

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: P458394

Luminaire Tested: **GALN-SA9D-740-U-T4FT**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458394
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-28)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9D-740-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 69976 lumens
Efficiency: N/A
Efficacy: 126.8 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

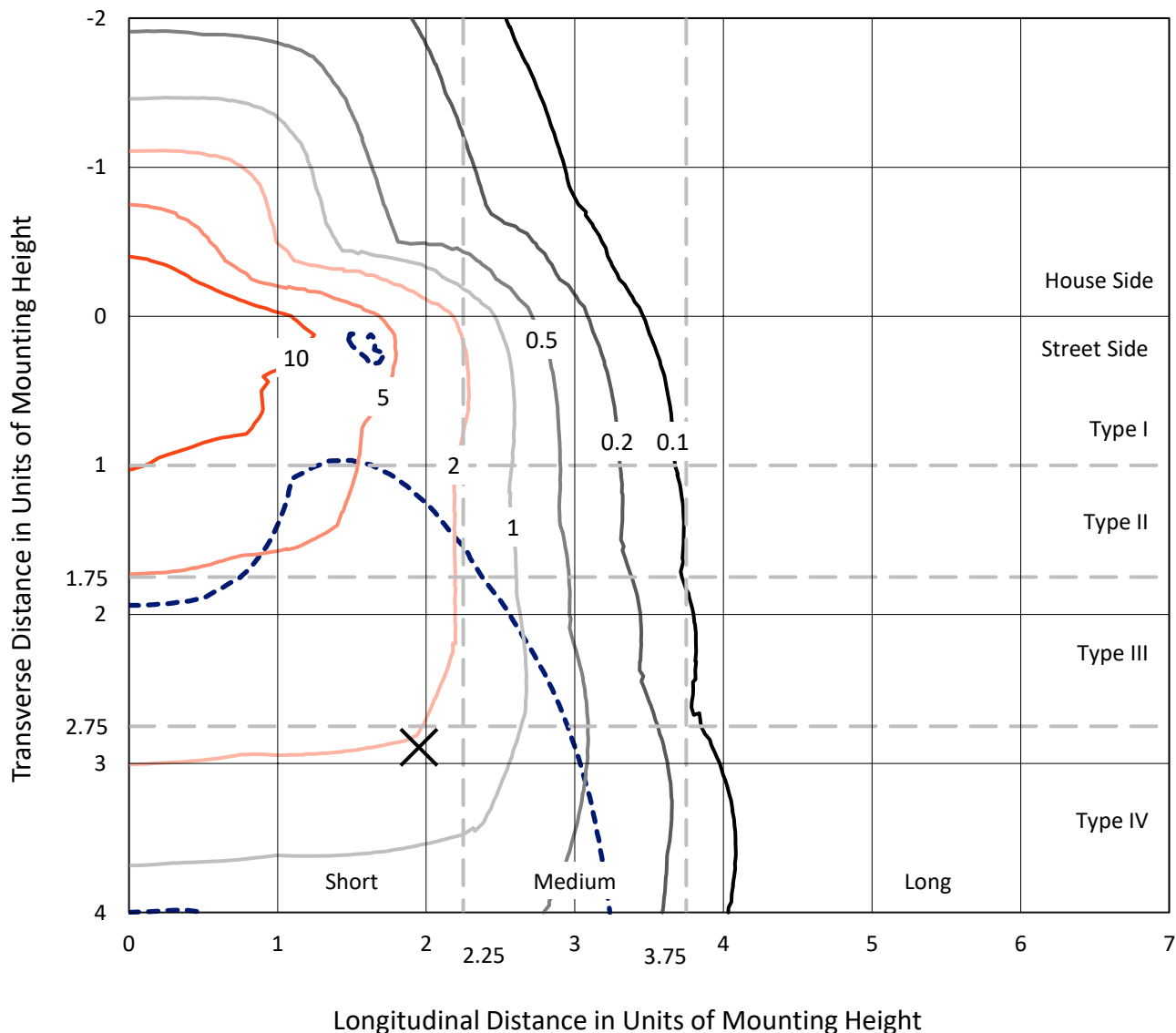
Input Watts (W): 552
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

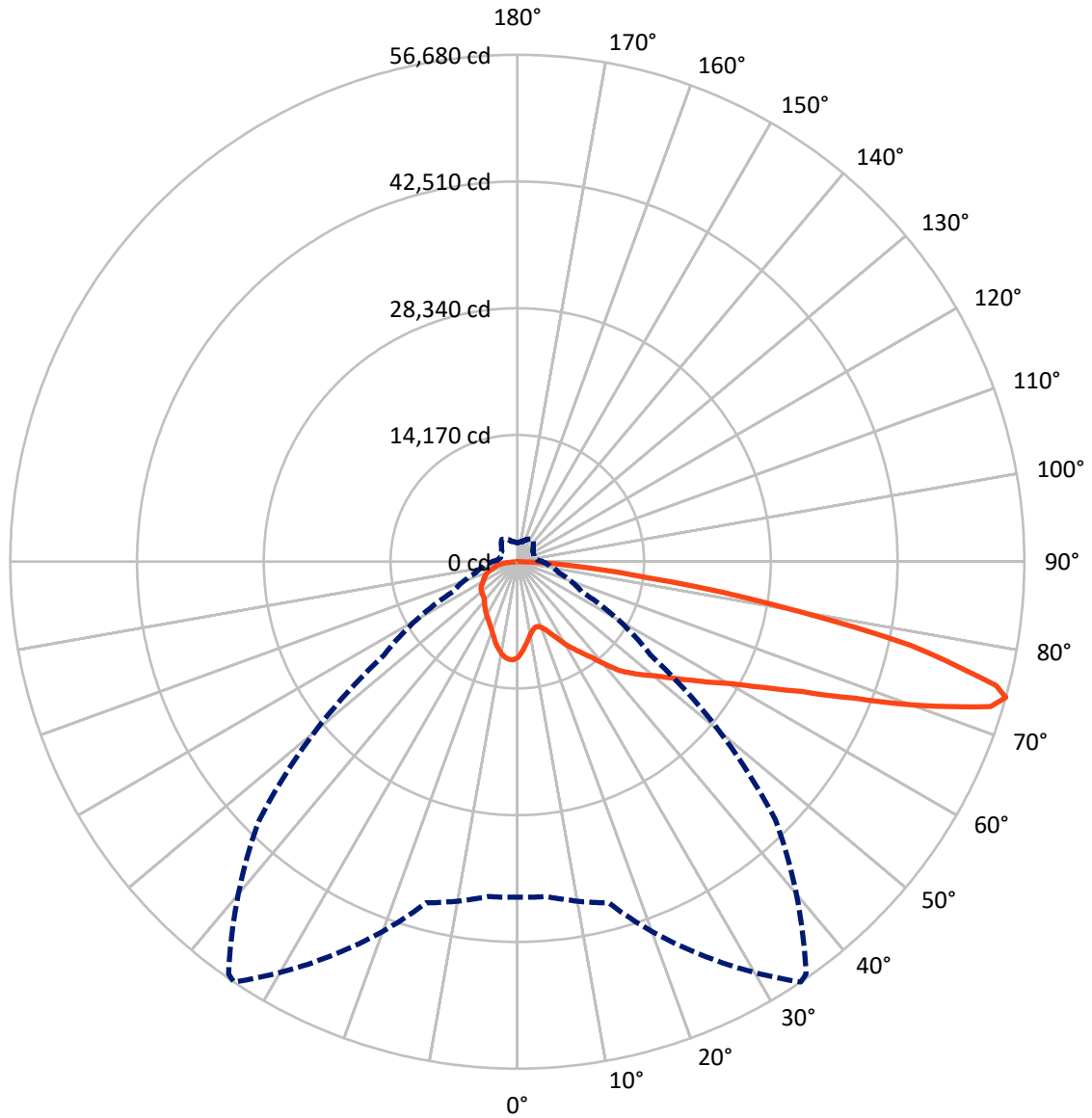
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.1 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral - - - Horizontal Cone Through 74-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14891.4	0.0	14891.4
	% Fixture	21.3	0.0	21.3
Street Side	Lumens	55084.6	0.0	55084.6
	% Fixture	78.7	0.0	78.7
Total	Lumens	69976.0	0.0	69976.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	971.7	1.4
10°-20°	2659.9	3.8
20°-30°	4385.4	6.3
30°-40°	6568.9	9.4
40°-50°	9549.4	13.6
50°-60°	13338.2	19.1
60°-70°	16698.7	23.9
70°-80°	13808.5	19.7
80°-90°	1995.2	2.9
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°	69976.0	100.0
0°-180°	69976.0	100.0

Coefficient of Utilization



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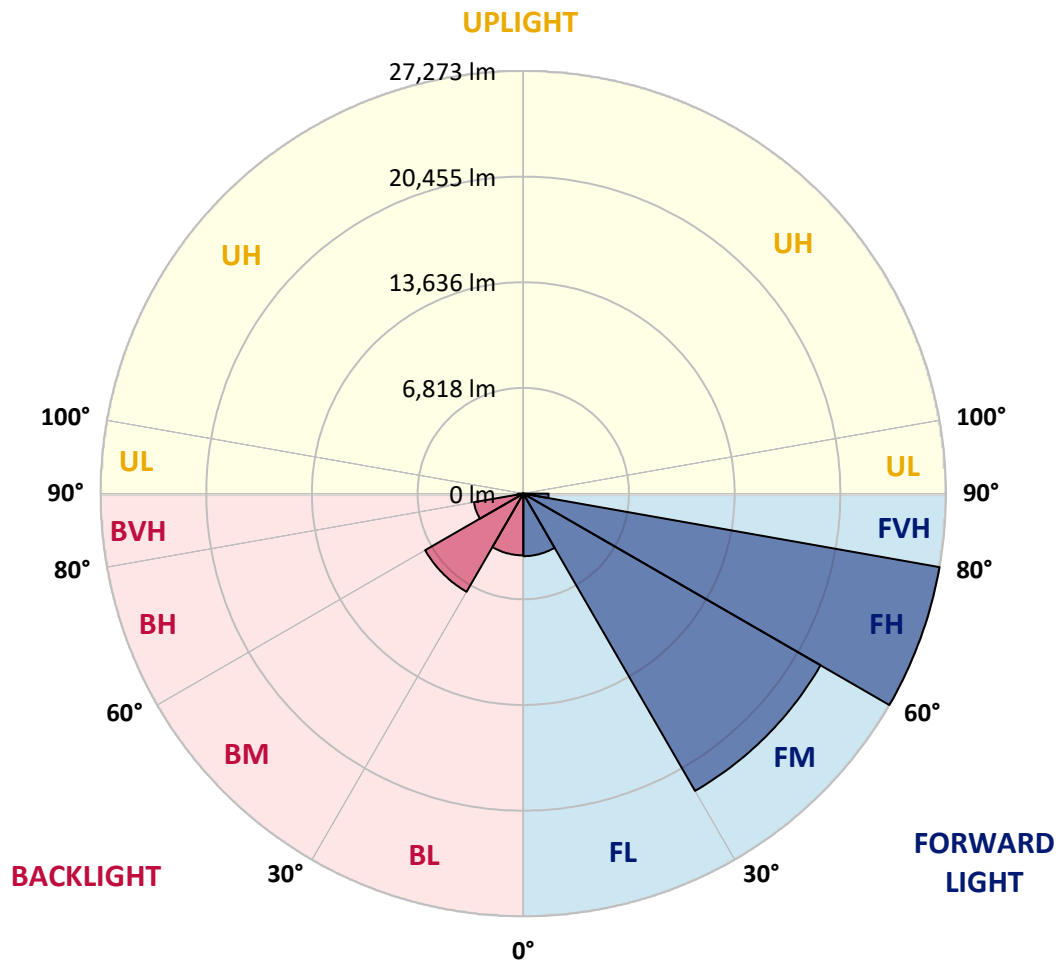
