

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: P522860

Luminaire Tested: **GALN-SA7D-740-U-T4W**

Issue Date: 5/13/2021

Test Information

Test Method: LM-79-08
Report Number: P522860
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2011-042-41)
Test Lab: INNOVATION CENTER
Issue Date: 5/13/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA7D-740-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 53921 lumens
Efficiency: N/A
Efficacy: 124.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

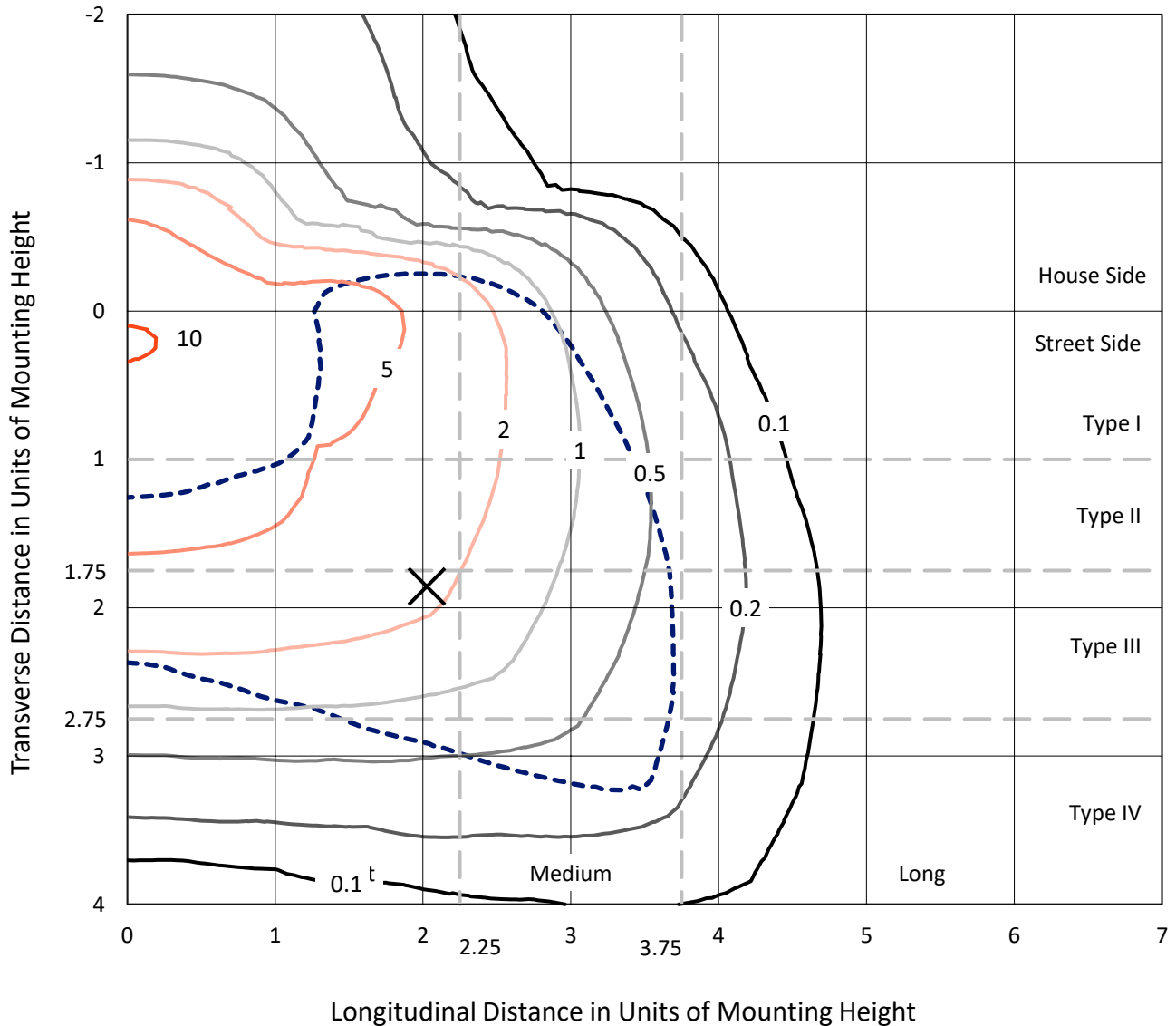
Input Watts (W): 433
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

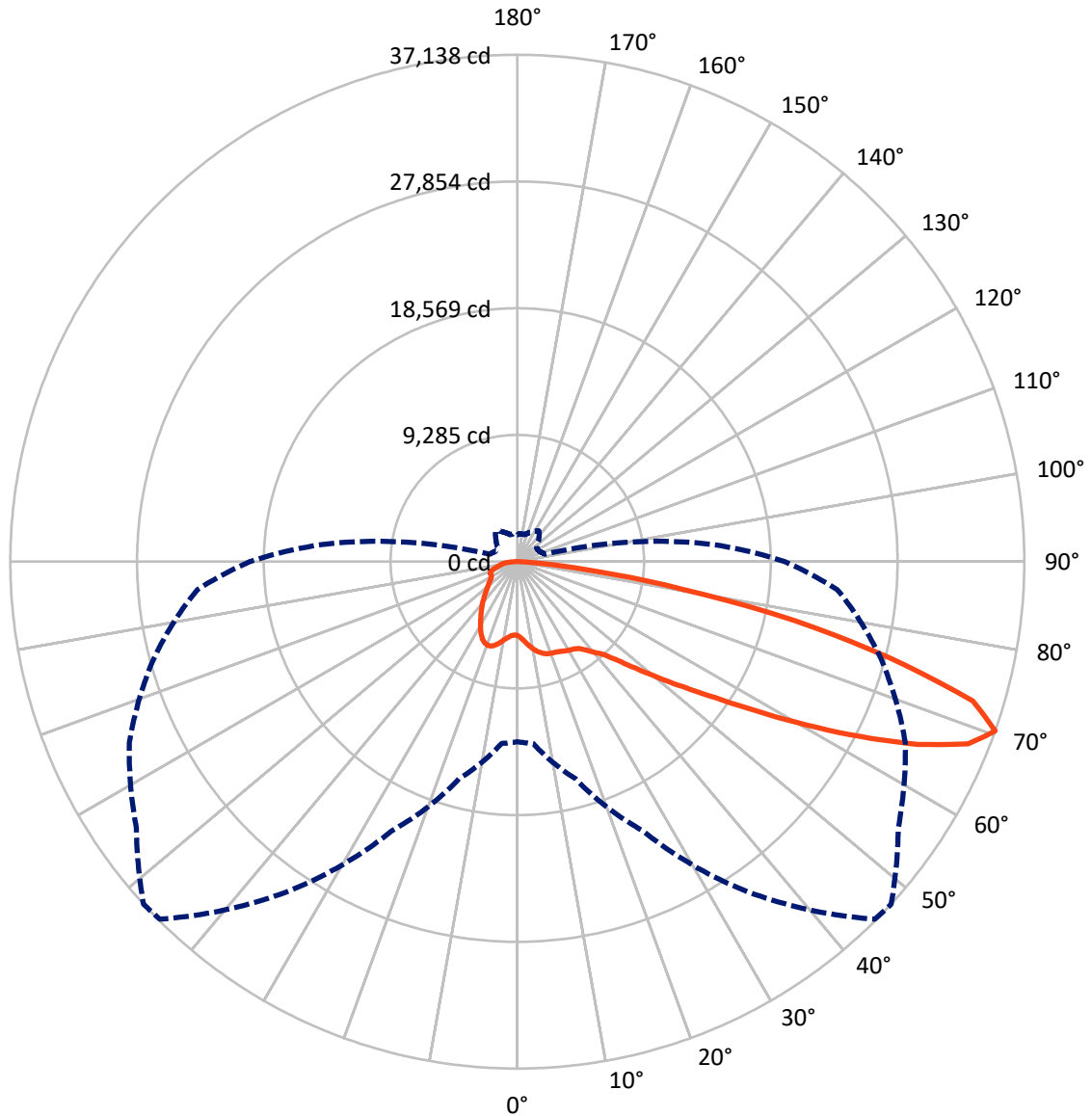
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 47.5-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12208.7	0.0	12208.7
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	41712.2	0.0	41712.2
	% Fixture	77.4	0.0	77.4
Total	Lumens	53921.0	0.0	53921.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	558.0	1.0
10°-20°	1865.3	3.5
20°-30°	3102.0	5.8
30°-40°	4396.7	8.2
40°-50°	6490.4	12.0
50°-60°	11241.7	20.8
60°-70°	15879.2	29.4
70°-80°	9128.2	16.9
80°-90°	1259.5	2.3
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°	53921.0	100.0
0°-180°	53921.0	100.0

Coefficient of Utilization



