

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: P382671

Luminaire Tested: **GLEON-SA0C-735-U-T2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P382671
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-12)
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-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 64000.1 lumens
Efficiency: N/A
Efficacy: 114.7 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G5

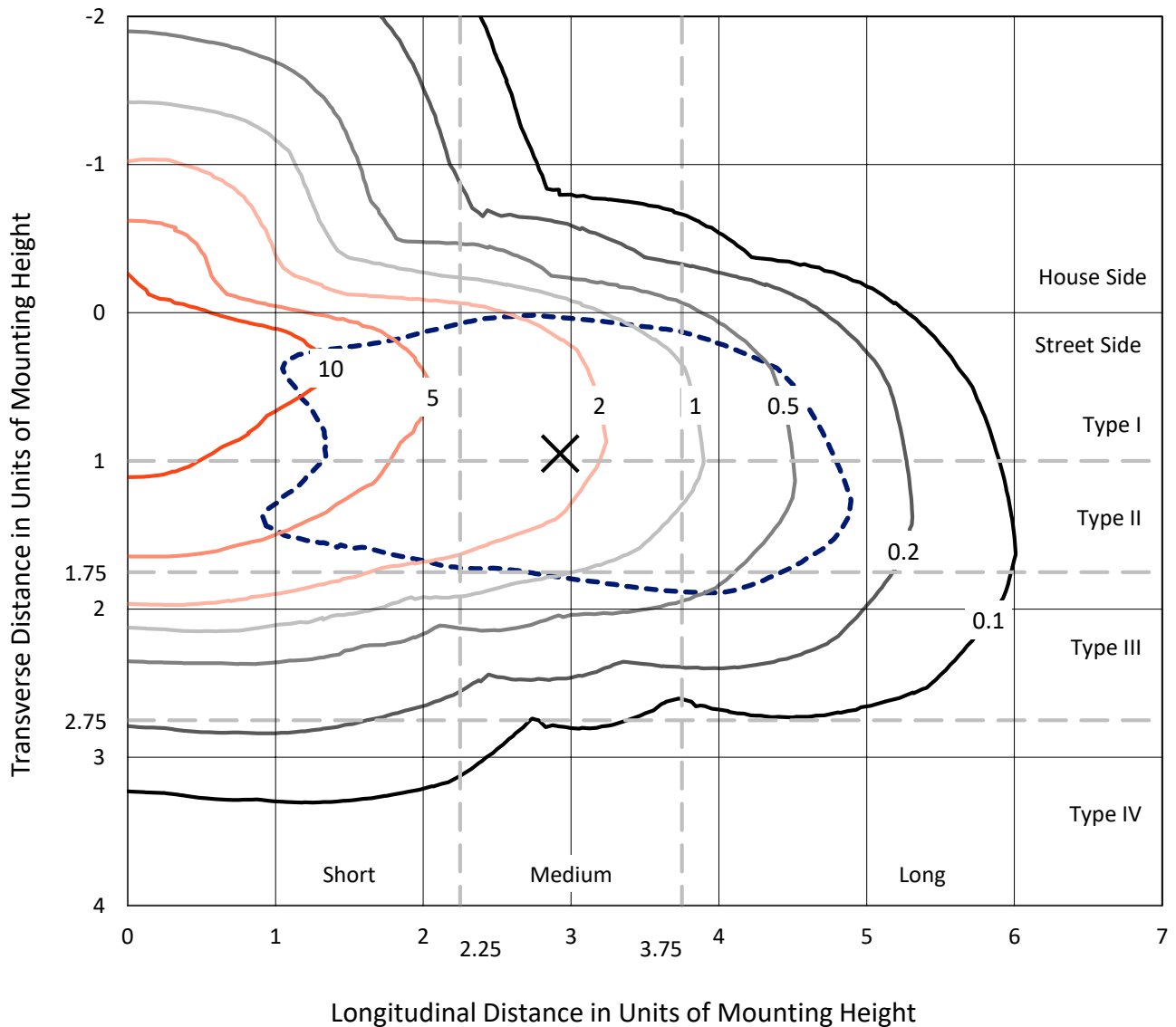
Input Watts (W): 558
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

