

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: P454446

Luminaire Tested: **GALN-SA5C-740-U-T3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454446
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-SA5C-740-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34914 lumens
Efficiency: N/A
Efficacy: 129.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

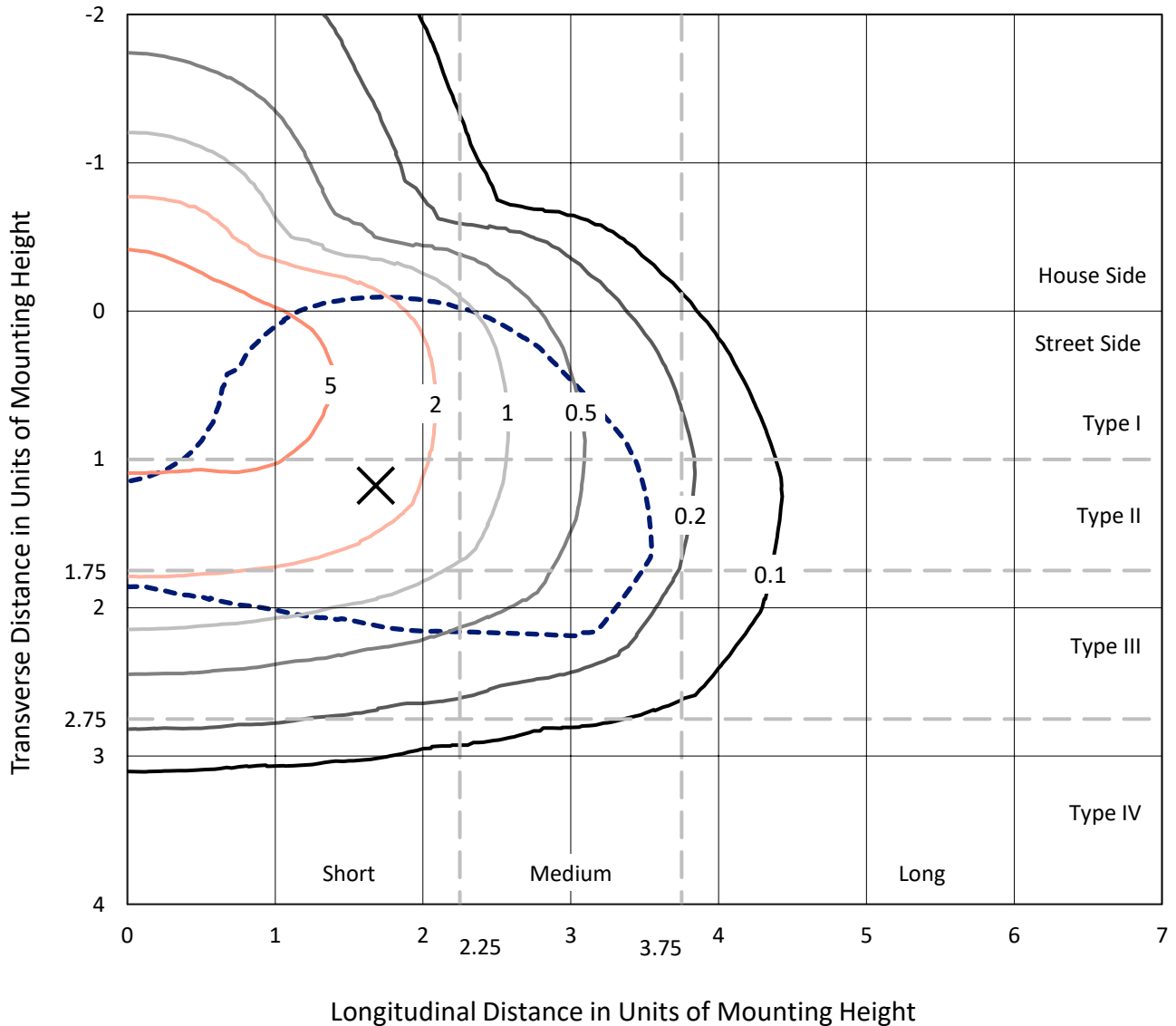
Input Watts (W): 269
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

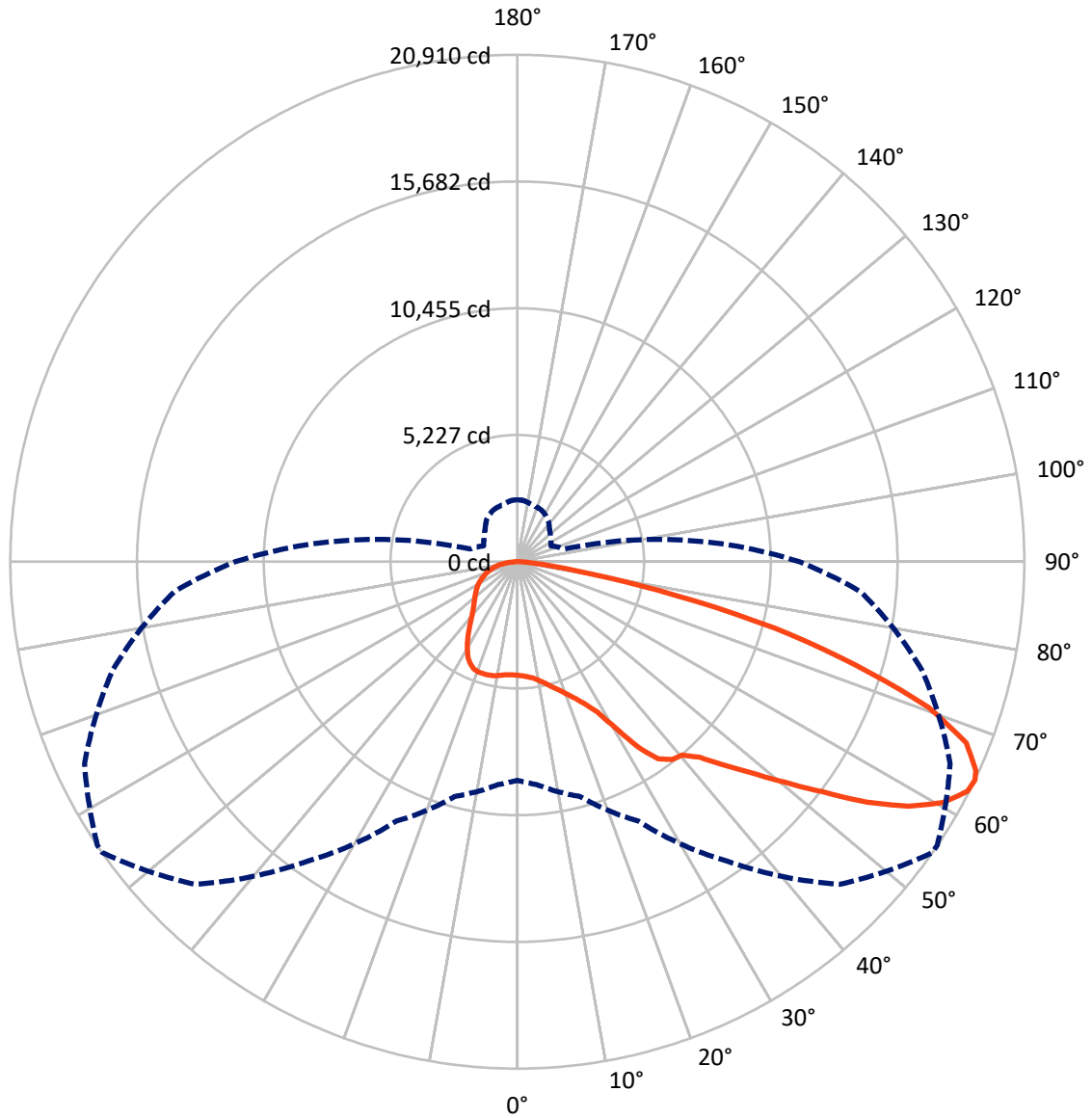
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.6 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	8481.3	0.0	8481.3
	% Fixture	24.3	0.0	24.3
Street Side	Lumens	26432.7	0.0	26432.7
	% Fixture	75.7	0.0	75.7
Total	Lumens	34914.0	0.0	34914.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	455.7	1.3
10°-20°	1437.8	4.1
20°-30°	2559.6	7.3
30°-40°	3938.2	11.3
40°-50°	5582.8	16.0
50°-60°	8080.9	23.1
60°-70°	8362.9	24.0
70°-80°	3916.4	11.2
80°-90°	579.8	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°	34914.0	100.0
0°-180°	34914.0	100.0

Coefficient of Utilization



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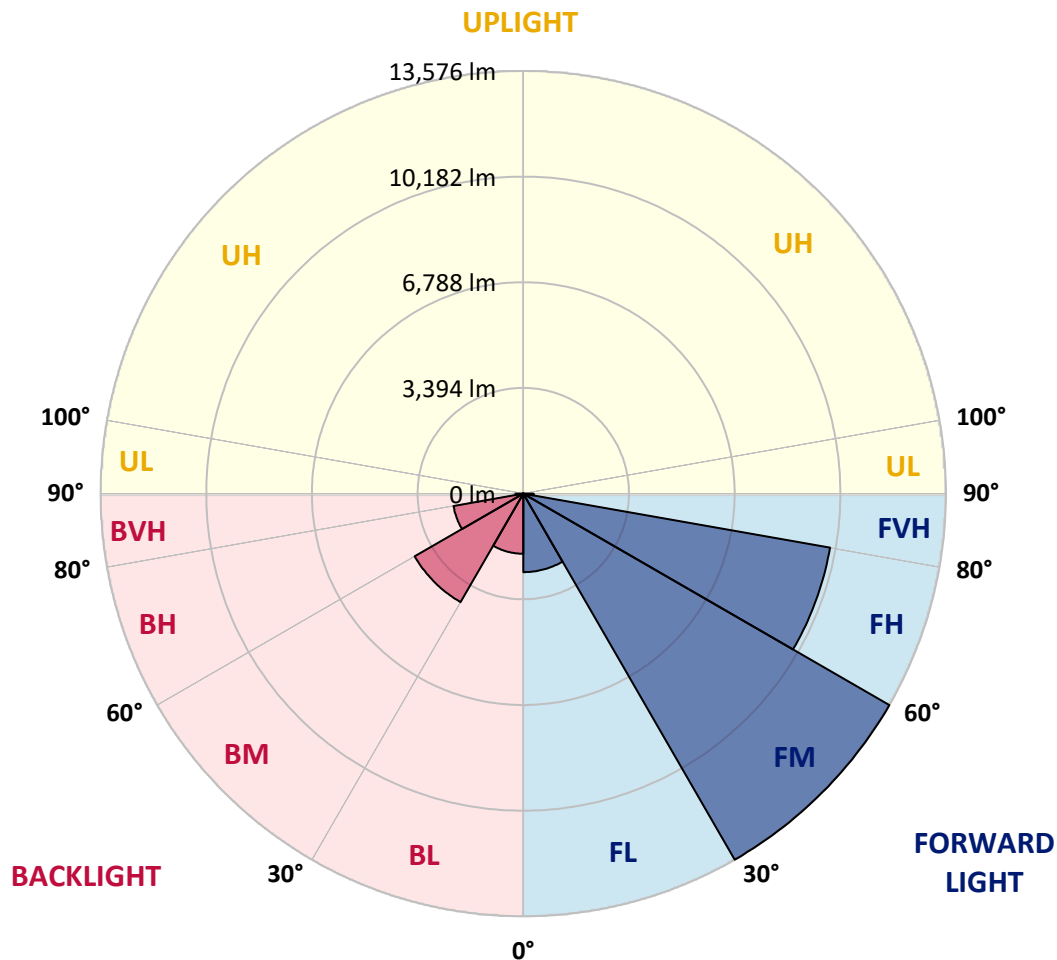
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2521.3	7.2			
