

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: P457636

Luminaire Tested: **GALN-SA9A-727-U-T3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457636
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-SA9A-727-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34382 lumens
Efficiency: N/A
Efficacy: 125.5 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

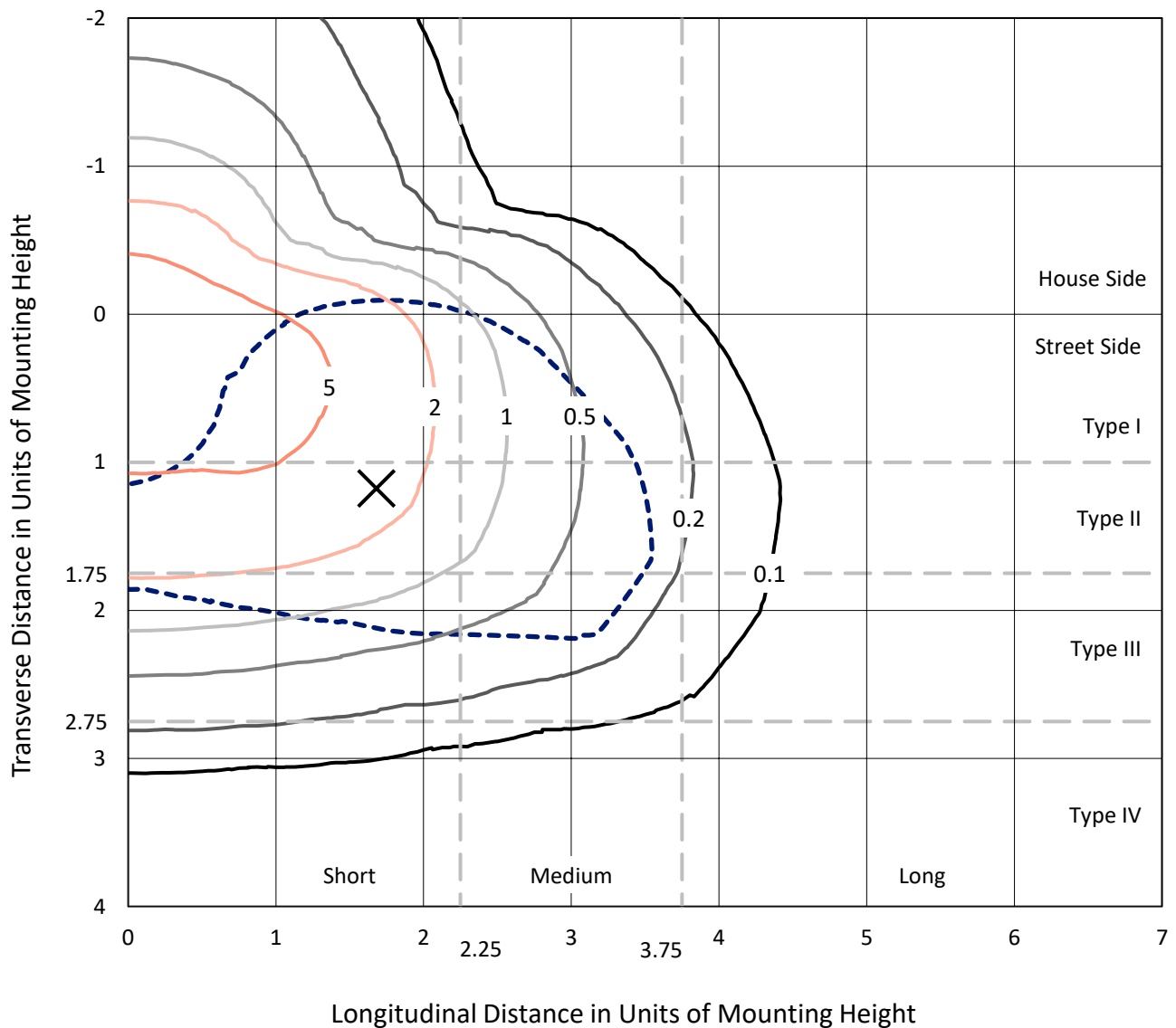
Input Watts (W): 274
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

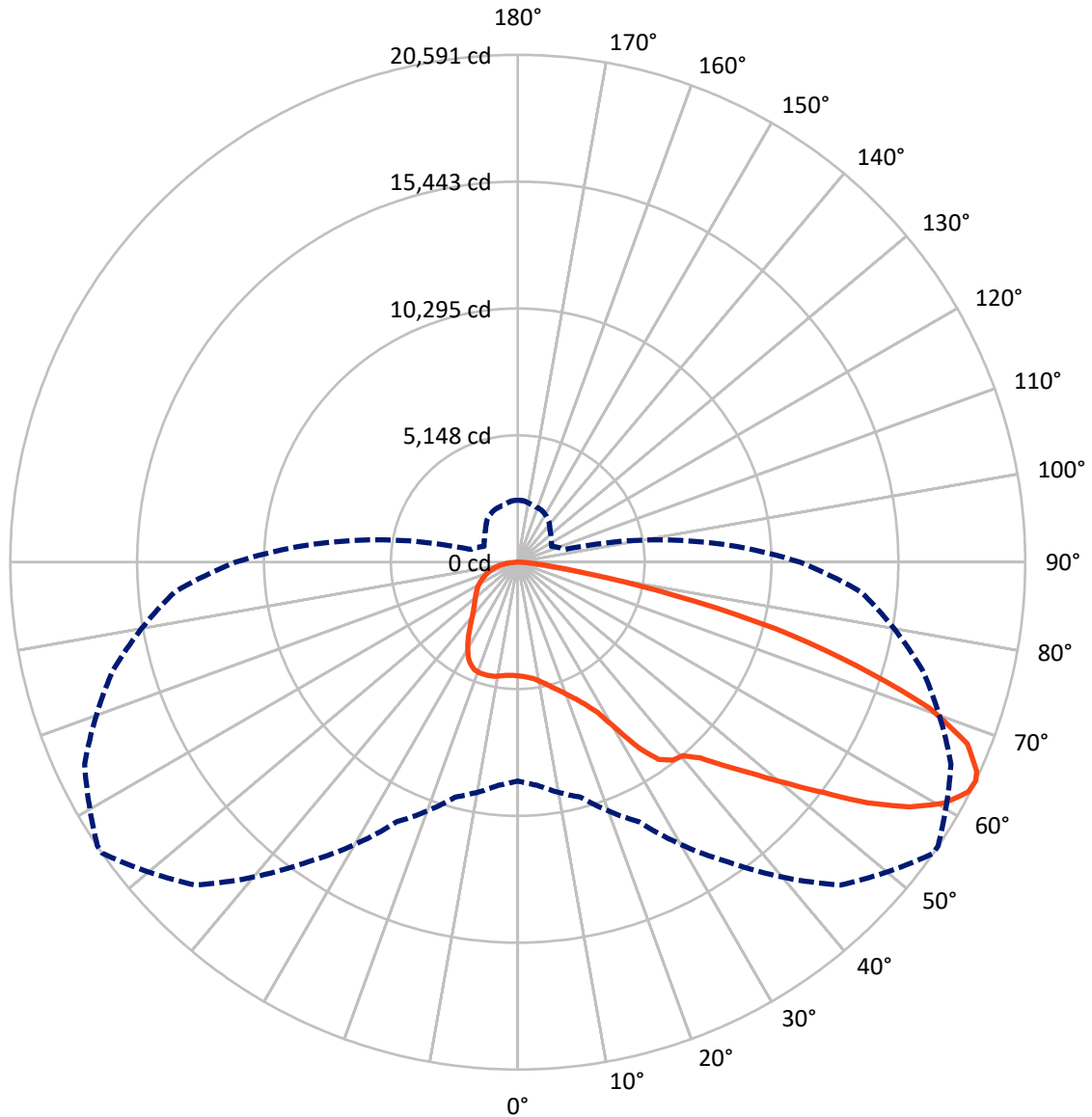
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.4 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	8352.1	0.0	8352.1
	% Fixture	24.3	0.0	24.3
Street Side	Lumens	26029.9	0.0	26029.9
	% Fixture	75.7	0.0	75.7
Total	Lumens	34382.0	0.0	34382.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	448.7	1.3
10°-20°	1415.9	4.1
20°-30°	2520.6	7.3
30°-40°	3878.2	11.3
40°-50°	5497.7	16.0
50°-60°	7957.8	23.1
60°-70°	8235.5	24.0
70°-80°	3856.7	11.2
80°-90°	570.9	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°	34382.0	100.0
0°-180°	34382.0	100.0

Coefficient of Utilization



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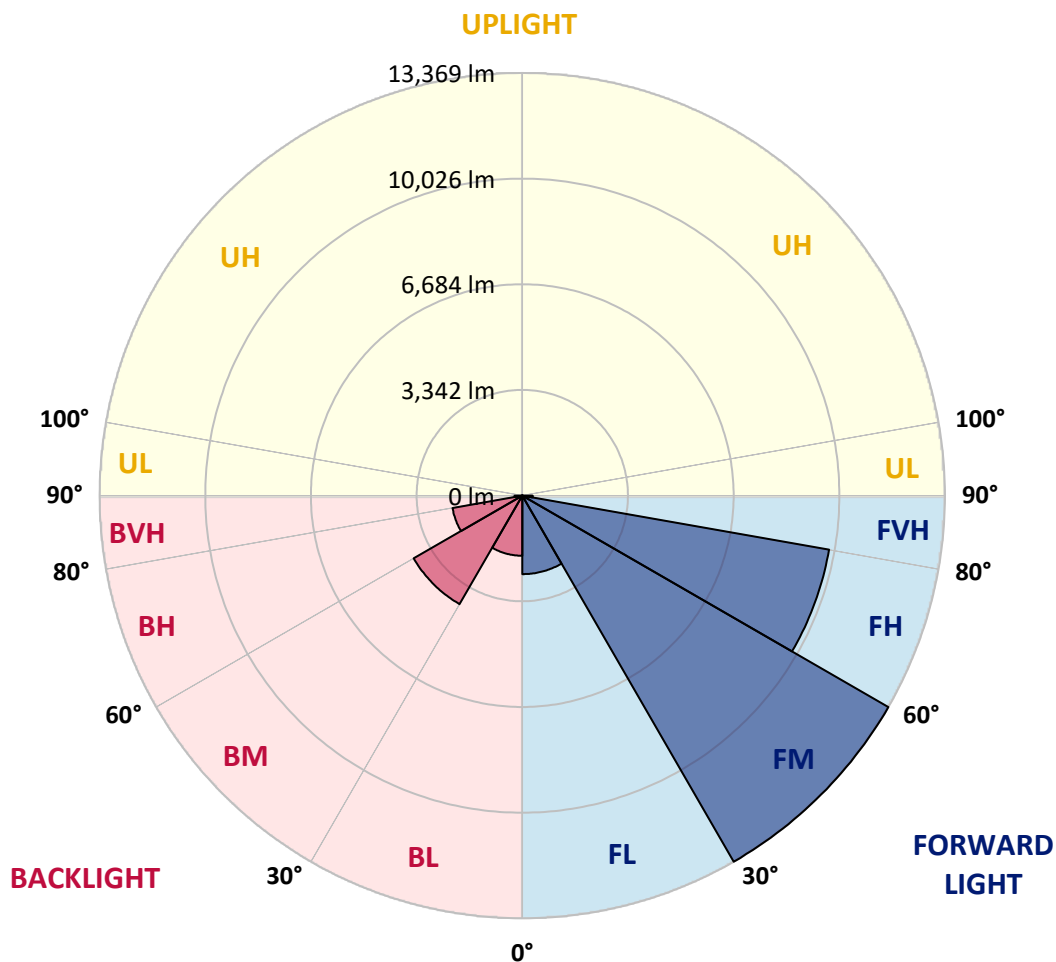
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2482.9	7.2			