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4033.8	5.8			
FM	(30°-60°)	22143.3	31.6			
FH	(60°-80°)	27272.9	39.0			G5
FVH	(80°-90°)	1634.6	2.3			G5
BL	(0°-30°)	3983.2	5.7	B4/5000		
BM	(30°-60°)	7313.2	10.5	B4/8500		
BH	(60°-80°)	3234.3	4.6	B4/5000		G4/5000
BVH	(80°-90°)	360.7	0.5			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°	34°	35°	45°	55°	65°	75°	85°
0°	10684.0	10684.0	10684.0	10684.0	10684.0	10684.0	10684.0	10684.0	10684.0	10684.0	10684.0
2.5°	9873.7	9924.1	9951.3	10048.2	10071.4	10102.5	10183.9	10292.4	10432.0	10556.0	10664.6
5°	9051.9	9129.4	9175.9	9261.2	9427.9	9443.4	9660.5	9908.6	10191.6	10455.2	10672.3
7.5°	8272.7	8358.0	8396.7	8551.8	8772.8	8807.7	9125.6	9517.1	9990.0	10389.3	10722.7
10°	7687.3	7730.0	7815.3	7931.6	8195.2	8218.4	8633.2	9156.6	9769.1	10358.3	10808.0
12.5°	7369.4	7392.7	7412.1	7536.1	7795.9	7830.8	8264.9	8858.1	9594.6	10381.6	10947.6
15°	7416.0	7423.7	7338.4	7361.7	7571.0	7621.4	8051.7	8660.4	9486.1	10439.7	11156.9
17.5°	7807.5	7780.4	7571.0	7462.5	7609.8	7633.1	8009.1	8582.8	9435.7	10548.3	11374.0
20°	8423.9	8385.1	8024.6	7784.2	7869.5	7888.9	8148.6	8641.0	9486.1	10726.6	11711.3
22.5°	9191.5	9175.9	8629.3	8338.6	8334.7	8334.7	8470.4	8850.3	9637.3	10970.8	12064.0
25°	10265.3	10183.9	9470.6	9094.5	8989.9	8982.1	8966.6	9195.3	9831.1	11230.6	12482.7
27.5°	11366.2	11226.7	10590.9	10013.3	9788.5	9761.3	9660.5	9683.8	10079.2	11525.2	12959.5
