

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: P382681

Luminaire Tested: **GLEON-SA0C-735-U-T4W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P382681
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-18)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA0C-735-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 64762.1 lumens
Efficiency: N/A
Efficacy: 116.1 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

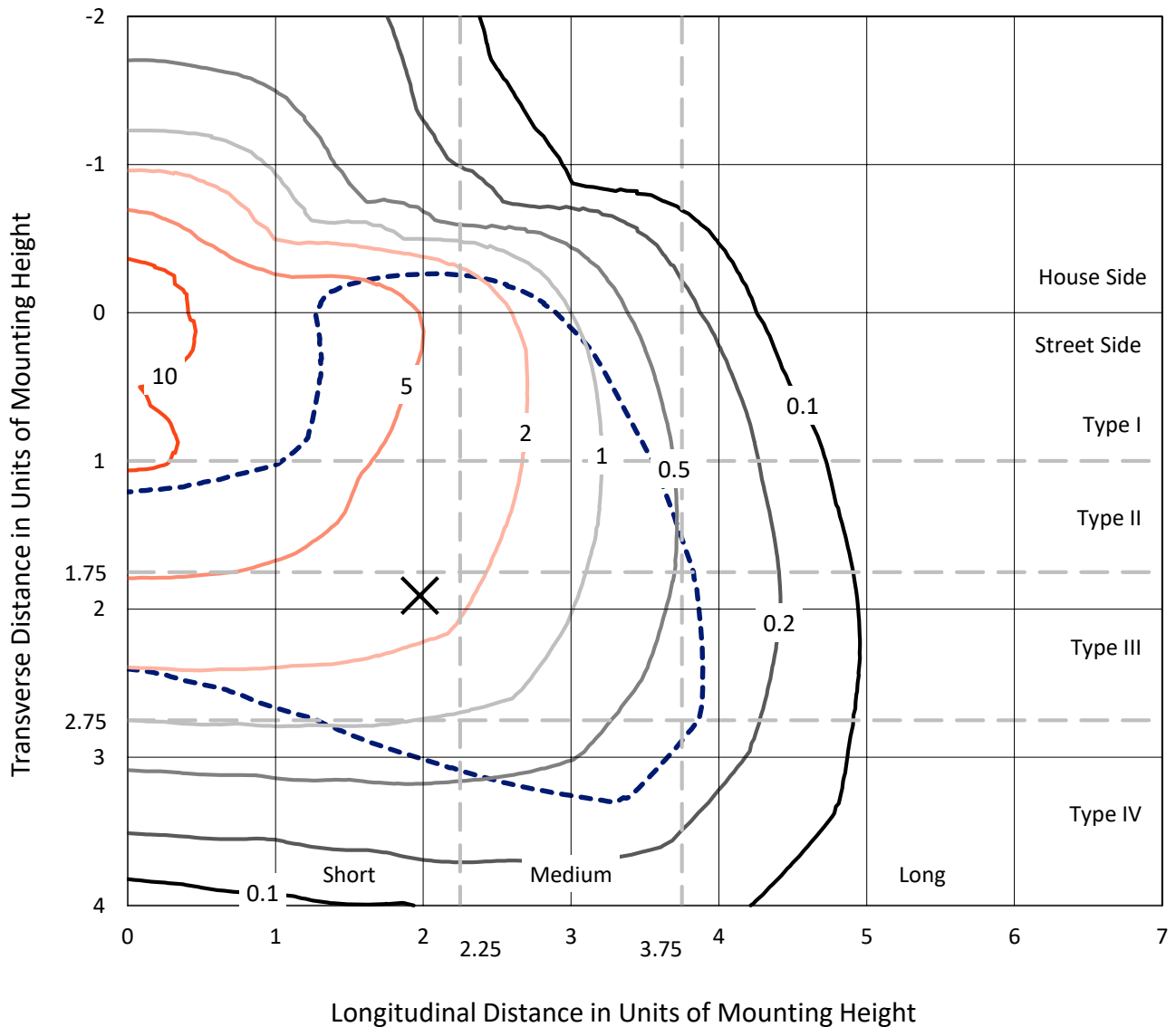
Input Watts (W): 558
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

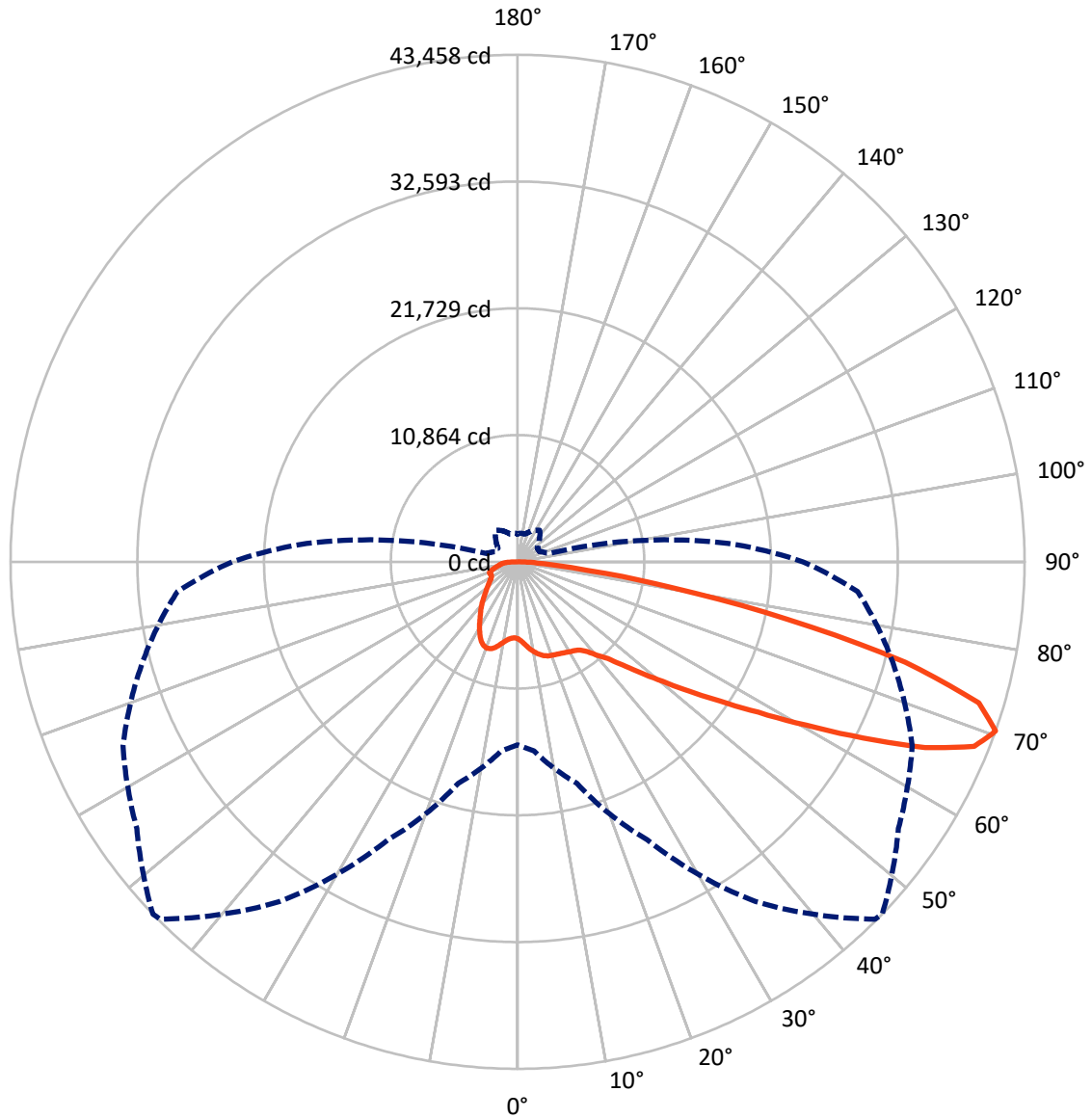
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.2 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14843.3	0.0	14843.3
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	49918.8	0.0	49918.8
	% Fixture	77.1	0.0	77.1
Total	Lumens	64762.1	0.0	64762.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	672.6	1.0
10°-20°	2241.0	3.5
20°-30°	3736.5	5.8
30°-40°	5302.4	8.2
40°-50°	7799.5	12.0
50°-60°	13208.4	20.4
60°-70°	18749.2	29.0
70°-80°	11390.3	17.6
80°-90°	1662.3	2.6
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°	64762.1	100.0
0°-180°	64762.1	100.0

Coefficient of Utilization



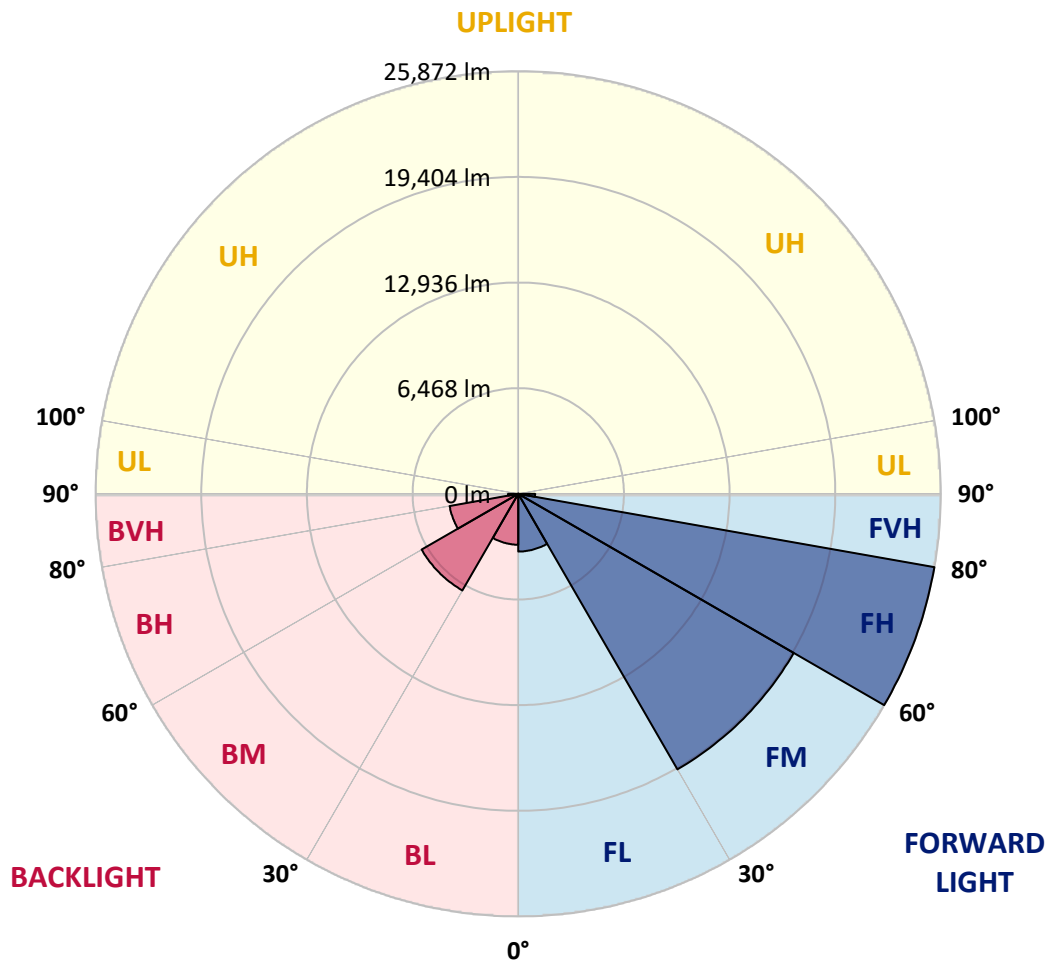
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3533.7	5.5			
FM (30°-60°)	19477.6	30.1			
FH (60°-80°)	25872.1	39.9			G5
FVH (80°-90°)	1035.5	1.6			G5
BL (0°-30°)	3116.4	4.8	B4/5000		
BM (30°-60°)	6832.8	10.6	B4/8500		
BH (60°-80°)	4267.3	6.6	B4/5000		G4/5000
BVH (80°-90°)	626.8	1.0			G4/750