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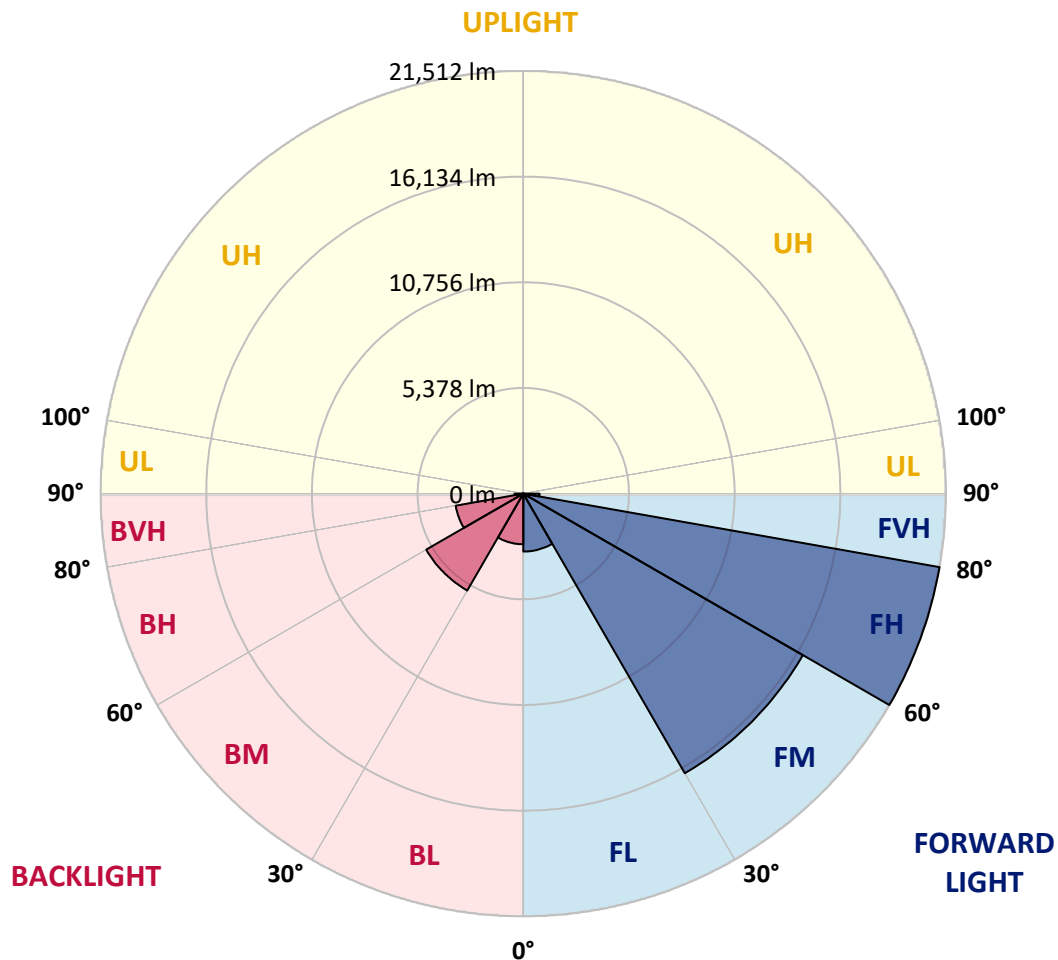
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2948.6	5.5			
FM	(30°-60°)	16428.7	30.5			
FH	(60°-80°)	21512.2	39.9			G5
FVH	(80°-90°)	822.7	1.5			G5
BL	(0°-30°)	2576.7	4.8	B4/5000		
BM	(30°-60°)	5700.1	10.6	B4/8500		
BH	(60°-80°)	3495.2	6.5	B4/5000		G4/5000
BVH	(80°-90°)	436.7	0.8			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47.5°	55°	65°	75°	85°
0°	5413.0	5413.0	5413.0	5413.0	5413.0	5413.0	5413.0	5413.0	5413.0	5413.0	5413.0
2.5°	5762.2	5742.0	5739.1	5695.8	5672.7	5629.4	5612.1	5571.7	5522.7	5473.6	5427.4
5°	6215.2	6215.2	6195.0	6134.4	6039.2	5941.0	5897.8	5819.9	5681.4	5568.8	5473.6
7.5°	6679.7	6685.5	6645.1	6555.6	6420.0	6261.3	6220.9	6105.5	5909.3	5744.8	5603.5
10°	7080.8	7080.8	7026.0	6904.8	6734.5	6561.4	6521.0	6391.2	6171.9	5967.0	5782.4
12.5°	7386.6	7386.6	7314.5	7155.8	6971.1	6815.3	6769.2	6645.1	6440.2	6212.3	5978.6
15°	7585.7	7571.3	7490.5	7311.6	7132.7	6997.1	6965.4	6861.5	6673.9	6443.1	6180.5
17.5°	7594.4	7588.6	7510.7	7360.7	7204.9	7112.5	7092.3	7023.1	6875.9	6656.6	6379.6
20°	7427.0	7438.6	7386.6	7279.9	7204.9	7164.5	7155.8	7132.7	7028.8	6824.0	6547.0
22.5°	7248.1	7268.3	7219.3	7161.6	7155.8	7196.2	7202.0	7207.7	7141.4	6942.3	6688.4
25°	7204.9	7219.3	7170.2	7118.3	7150.0	7256.8	7279.9	7303.0	7251.0	7083.7	6855.7