30°	12354.8	12265.6	11668.6	11029.0	10761.5	10699.5	10420.3	10292.4	10494.0	12056.3	13719.3
32.5°	13110.7	13056.4	12591.2	12009.8	11614.3	11602.7	11195.7	11091.0	11141.4	12699.8	14587.7
35°	13723.2	13742.6	13506.1	13002.2	12548.6	12482.7	12211.3	12079.5	11932.2	13630.2	15680.9
37.5°	14560.6	14603.2	14587.7	14153.5	13599.2	13614.7	13552.6	13335.6	12944.0	14669.1	16894.3
40°	15483.2	15514.2	15510.3	15343.6	15052.9	15068.4	15045.1	14797.0	14211.7	15991.0	18243.4
42.5°	16758.6	16611.3	16227.5	16394.2	16564.8	16638.4	16797.4	16560.9	15758.4	17402.1	19511.0
45°	18185.2	17906.1	17037.7	17115.3	17747.1	17886.7	18762.8	18437.2	17437.0	19022.6	21003.5
47.5°	19084.6	18809.3	18076.7	18061.1	18898.5	19034.2	20584.8	20464.7	18964.4	20770.9	22825.5
50°	19887.0	19848.3	19022.6	19220.3	20038.2	20239.8	22569.7	22457.2	20487.9	22833.3	24810.3
52.5°	21077.2	20763.2	20104.1	20511.2	21592.7	21856.4	24539.0	24209.5	21887.4	24655.3	26737.0
55°	21612.1	21538.5	21499.7	21852.5	23337.2	23527.2	26454.0	25698.1	23081.4	26198.2	28202.4
57.5°	23042.6	22906.9	23290.7	23531.1	25391.8	25682.6	28454.4	27252.6	24128.1	27423.2	28915.7
60°	24895.6	24822.0	25174.7	25608.9	27686.8	28128.7	30733.8	28578.4	24969.3	28039.6	28524.1
62.5°	27663.5	27655.8	27589.9	28520.3	30939.3	31346.3	33350.5	29869.3	25101.1	27578.2	26500.5
65°	31633.2	31493.6	30919.9	31935.6	34986.5	35463.3	36075.8	30590.4	24306.4	25209.6	22313.8