FM	(30°-60°)	13368.7	38.9			
FH	(60°-80°)	9851.4	28.7			G4/12000
FVH	(80°-90°)	326.9	1.0			G3/500
BL	(0°-30°)	1902.3	5.5	B3/2500		
BM	(30°-60°)	3965.1	11.5	B3/5000		
BH	(60°-80°)	2240.7	6.5	B3/2500		G3/2500
BVH	(80°-90°)	244.0	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°	4613.0	4613.0	4613.0	4613.0	4613.0	4613.0	4613.0	4613.0	4613.0	4613.0	4613.0
2.5°	4664.8	4662.9	4668.6	4662.9	4666.7	4653.3	4647.5	4651.4	4645.6	4636.0	4618.8
5°	4722.3	4720.4	4722.3	4714.6	4718.4	4710.8	4697.4	4701.2	4691.6	4670.5	4645.6
7.5°	4820.0	4812.3	4812.3	4810.4	4802.8	4791.3	4781.7	4777.8	4768.3	4741.4	4703.1
10°	4946.5	4946.5	4948.4	4933.1	4942.7	4921.6	4912.0	4910.1	4877.5	4843.0	4789.3
12.5°	5113.2	5122.8	5117.1	5109.4	5105.6	5097.9	5065.3	5073.0	5036.6	4977.2	4912.0
15°	5320.2	5335.5	5326.0	5322.1	5312.6	5283.8	5270.4	5264.6	5216.7	5130.5	5044.2
17.5°	5594.3	5575.1	5567.4	5557.9	5517.6	5496.5	5473.5	5469.7	5427.5	5326.0	5191.8
20°	5833.8	5860.7	5845.3	5835.8	5795.5	5755.3	5738.0	5732.3	5695.9	5584.7	5370.0
22.5°	6119.4	6125.1	6130.9	6107.9	6088.7	6058.1	6027.4	6017.8	6004.4	5889.4	5626.9
25°	6424.1	6447.1	6428.0	6405.0	6382.0	6380.0	6408.8	6405.0	6399.2	6288.1	5968.0
27.5°	6920.5	6941.6	6947.3	6922.4	6834.3	6841.9	6907.1	6928.2	7016.3	6832.3	6406.9
30°	7200.3	7221.4	7269.3	7363.2	7503.1	7625.8	7782.9	7830.8	7915.2	7568.3	6928.2