27.5°	7424.1	7412.6	7317.4	7204.9	7225.1	7369.3	7401.1	7427.0	7401.1	7256.8	7063.5
30°	8044.5	8007.0	7816.6	7487.6	7383.8	7484.7	7516.5	7588.6	7588.6	7481.9	7288.5
32.5°	9083.3	9011.1	8662.0	8015.7	7655.0	7594.4	7626.1	7744.4	7805.0	7721.3	7510.7
35°	10344.2	10269.2	9770.0	8901.5	8151.3	7813.7	7805.0	7937.7	8099.3	7911.8	7637.7
37.5°	11610.9	11533.0	10932.8	9957.5	8875.5	8275.3	8223.4	8269.6	8338.8	7995.5	7813.7
40°	12877.6	12785.2	12260.1	11137.7	9761.3	8887.0	8751.4	8543.7	8514.8	8269.6	8154.2
42.5°	14132.7	14049.0	13783.6	12462.1	10823.2	9484.3	9276.6	8918.8	9028.4	8881.3	8780.3
45°	15399.4	15405.2	15122.4	13948.0	12104.3	10586.6	10306.7	9746.9	10006.6	9951.8	10009.5
47.5°	16521.8	16507.4	16406.4	15390.7	13694.1	12006.2	11645.5	10996.3	11440.6	11642.6	12084.1
50°	17609.6	17601.0	17606.7	17026.8	15540.8	13694.1	13295.9	12615.0	13616.2	14317.4	15108.0
52.5°	19167.7	19216.8	18867.7	18714.7	17785.6	15687.9	15249.4	14545.3	16187.1	17292.2	18835.9
55°	20731.6	20691.2	20417.1	20575.8	20134.4	18048.2	17589.4	17029.7	19049.4	20258.4	22578.3
57.5°	21652.1	21666.5	21946.4	22722.6	23034.2	20991.3	20575.8	20143.0	22266.7	23123.6	25908.1
60°	22480.2	22546.6	23351.6	24817.4	25662.8	24606.7	24237.4	23816.1	25218.4	25558.9	28799.2
62.5°	22739.9	22944.7	24349.9	26542.8	28225.0	28686.7	28227.9	27298.8	28028.8	27896.1	30758.4