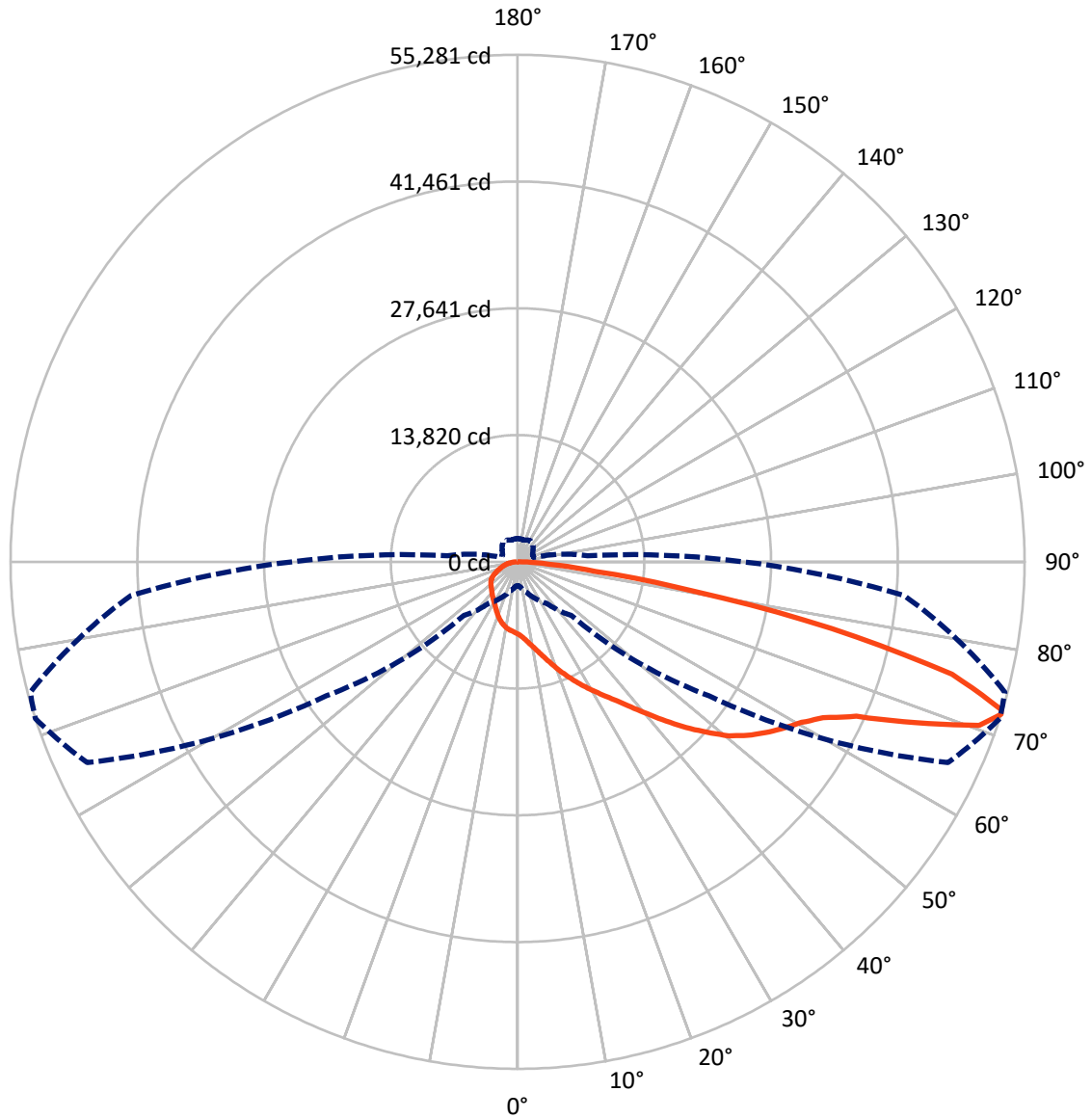
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.4 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral - - - Horizontal Cone Through 72-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11872.4	0.0	11872.4
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	52127.7	0.0	52127.7
	% Fixture	81.4	0.0	81.4
Total	Lumens	64000.1	0.0	64000.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	789.0	1.2
10°-20°	2549.6	4.0
20°-30°	4467.6	7.0
30°-40°	6624.1	10.4
40°-50°	9688.3	15.1
50°-60°	13331.0	20.8
60°-70°	14841.3	23.2
70°-80°	10056.5	15.7
80°-90°	1652.9	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°	64000.1	100.0
0°-180°	64000.1	100.0