FM	(30°-60°)	13575.5	38.9			
FH	(60°-80°)	10003.9	28.7			G4/12000
FVH	(80°-90°)	332.0	1.0			G3/500
BL	(0°-30°)	1931.7	5.5	B3/2500		
BM	(30°-60°)	4026.4	11.5	B3/5000		
BH	(60°-80°)	2275.4	6.5	B3/2500		G3/2500
BVH	(80°-90°)	247.8	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°	4684.4	4684.4	4684.4	4684.4	4684.4	4684.4	4684.4	4684.4	4684.4	4684.4	4684.4
2.5°	4737.0	4735.0	4740.8	4735.0	4738.9	4725.3	4719.4	4723.3	4717.5	4707.8	4690.2
5°	4795.3	4793.4	4795.3	4787.6	4791.4	4783.7	4770.0	4773.9	4764.2	4742.8	4717.5
7.5°	4894.6	4886.8	4886.8	4884.9	4877.1	4865.4	4855.7	4851.8	4842.0	4814.8	4775.9
10°	5023.0	5023.0	5025.0	5009.4	5019.1	4997.7	4988.0	4986.1	4953.0	4917.9	4863.5
12.5°	5192.4	5202.1	5196.2	5188.5	5184.6	5176.8	5143.7	5151.5	5114.5	5054.2	4988.0
15°	5402.5	5418.1	5408.4	5404.5	5394.8	5365.6	5351.9	5346.1	5297.4	5209.9	5122.3
17.5°	5680.8	5661.4	5653.6	5643.9	5603.0	5581.6	5558.2	5554.3	5511.5	5408.4	5272.1
20°	5924.1	5951.4	5935.8	5926.1	5885.2	5844.3	5826.8	5821.0	5784.0	5671.1	5453.1
22.5°	6214.1	6219.9	6225.8	6202.4	6182.9	6151.8	6120.7	6110.9	6097.3	5980.5	5713.9
25°	6523.5	6546.9	6527.4	6504.1	6480.7	6478.8	6508.0	6504.1	6498.2	6385.3	6060.3
27.5°	7027.6	7049.0	7054.8	7029.5	6940.0	6947.8	7014.0	7035.4	7124.9	6938.1	6506.0
30°	7311.7	7333.1	7381.8	7477.1	7619.2	7743.8	7903.4	7952.0	8037.6	7685.4	7035.4