32.5°	7372.8	7380.5	7466.7	7641.1	8060.8	8518.9	8946.2	8963.5	9017.2	8530.4	7405.4
35°	7644.9	7650.7	7719.7	7911.3	8403.9	9166.6	9827.8	9848.9	9804.8	8829.3	7627.7
37.5°	7980.3	7995.7	8039.7	8198.8	8787.2	9709.0	10193.9	10178.6	9787.6	9067.0	8020.6
40°	8469.0	8469.0	8417.3	8631.9	9191.6	10019.5	10322.3	10295.5	10192.0	9755.0	8618.5
42.5°	8900.2	8892.6	9015.2	9160.9	9697.5	10498.6	10860.8	10904.9	11075.5	10619.4	9298.9
45°	9461.8	9496.3	9565.3	9829.8	10558.0	11317.0	11784.6	11826.8	12068.2	11637.0	10094.2
47.5°	10029.1	10040.6	10257.1	10609.8	11623.6	12426.6	12809.9	12878.9	13099.3	12827.2	10950.9
50°	10431.5	10540.8	10887.7	11443.4	12721.8	13779.7	14078.6	14161.1	14550.1	14122.7	11949.4
52.5°	10857.0	10964.3	11387.9	12235.0	13982.8	15163.4	15531.4	15586.9	15991.3	15433.6	12970.9
55°	11221.1	11320.8	11801.8	12936.4	14987.1	16575.8	17242.8	17177.6	17371.2	16443.6	13758.6
57.5°	11280.5	11361.0	11966.7	13384.9	15742.2	17787.1	18743.4	18781.7	18557.5	17198.7	14408.3
60°	10820.6	10985.4	11681.1	13337.0	16081.4	18630.3	19862.7	19889.5	19253.2	17585.8	14667.0
62.5°	10006.1	9988.8	10830.2	12566.5	15606.1	18822.0	20521.9	20493.2	19525.3	17399.9	14415.9
64°	8881.1	9088.1	9873.8	11619.8	14839.5	18526.9	20590.9	20575.6	19395.0	17012.8	13988.6