67.5°	35785.0	35777.3	35312.1	36630.1	40797.5	41289.8	39483.3	30431.4	22100.6	20422.0	15847.6
70°	39227.5	39060.8	39653.9	43166.1	48221.2	48791.1	42464.4	28559.0	17603.7	13486.7	9416.3
72.5°	40053.2	40060.9	41293.7	48205.7	55350.3	55439.5	43538.3	23147.3	11781.0	7439.2	4710.1
74°	37510.1	37576.0	39487.2	48457.7	56680.0	56276.8	40793.6	18193.0	7966.4	4857.4	3395.9
75°	34238.3	33823.5	36587.5	46779.1	55299.9	54865.7	37579.9	14599.3	6078.5	3880.5	2973.4
77.5°	18305.4	18727.9	22992.2	34908.9	44926.1	44426.0	25481.0	7001.2	3283.5	2702.0	2139.9
80°	6516.6	7187.2	10102.5	18266.6	28803.3	28958.3	12160.9	3209.8	2310.5	1992.6	1511.9
82.5°	2659.4	2733.0	4337.9	8106.0	14626.5	14766.0	4965.9	1907.3	1651.4	1372.3	903.3
85°	1038.9	1069.9	1918.9	3644.0	6241.4	6648.4	1717.3	1007.9	1015.7	787.0	461.3
87.5°	348.9	395.4	787.0	1213.4	2120.5	2077.9	500.1	298.5	364.4	341.1	143.4
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°	10684.0	10684.0	10684.0	10684.0	10684.0	10684.0	10684.0	10684.0	10684.0	10684.0	10684.0
2.5°	10718.8	10792.5	10842.9	10897.2	10947.6	10963.1	10951.4	10986.3	10990.2	10994.1	10998.0
5°	10780.9	10881.7	10978.6	11032.8	11056.1	11036.7	10970.8	10935.9	10904.9	10881.7	10889.4
7.5°	10866.2	11009.6	11098.7	11122.0	11060.0	10970.8	10808.0	10680.1	10598.7	10544.4	10540.5