65°	21444.3	21724.2	24243.2	27189.2	30513.2	32558.9	32267.5	30542.0	30423.7	29624.5	31078.7
67.5°	18033.8	18313.7	21548.2	25833.0	31459.6	35911.7	35620.3	32908.0	31878.0	29786.0	28655.0
70°	13195.0	13371.0	16464.1	21750.2	29558.1	37037.1	37138.0	34062.2	31358.6	27590.2	23527.6
72.5°	7603.0	7992.6	10159.5	15301.3	24148.0	34192.0	34893.2	31661.5	28075.0	23016.9	16449.7
75°	3269.2	3277.8	4697.4	8439.8	16354.5	27483.5	28161.6	26245.6	22047.4	15915.9	8783.2
77.5°	1555.2	1584.1	2065.9	3768.3	9002.5	18988.8	20818.2	18541.6	14101.0	7646.3	3318.2
80°	1009.9	1030.1	1263.8	1869.7	4414.7	11010.7	12286.1	10696.2	6220.9	2732.5	1431.2
82.5°	611.7	617.5	845.4	1142.6	2429.5	4986.0	5877.6	4642.6	2654.6	1636.0	842.5
85°	372.2	375.1	513.6	706.9	1474.4	1722.6	1768.8	1754.3	1558.1	1070.5	450.1
87.5°	178.9	184.7	265.5	334.7	580.0	533.8	504.9	585.7	735.8	577.1	193.3
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°	5413.0	5413.0	5413.0	5413.0	5413.0	5413.0	5413.0	5413.0	5413.0	5413.0	5413.0
2.5°	5407.2	5398.6	5378.4	5369.7	5364.0	5366.9	5364.0	5364.0	5366.9	5366.9	5366.9
5°	5433.2	5418.8	5387.1	5387.1	5404.4	5444.8	5482.3	5511.1	5542.9	5540.0	5540.0
7.5°	5545.7	5519.8	5482.3	5493.8	5537.1	5600.6	5666.9	5730.4	5793.9	5799.7	5796.8
10°	5710.2	5684.2	5643.9	5658.3	5727.5	5822.7	5906.4	5998.8	6068.0	6088.2	6082.4