65°	8195.0	8183.5	8959.7	10845.5	14076.7	18082.2	20468.3	20447.2	19122.9	16665.9	13657.0
67.5°	5916.2	5943.1	6709.7	8369.4	11443.4	16344.0	19669.1	19590.5	18049.6	15516.0	12396.0
70°	3583.9	3599.2	4201.0	5552.1	8214.1	13212.4	17729.6	17733.4	16407.2	13798.8	10550.4
72.5°	1887.8	1928.0	2169.5	3152.7	4988.7	9270.1	14383.4	14724.5	14086.3	11776.9	8334.9
75°	1050.2	1056.0	1226.6	1554.3	2545.1	5188.0	10811.0	10908.7	11152.1	9479.0	6163.5
77.5°	801.1	812.6	866.3	1004.2	1385.6	2405.2	6542.9	7033.6	7859.6	6682.9	3516.8
80°	649.7	661.2	707.2	789.6	921.8	1140.3	3039.6	3304.1	4206.7	2966.7	1372.2
82.5°	506.0	498.3	557.7	611.4	670.8	674.6	1247.6	1379.9	1713.4	1276.4	594.1
85°	375.6	375.6	423.5	412.0	433.1	394.8	550.0	607.5	686.1	542.4	276.0
87.5°	149.5	164.8	277.9	249.1	193.6	155.2	203.1	214.6	237.6	212.7	115.0
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°	4613.0	4613.0	4613.0	4613.0	4613.0	4613.0	4613.0	4613.0	4613.0	4613.0	4613.0
2.5°	4620.7	4626.4	4613.0	4603.4	4599.6	4593.9	4588.1	4590.0	4597.7	4605.4	4603.4
5°	4643.7	4645.6	4622.6	4611.1	4603.4	4595.8	4595.8	4601.5	4616.9	4628.4	4628.4
7.5°	4701.2	4701.2	4668.6	4647.5	4636.0	4622.6	4618.8	4620.7	4632.2	4647.5	4649.4
10°	4791.3	4783.6	4741.4	4708.9	4687.8	4655.2	4626.4	4611.1	4616.9	4626.4	4626.4
12.5°	4900.5	4879.4	4825.8	4781.7	4729.9	4668.6	4609.2	4578.5	4576.6	4586.2	4582.4