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°	46°	55°	65°	75°	85°
0°	6598.0	6598.0	6598.0	6598.0	6598.0	6598.0	6598.0	6598.0	6598.0	6598.0	6598.0
2.5°	6928.2	6932.7	6941.5	6919.3	6857.3	6839.6	6832.9	6768.6	6726.5	6664.5	6611.3
5°	7482.3	7486.8	7473.4	7411.4	7274.0	7172.0	7163.1	7016.9	6883.9	6742.1	6635.7
7.5°	8060.8	8067.4	8025.3	7907.8	7715.0	7537.7	7526.6	7327.2	7125.5	6910.5	6750.9
10°	8572.8	8546.1	8477.5	8313.4	8085.2	7867.9	7859.1	7650.7	7418.0	7158.8	6946.0
12.5°	8914.1	8891.9	8803.2	8603.8	8353.3	8153.8	8136.1	7943.3	7717.2	7433.6	7178.7
15°	9102.4	9118.0	8998.3	8772.2	8528.4	8360.0	8344.4	8207.0	8005.3	7719.5	7426.9
17.5°	9126.8	9140.2	9024.8	8801.0	8601.5	8486.3	8479.7	8388.8	8242.5	7967.7	7661.8
20°	8985.0	8993.8	8898.5	8714.5	8583.8	8548.3	8546.1	8506.2	8397.6	8153.8	7856.9
22.5°	8778.8	8785.5	8716.8	8583.8	8539.5	8594.9	8610.4	8594.9	8517.3	8289.0	8009.8
25°	8727.9	8723.5	8652.5	8517.3	8555.0	8672.4	8692.5	8699.1	8645.9	8446.4	8204.8
27.5°	8973.9	8958.4	8823.2	8606.0	8630.3	8772.2	8798.8	8863.1	8829.9	8654.7	8426.5
30°	9685.3	9658.8	9381.7	8942.9	8823.2	8896.3	8929.5	9031.5	9038.2	8891.9	8721.2
32.5°	10886.5	10853.4	10356.9	9572.3	9149.0	9022.7	9053.7	9206.6	9288.6	9175.6	8991.6
35°	12404.8	12367.0	11715.5	10642.7	9694.2	9264.2	9286.4	9408.3	9572.3	9412.7	9168.9
37.5°	13987.2	13896.4	13269.2	11901.6	10560.8	9780.6	9780.6	9796.2	9873.8	9541.3	9377.2
40°	15560.8	15469.9	14902.5	13382.1	11682.3	10594.0	10543.1	10199.5	10137.5	9851.6	9796.2
42.5°	17023.6	16997.0	16662.3	15055.5	12998.7	11394.1	11323.1	10740.3	10753.6	10576.3	10578.5