12.5°	5897.8	5845.8	5811.2	5851.6	5961.2	6088.2	6169.0	6238.2	6287.3	6316.2	6304.6
15°	6088.2	6039.2	5998.8	6082.4	6215.2	6333.5	6373.9	6385.4	6394.1	6422.9	6417.1
17.5°	6272.9	6206.5	6192.1	6301.7	6428.7	6480.6	6457.5	6408.5	6371.0	6394.1	6391.2
20°	6437.3	6385.4	6379.6	6489.3	6538.3	6489.3	6391.2	6304.6	6238.2	6244.0	6241.1
22.5°	6593.2	6552.8	6558.5	6604.7	6526.8	6359.4	6197.8	6079.5	6007.4	6021.8	6030.5
25°	6766.3	6725.9	6740.3	6665.3	6408.5	6117.1	5883.3	5782.4	5753.5	5782.4	5802.5
27.5°	6991.3	6965.4	6956.7	6668.2	6197.8	5759.3	5493.8	5456.3	5482.3	5545.7	5577.5
30°	7233.7	7233.7	7187.5	6619.1	5909.3	5329.3	5098.5	5104.3	5193.7	5283.2	5314.9
32.5°	7467.4	7516.5	7372.2	6486.4	5537.1	4911.0	4734.9	4740.7	4818.6	4928.3	4957.1
35°	7660.8	7802.1	7530.9	6244.0	5098.5	4558.9	4426.2	4348.3	4351.2	4434.9	4458.0
37.5°	7926.2	8188.8	7623.2	5883.3	4631.1	4258.9	4108.8	3973.2	3883.8	3849.1	3849.1
40°	8387.9	8774.5	7646.3	5349.5	4189.6	3973.2	3759.7	3598.1	3425.0	3269.2	3240.3
42.5°	9169.8	9657.5	7600.2	4734.9	3791.4	3658.7	3450.9	3251.9	3012.4	2793.1	2775.8
45°	10554.8	10805.8	7476.1	4097.3	3436.5	3355.7	3153.7	2937.3	2683.4	2487.2	2472.8
47.5°	12773.7	12418.8	7311.6	3531.7	3113.4	3090.3	2934.5	2683.4	2429.5	2293.9	2279.5
50°	16014.0	14957.9	7288.5	3122.0	2853.7	2865.2	2738.2	2507.4	2285.2	2172.7	2155.4