10°	10998.0	11137.5	11211.2	11145.3	10974.7	10757.6	10501.8	10261.4	10079.2	10024.9	10021.1
12.5°	11164.7	11323.6	11319.7	11125.9	10827.4	10439.7	10024.9	9745.8	9497.7	9373.7	9424.1
15°	11381.7	11501.9	11389.5	11040.6	10567.7	10036.6	9524.8	9144.9	8865.8	8734.0	8741.8
17.5°	11633.7	11738.4	11439.9	10889.4	10203.3	9521.0	8927.8	8567.3	8346.4	8249.4	8241.7
20°	11947.7	11978.7	11439.9	10625.8	9734.2	8920.1	8354.1	8102.1	7978.1	7927.7	7943.2
22.5°	12285.0	12223.0	11377.9	10253.6	9117.8	8292.1	7912.2	7799.7	7737.7	7730.0	7737.7
25°	12664.9	12490.5	11249.9	9749.7	8474.3	7749.4	7528.4	7547.8	7559.4	7559.4	7586.5
27.5°	13130.1	12781.2	11036.7	9113.9	7722.2	7245.4	7183.4	7319.0	7381.1	7392.7	7412.1
30°	13742.6	13099.1	10684.0	8319.2	7082.6	6791.8	6900.4	7082.6	7152.4	7195.0	7187.2
32.5°	14471.4	13448.0	10207.1	7524.5	6567.0	6473.9	6605.8	6791.8	6869.4	6892.6	6861.6
35°	15328.1	13843.4	9579.1	6780.2	6117.3	6171.6	6326.6	6384.8	6454.6	6454.6	6470.1
37.5°	16250.8	14161.3	8811.5	6097.9	5768.4	5966.1	6078.5	6024.3	5993.2	5954.5	5973.9
40°	17188.9	14397.7	7815.3	5423.4	5419.5	5752.9	5783.9	5628.8	5504.8	5466.0	5446.6
42.5°	18006.9	14545.1	6915.9	4900.0	5090.0	5543.6	5566.8	5318.7	5121.0	5004.7	4965.9
45°	18972.2	14715.6	6035.9	4465.9	4783.7	5376.9	5435.0	5101.6	4810.9	4566.7	4504.6
47.5°	20294.1	15103.3	5342.0	4128.6	4562.8	5272.2	5353.6	4923.3	4539.5	4221.6	4171.2
50°	21786.6	15634.4	4803.1	3899.9	4392.2	5179.2	5279.9	4741.1	4287.5	3934.8	3896.0