45°	18579.4	18579.4	18306.9	16744.3	14532.4	12679.6	12608.7	11750.9	11883.9	11802.0	11999.2
47.5°	19849.4	19889.3	19851.6	18504.1	16316.5	14313.0	14184.5	13151.7	13524.0	13805.4	14379.5
50°	21145.9	21208.0	21214.6	20434.5	18473.1	16254.5	16108.2	15011.1	15842.3	16649.0	17777.1
52.5°	23027.6	23167.2	22610.9	22360.5	21114.9	18559.5	18415.4	17402.5	18790.0	19922.5	21866.2
55°	24771.8	24650.0	24253.2	24408.3	23942.9	21183.6	21075.1	20186.3	22074.6	23546.2	26070.6
57.5°	25716.0	25707.1	26106.1	26771.0	26992.6	24419.4	24328.6	23464.2	25778.1	26884.0	30017.9
60°	26824.2	26839.7	27828.1	29337.5	30250.6	28448.7	28408.8	27752.8	29375.1	30000.1	33114.1
62.5°	26979.3	27258.6	28960.7	31558.2	33300.2	33156.2	33244.9	31615.9	32593.3	32486.9	35425.7
65°	25195.2	25563.1	28643.8	32229.8	36332.2	38304.7	38386.7	35501.1	35130.9	34612.3	36252.4
67.5°	21538.2	22083.5	25430.1	30769.2	37331.8	42110.1	42225.4	38513.1	37236.5	35332.6	34262.1
70°	15673.8	16278.9	19647.7	26279.0	35549.8	43326.9	43457.6	39845.1	37316.2	33282.5	29248.8
72.5°	9468.2	9942.4	12719.4	19346.3	30004.6	41110.6	41343.3	38156.2	34069.3	28191.6	21598.0
75°	4157.8	4468.1	6150.3	11148.1	21480.6	34013.9	34304.2	32659.7	27681.9	20487.7	12766.0
77.5°	1770.9	1859.5	2522.2	4842.7	12143.2	23242.6	23641.5	23863.2	18781.1	11148.1	5394.5
80°	1103.7	1139.2	1427.3	2191.9	5682.6	13054.1	13484.2	14040.4	9326.3	4098.0	1883.9
82.5°	671.6	711.4	948.6	1325.4	2958.8	5917.6	6123.7	6516.0	3619.2	1770.9	975.1
85°	403.4	432.1	580.6	837.7	1684.4	2327.1	2325.0	2571.0	1704.4	1139.2	514.2