52.5°	19915.1	18025.1	7441.5	2833.5	2625.7	2669.0	2605.5	2392.0	2195.8	2100.6	2083.3
55°	23700.7	20783.6	7533.8	2608.4	2412.2	2493.0	2501.6	2322.8	2143.9	2048.6	2037.1
57.5°	26773.7	22861.1	7124.1	2403.5	2227.5	2351.6	2415.1	2282.4	2117.9	2045.8	2034.2
60°	28911.8	23842.1	5958.4	2221.8	2091.9	2239.1	2383.3	2285.2	2181.4	2190.0	2195.8
62.5°	29592.7	23406.4	4469.5	2086.1	1999.6	2201.6	2435.3	2403.5	2296.8	2363.1	2374.7
65°	28464.5	21605.9	3240.3	1979.4	1918.8	2227.5	2591.1	2490.1	2256.4	2305.4	2305.4
67.5°	24687.5	18613.7	2521.8	1881.3	1826.5	2276.6	2746.9	2481.4	2161.2	2218.9	2166.9
70°	19583.2	14398.2	2100.6	1771.6	1728.4	2204.4	2761.3	2392.0	2048.6	2060.2	1962.1
72.5°	12995.9	9467.0	1806.3	1667.8	1578.3	1982.3	2643.0	2276.6	1939.0	1872.6	1774.5
75°	6368.1	4720.5	1575.4	1537.9	1382.1	1725.5	2481.4	2166.9	1820.7	1716.8	1662.0
77.5°	2467.0	2008.2	1344.6	1373.5	1203.2	1520.6	2267.9	2011.1	1664.9	1523.5	1480.2
80°	1197.4	1139.7	1102.2	1145.5	989.7	1295.5	2071.7	1875.5	1520.6	1364.8	1301.3
82.5°	744.4	704.0	845.4	891.6	761.7	1183.0	1965.0	1760.1	1338.8	1131.1	1079.1
85°	378.0	404.0	565.5	608.8	545.3	940.6	1618.7	1321.5	966.6	802.1	807.9
87.5°	144.3	193.3	297.2	320.3	291.4	496.3	891.6	770.4	620.4	421.3	389.5
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)