32.5°	7486.9	7494.7	7582.2	7759.3	8185.5	8650.7	9084.7	9102.2	9156.7	8662.4	7520.0
35°	7763.2	7769.1	7839.1	8033.7	8533.9	9308.5	9979.9	10001.3	9956.6	8966.0	7745.7
37.5°	8103.8	8119.4	8164.1	8325.7	8923.1	9859.2	10351.6	10336.1	9939.0	9207.3	8144.7
40°	8600.1	8600.1	8547.5	8765.5	9333.8	10174.5	10482.0	10454.8	10349.7	9905.9	8751.9
42.5°	9038.0	9030.2	9154.7	9302.6	9847.6	10661.1	11028.9	11073.6	11246.9	10783.7	9442.8
45°	9608.2	9643.2	9713.3	9981.9	10721.4	11492.1	11966.9	12009.7	12255.0	11817.1	10250.4
47.5°	10184.3	10195.9	10415.8	10773.9	11803.5	12618.9	13008.1	13078.2	13302.0	13025.6	11120.4
50°	10592.9	10703.9	11056.1	11620.5	12918.6	13992.9	14296.5	14380.2	14775.2	14341.2	12134.3
52.5°	11025.0	11134.0	11564.1	12424.3	14199.2	15398.0	15771.7	15828.1	16238.8	15672.4	13171.6
55°	11394.8	11496.0	11984.4	13136.6	15219.0	16832.3	17509.6	17443.4	17640.0	16698.0	13971.5
57.5°	11455.1	11536.8	12151.8	13592.0	15985.8	18062.3	19033.4	19072.4	18844.7	17464.8	14631.2
60°	10988.0	11155.4	11861.8	13543.3	16330.2	18918.6	20170.0	20197.2	19551.1	17858.0	14894.0
62.5°	10160.9	10143.4	10997.7	12761.0	15847.6	19113.2	20839.5	20810.3	19827.5	17669.2	14639.0
64°	9018.5	9228.7	10026.6	11799.6	15069.1	18813.5	20909.5	20894.0	19695.1	17276.1	14205.0