15°	5017.4	4994.4	4919.7	4839.2	4749.1	4659.0	4588.1	4544.0	4509.5	4500.0	4521.0
17.5°	5153.5	5105.6	5002.1	4890.9	4756.8	4639.9	4528.7	4438.6	4377.3	4360.0	4365.8
20°	5318.3	5255.1	5115.2	4940.7	4751.0	4570.9	4398.4	4277.6	4178.0	4147.3	4151.1
22.5°	5546.4	5437.1	5232.1	4965.7	4703.1	4440.5	4201.0	4043.8	3923.1	3875.2	3903.9
25°	5805.1	5686.3	5343.2	4959.9	4578.5	4231.6	3967.2	3762.1	3652.9	3581.9	3597.3
27.5°	6161.6	5950.7	5462.0	4908.2	4400.3	3976.7	3670.1	3476.5	3376.9	3340.5	3357.7
30°	6617.7	6293.8	5590.4	4768.3	4118.6	3654.8	3371.1	3244.6	3185.2	3139.2	3154.6
32.5°	6947.3	6535.3	5619.2	4532.5	3813.8	3361.5	3168.0	3074.1	3008.9	2964.8	2974.4
35°	7183.1	6740.3	5605.8	4243.1	3495.7	3120.1	3007.0	2930.3	2824.9	2729.1	2711.9
37.5°	7499.3	6997.2	5508.0	3926.9	3181.4	2957.2	2876.7	2734.9	2583.4	2455.0	2449.3
40°	7984.2	7298.0	5299.1	3555.1	2913.1	2836.4	2738.7	2554.7	2391.8	2288.3	2280.6
42.5°	8484.4	7575.9	5015.5	3164.1	2692.7	2709.9	2591.1	2409.0	2309.4	2242.3	2234.6
45°	9095.7	7876.8	4708.9	2824.9	2529.8	2591.1	2462.7	2357.3	2297.9	2253.8	2242.3
47.5°	9756.9	8185.4	4363.9	2520.2	2391.8	2481.9	2409.0	2361.1	2328.6	2297.9	2284.5
50°	10469.9	8530.4	4040.0	2274.9	2267.2	2368.8	2403.3	2386.0	2366.9	2357.3	2345.8