87.5°	192.8	215.0	310.3	434.4	848.8	873.2	817.8	926.4	1035.0	746.9	259.3
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°	6598.0	6598.0	6598.0	6598.0	6598.0	6598.0	6598.0	6598.0	6598.0	6598.0	6598.0
2.5°	6593.6	6584.7	6555.9	6533.7	6529.3	6516.0	6504.9	6511.5	6520.5	6522.6	6522.6
5°	6591.4	6566.9	6529.3	6513.8	6533.7	6560.3	6593.6	6637.9	6664.5	6684.4	6697.7
7.5°	6697.7	6651.2	6609.1	6600.2	6640.1	6711.1	6786.4	6879.5	6943.8	6988.1	6996.9
10°	6875.0	6817.4	6775.3	6784.2	6855.1	6957.1	7063.5	7183.1	7280.6	7340.5	7344.9
12.5°	7078.9	7023.5	6983.6	7021.4	7138.7	7262.9	7373.7	7477.9	7566.5	7626.4	7626.4
15°	7313.9	7274.0	7227.4	7313.9	7473.4	7584.3	7630.8	7681.7	7730.5	7774.9	7766.0
17.5°	7539.9	7502.2	7477.9	7579.8	7746.0	7797.1	7766.0	7728.3	7728.3	7752.7	7757.1
20°	7735.0	7701.8	7717.2	7817.0	7903.4	7850.2	7735.0	7615.3	7566.5	7579.8	7593.1
22.5°	7905.6	7890.1	7936.7	7983.2	7921.1	7735.0	7522.2	7360.4	7300.5	7296.2	7300.5
25°	8105.1	8102.9	8160.5	8076.2	7801.4	7458.0	7172.0	7014.6	6981.4	7008.0	7052.4
27.5°	8353.3	8377.7	8406.5	8098.4	7557.6	7039.1	6748.7	6640.1	6673.3	6737.6	6779.7
30°	8670.3	8736.7	8674.7	8043.1	7207.5	6560.3	6283.3	6252.3	6343.1	6434.0	6478.4
32.5°	8978.3	9082.5	8931.8	7899.0	6755.4	6052.8	5837.8	5829.0	5939.7	6028.4	6090.5
35°	9226.5	9432.7	9124.6	7613.1	6232.3	5585.1	5427.8	5367.9	5407.8	5512.0	5583.0
37.5°	9550.1	9893.7	9257.5	7176.5	5664.9	5199.5	5015.5	4878.1	4842.7	4884.8	4920.2
40°	10141.9	10596.3	9319.7	6566.9	5110.8	4813.9	4627.6	4426.0	4286.3	4184.4	4186.7
42.5°	11108.2	11511.6	9279.7	5826.7	4598.9	4437.1	4226.5	3993.8	3767.7	3537.3	3519.5