65°	8321.8	8310.1	9098.3	11013.3	14294.5	18362.0	20785.0	20763.6	19418.8	16923.8	13868.3
67.5°	6007.8	6035.0	6813.5	8498.9	11620.5	16596.8	19973.4	19893.6	18328.9	15756.1	12587.8
70°	3639.3	3654.9	4266.0	5638.0	8341.2	13416.8	18003.9	18007.8	16661.1	14012.3	10713.6
72.5°	1917.0	1957.8	2203.1	3201.4	5065.9	9413.6	14605.9	14952.3	14304.3	11959.1	8463.8
75°	1066.5	1072.3	1245.5	1578.3	2584.5	5268.3	10978.3	11077.5	11324.7	9625.7	6258.8
77.5°	813.5	825.2	879.7	1019.8	1407.1	2442.4	6644.2	7142.4	7981.2	6786.3	3571.2
80°	659.7	671.4	718.1	801.8	936.1	1158.0	3086.6	3355.2	4271.8	3012.7	1393.4
82.5°	513.8	506.0	566.3	620.8	681.2	685.0	1266.9	1401.2	1739.9	1296.1	603.3
85°	381.4	381.4	430.1	418.4	439.8	400.9	558.5	616.9	696.7	550.8	280.2
87.5°	151.8	167.4	282.2	253.0	196.6	157.6	206.3	218.0	241.3	216.0	116.8
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°	4684.4	4684.4	4684.4	4684.4	4684.4	4684.4	4684.4	4684.4	4684.4	4684.4	4684.4
2.5°	4692.2	4698.0	4684.4	4674.7	4670.8	4664.9	4659.1	4661.1	4668.8	4676.6	4674.7
5°	4715.5	4717.5	4694.1	4682.5	4674.7	4666.9	4666.9	4672.7	4688.3	4700.0	4700.0
7.5°	4773.9	4773.9	4740.8	4719.4	4707.8	4694.1	4690.2	4692.2	4703.9	4719.4	4721.4
10°	4865.4	4857.6	4814.8	4781.7	4760.3	4727.2	4698.0	4682.5	4688.3	4698.0	4698.0
12.5°	4976.3	4954.9	4900.4	4855.7	4803.1	4740.8	4680.5	4649.4	4647.4	4657.2	4653.3