52.5°	11251.8	8883.0	3767.8	2102.4	2158.0	2288.3	2405.2	2418.6	2418.6	2412.9	2405.2
55°	11780.8	9128.3	3491.9	1962.5	2046.8	2223.1	2401.4	2453.1	2472.3	2464.6	2457.0
57.5°	12171.7	9262.5	3145.0	1841.8	1952.9	2159.9	2380.3	2457.0	2476.1	2485.7	2481.9
60°	12252.2	9137.9	2690.8	1715.3	1851.3	2067.9	2303.6	2399.5	2424.4	2483.8	2489.5
62.5°	11890.0	8754.6	2238.5	1590.7	1726.8	1928.0	2200.1	2334.3	2384.1	2476.1	2485.7
64°	11445.4	8325.3	1987.4	1512.1	1646.3	1849.4	2148.4	2317.1	2382.2	2504.9	2512.5
65°	11119.6	8012.9	1830.3	1462.3	1594.5	1797.7	2119.7	2322.8	2399.5	2549.0	2560.5
67.5°	9919.8	6937.7	1514.0	1345.4	1471.9	1709.5	2125.4	2370.7	2395.6	2566.2	2564.3
70°	8208.4	5523.4	1268.7	1238.1	1353.1	1638.6	2102.4	2294.1	2296.0	2409.0	2382.2
72.5°	6146.2	4082.2	1100.1	1126.9	1220.8	1470.0	1985.5	2190.6	2158.0	2173.3	2146.5
75°	4222.1	2700.4	946.8	1008.1	1082.8	1299.4	1820.7	1989.3	1937.6	1918.4	1899.3
77.5°	2253.8	1493.0	787.7	891.2	941.0	1123.1	1588.8	1751.7	1698.0	1623.3	1598.4
80°	912.3	703.4	634.4	737.9	766.6	904.6	1322.4	1424.0	1383.7	1253.4	1211.2
82.5°	458.0	421.6	498.3	580.7	582.6	645.9	983.2	1079.0	988.9	829.8	793.4
85°	239.6	247.2	343.1	408.2	360.3	348.8	590.3	653.5	599.9	521.3	469.5
87.5°	86.2	99.7	180.2	178.2	126.5	67.1	130.3	63.2	34.5	21.1	26.8
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)