2999.5	2890.9	2817.1	2715.8	2623.7	2607.1
37.5°	7209.6	6726.8	5295.3	3775.2	3058.5	2842.9	2765.5	2629.2	2483.6	2360.2	2354.7
40°	7675.7	7016.1	5094.4	3417.7	2800.5	2726.9	2632.9	2456.0	2299.4	2199.9	2192.6
42.5°	8156.6	7283.3	4821.7	3041.9	2588.7	2605.2	2491.0	2315.9	2220.2	2155.7	2148.3
45°	8744.4	7572.5	4526.9	2715.8	2432.1	2491.0	2367.6	2266.2	2209.1	2166.8	2155.7
47.5°	9380.0	7869.2	4195.3	2422.8	2299.4	2386.0	2315.9	2269.9	2238.6	2209.1	2196.2
50°	10065.4	8200.8	3883.9	2187.0	2179.6	2277.3	2310.5	2293.9	2275.4	2266.2	2255.1
52.5°	10817.1	8539.9	3622.3	2021.2	2074.7	2199.9	2312.3	2325.2	2325.2	2319.6	2312.3
55°	11325.7	8775.7	3357.0	1886.7	1967.8	2137.2	2308.6	2358.3	2376.8	2369.4	2362.0
57.5°	11701.5	8904.7	3023.5	1770.6	1877.4	2076.4	2288.4	2362.0	2380.5	2389.7	2386.0
60°	11778.9	8784.9	2586.8	1649.0	1779.8	1988.0	2214.7	2306.8	2330.7	2387.9	2393.4
62.5°	11430.7	8416.4	2152.0	1529.3	1660.0	1853.6	2115.1	2244.1	2292.1	2380.5	2389.7
64°	11003.2	8003.7	1910.7	1453.7	1582.7	1778.0	2065.4	2227.6	2290.2	2408.1	2415.5
65°	10690.0	7703.4	1759.5	1405.8	1533.0	1728.3	2037.7	2233.1	2306.8	2450.5	2461.5
67.5°	9536.6	6669.7	1455.5	1293.4	1415.0	1643.5	2043.3	2279.1	2303.1	2467.1	2465.2
70°	7891.3	5310.0	1219.7	1190.3	1300.8	1575.3	2021.2	2205.4	2207.3	2315.9	2290.2
72.5°	5908.8	3924.4	1057.6	1083.4	1173.6	1413.2	1908.8	2105.9	2074.7	2089.4	2063.6
75°	4059.0	2596.0	910.2	969.2	1041.0	1249.2	1750.4	1912.5	1862.7	1844.3	1825.9
77.5°	2166.8	1435.3	757.2	856.7	904.7	1079.7	1527.4	1684.0	1632.5	1560.6	1536.6
80°	877.0	676.2	609.9	709.4	737.0	869.7	1271.3	1369.0	1330.3	1205.0	1164.4
82.5°	440.3	405.4	479.0	558.3	560.1	620.9	945.2	1037.3	950.8	797.8	762.8
85°	230.3	237.7	329.8	392.4	346.4	335.3	567.5	628.3	576.7	501.2	451.4
87.5°	82.9	95.8	173.2	171.3	121.6	64.5	125.3	60.8	33.1	20.3	25.8
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)