15°	5095.0	5071.7	4995.8	4914.1	4822.6	4731.1	4659.1	4614.3	4579.3	4569.6	4591.0
17.5°	5233.2	5184.6	5079.5	4966.6	4830.4	4711.7	4598.8	4507.3	4445.0	4427.5	4433.4
20°	5400.6	5336.4	5194.3	5017.2	4824.5	4641.6	4466.4	4343.8	4242.6	4211.5	4215.4
22.5°	5632.2	5521.3	5313.0	5042.5	4775.9	4509.3	4266.0	4106.4	3983.8	3935.1	3964.3
25°	5894.9	5774.3	5425.9	5036.7	4649.4	4297.1	4028.5	3820.3	3709.4	3637.4	3652.9
27.5°	6256.9	6042.8	5546.6	4984.1	4468.4	4038.3	3726.9	3530.3	3429.1	3392.2	3409.7
30°	6720.1	6391.2	5676.9	4842.0	4182.3	3711.3	3423.3	3294.8	3234.5	3187.8	3203.4
32.5°	7054.8	6636.4	5706.1	4602.7	3872.9	3413.6	3217.0	3121.6	3055.5	3010.7	3020.4
35°	7294.2	6844.6	5692.5	4308.8	3549.8	3168.3	3053.5	2975.7	2868.6	2771.3	2753.8
37.5°	7615.3	7105.4	5593.3	3987.7	3230.6	3002.9	2921.2	2777.2	2623.4	2493.0	2487.2
40°	8107.7	7411.0	5381.1	3610.1	2958.2	2880.3	2781.1	2594.2	2428.8	2323.7	2315.9
42.5°	8615.6	7693.2	5093.1	3213.1	2734.4	2751.9	2631.2	2446.3	2345.1	2277.0	2269.2
45°	9236.5	7998.7	4781.7	2868.6	2568.9	2631.2	2500.8	2393.8	2333.4	2288.7	2277.0
47.5°	9907.9	8312.0	4431.4	2559.2	2428.8	2520.3	2446.3	2397.7	2364.6	2333.4	2319.8
50°	10631.9	8662.4	4102.5	2310.1	2302.3	2405.5	2440.5	2423.0	2403.5	2393.8	2382.1