45°	12677.3	12872.4	9160.1	5042.1	4148.9	4042.5	3845.3	3612.6	3311.2	3049.7	3025.3
47.5°	15188.4	14756.3	8973.9	4357.3	3752.3	3707.9	3526.2	3258.0	2938.8	2728.3	2710.5
50°	18612.7	17475.7	8883.1	3812.1	3402.0	3415.3	3266.8	2983.2	2681.7	2526.6	2508.8
52.5°	22708.4	20642.8	9058.1	3391.0	3120.6	3167.2	3056.3	2790.4	2537.7	2415.8	2398.1
55°	26957.1	23923.0	9246.5	3085.1	2854.6	2945.5	2907.8	2688.4	2460.1	2347.1	2331.6
57.5°	30594.1	26372.0	8869.7	2836.9	2617.5	2759.3	2792.6	2624.2	2420.3	2318.2	2300.5
60°	32883.5	27358.2	7881.3	2604.1	2429.1	2610.8	2726.1	2606.4	2435.7	2426.9	2413.5
62.5°	33969.5	27271.9	6398.5	2420.3	2311.6	2546.6	2774.8	2706.1	2613.1	2692.8	2699.4
65°	33482.0	25968.7	4765.1	2298.3	2227.4	2571.0	2921.1	2894.5	2664.0	2743.8	2754.9
67.5°	30272.8	22859.2	3528.4	2191.9	2134.4	2639.6	3187.1	2956.5	2564.3	2621.9	2586.4
70°	24468.2	18122.9	2721.6	2072.2	2039.0	2630.8	3306.7	2918.9	2455.7	2469.0	2373.7
72.5°	16872.8	12358.2	2214.1	1961.5	1901.6	2398.1	3222.5	2825.8	2364.8	2262.8	2136.5
75°	9175.6	6633.5	1881.6	1846.2	1660.0	2105.5	3067.4	2759.3	2282.9	2147.6	2076.7
77.5°	3610.4	2752.6	1633.5	1688.8	1451.7	1859.5	2894.5	2633.0	2169.8	1992.5	1957.0
80°	1473.9	1405.1	1354.2	1460.6	1247.8	1626.8	2686.2	2484.5	2034.6	1848.4	1777.5
82.5°	835.6	873.2	1052.7	1152.5	1012.9	1498.2	2586.4	2364.8	1872.8	1655.6	1571.3
85°	427.8	512.0	733.6	826.7	744.7	1274.4	2382.5	2070.1	1502.7	1267.7	1274.4
87.5°	206.2	285.9	463.2	518.6	483.2	922.0	1779.7	1500.4	1170.2	926.4	897.6
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)