52.5°	23155.0	15921.3	4337.9	3694.4	4225.5	5008.6	5183.0	4609.3	4039.4	3647.9	3613.0
55°	23903.2	15456.1	3880.5	3492.8	3996.8	4787.6	5047.4	4427.1	3799.1	3496.7	3446.3
57.5°	24004.0	14494.7	3465.7	3275.7	3756.4	4516.3	4795.4	4206.1	3644.0	3392.0	3349.4
60°	23224.8	13060.3	3143.9	3097.4	3512.2	4210.0	4512.4	4012.3	3485.1	3275.7	3233.1
62.5°	21286.5	11501.9	2919.1	2934.6	3264.1	3888.2	4303.0	3826.2	3333.9	3147.8	3109.0
65°	17952.6	9493.8	2702.0	2767.9	3043.1	3636.3	4113.1	3671.2	3182.7	3050.9	3016.0
67.5°	12471.1	6853.9	2523.7	2593.5	2833.8	3380.4	3892.1	3504.5	3012.1	2942.4	2888.1
70°	6904.3	4217.8	2314.3	2395.7	2616.7	3093.5	3644.0	3252.5	2764.0	2733.0	2655.5
72.5°	3628.5	2686.5	2077.9	2167.0	2322.1	2725.3	3264.1	2977.2	2519.8	2388.0	2287.2
74°	2833.8	2201.9	1918.9	2012.0	2116.6	2508.2	3039.3	2779.5	2345.4	2190.3	2112.8
75°	2469.4	1961.6	1783.2	1903.4	1996.5	2360.9	2864.8	2640.0	2248.4	2101.1	2031.3
77.5°	1744.5	1469.2	1457.6	1601.0	1651.4	2070.1	2581.8	2403.5	2004.2	1849.1	1783.2
80°	1225.0	1101.0	1155.2	1244.4	1314.2	1829.8	2395.7	2077.9	1643.7	1461.5	1438.2
82.5°	798.6	721.1	825.7	907.1	930.4	1349.1	1934.4	1577.8	1197.9	973.0	903.3
85°	368.3	360.5	472.9	461.3	457.4	659.0	1147.5	922.6	690.0	515.6	484.6
87.5°	93.0	89.2	116.3	96.9	116.3	100.8	104.7	27.1	3.9	0.0	0.0
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)