52.5°	11425.9	9020.4	3826.1	2134.9	2191.4	2323.7	2442.4	2456.1	2456.1	2450.2	2442.4
55°	11963.0	9269.6	3545.9	1992.9	2078.5	2257.5	2438.5	2491.1	2510.5	2502.8	2495.0
57.5°	12360.1	9405.8	3193.6	1870.3	1983.1	2193.3	2417.1	2495.0	2514.4	2524.2	2520.3
60°	12441.8	9279.3	2732.4	1741.8	1880.0	2099.9	2339.3	2436.6	2461.9	2522.2	2528.1
62.5°	12074.0	8890.1	2273.1	1615.3	1753.5	1957.8	2234.2	2370.4	2421.0	2514.4	2524.2
64°	11622.5	8454.1	2018.2	1535.5	1671.8	1878.0	2181.6	2352.9	2419.1	2543.6	2551.4
65°	11291.6	8136.9	1858.6	1484.9	1619.2	1825.5	2152.5	2358.7	2436.6	2588.4	2600.1
67.5°	10073.3	7045.1	1537.5	1366.2	1494.7	1736.0	2158.3	2407.4	2432.7	2605.9	2604.0
70°	8335.4	5608.8	1288.4	1257.2	1374.0	1664.0	2134.9	2329.6	2331.5	2446.3	2419.1
72.5°	6241.3	4145.3	1117.1	1144.3	1239.7	1492.7	2016.2	2224.5	2191.4	2206.9	2179.7
75°	4287.4	2742.1	961.4	1023.7	1099.6	1319.5	1848.9	2020.1	1967.6	1948.1	1928.6
77.5°	2288.7	1516.1	799.9	905.0	955.6	1140.4	1613.4	1778.8	1724.3	1648.4	1623.1
80°	926.4	714.2	644.2	749.3	778.5	918.6	1342.8	1446.0	1405.1	1272.8	1230.0
82.5°	465.1	428.2	506.0	589.7	591.6	655.9	998.4	1095.7	1004.2	842.7	805.7
85°	243.3	251.1	348.4	414.5	365.9	354.2	599.4	663.6	609.1	529.4	476.8
87.5°	87.6	101.2	182.9	181.0	128.4	68.1	132.3	64.2	35.0	21.4	27.2
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)