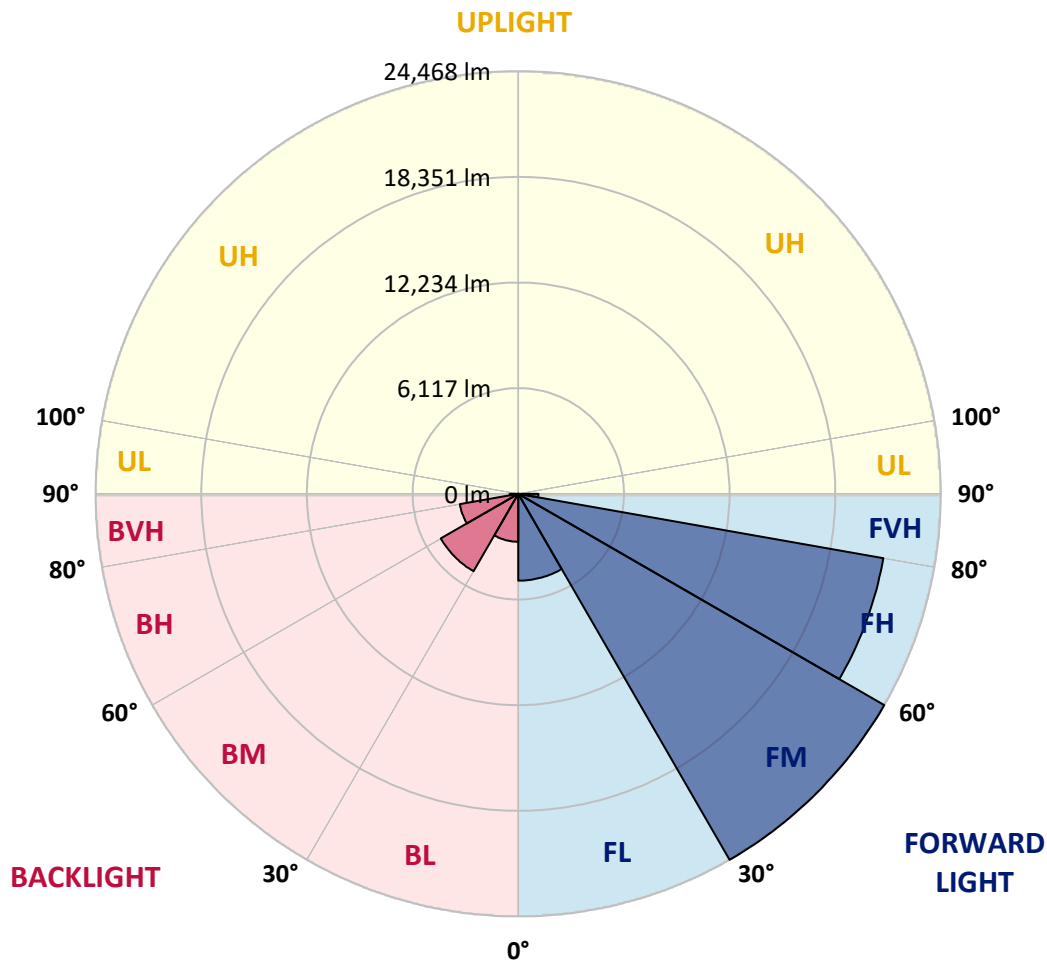


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5030.8	7.9			
FM (30°-60°)	24468.0	38.2			
FH (60°-80°)	21462.9	33.5			G5
FVH (80°-90°)	1165.9	1.8			G5
BL (0°-30°)	2775.3	4.3	B4/5000		
BM (30°-60°)	5175.3	8.1	B4/8500		
BH (60°-80°)	3434.8	5.4	B4/5000		G4/5000
BVH (80°-90°)	487.0	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 III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	7873.7	7873.7	7873.7	7873.7	7873.7	7873.7	7873.7	7873.7	7873.7	7873.7	7873.7
2.5°	8697.9	8684.6	8638.3	8638.3	8550.2	8475.3	8334.3	8239.4	8127.1	8087.4	7955.2
5°	9539.6	9544.1	9486.8	9447.1	9317.1	9158.4	8918.3	8700.1	8481.9	8393.7	8122.7
7.5°	10247.0	10238.2	10222.8	10189.7	10068.5	9905.4	9581.5	9257.6	8935.9	8803.6	8336.4
10°	10701.0	10720.8	10734.0	10749.5	10698.8	10582.0	10275.7	9881.2	9460.3	9279.6	8592.0
12.5°	10930.1	10965.4	11027.1	11132.9	11216.7	11203.4	10980.8	10562.2	10061.9	9834.9	8911.7
15°	11064.5	11110.8	11207.8	11397.3	11633.2	11767.6	11708.1	11329.0	10771.5	10491.6	9301.7
17.5°	11148.3	11185.7	11335.6	11589.1	11939.5	12296.4	12452.9	12135.6	11573.6	11254.1	9749.0
20°	11205.6	11234.3	11421.6	11719.1	12173.0	12741.6	13177.9	13098.6	12457.3	12043.0	10216.2
22.5°	11333.4	11357.7	11536.2	11835.9	12338.3	13072.1	13876.4	13995.5	13389.4	12920.1	10716.4
25°	11690.5	11690.5	11840.2	12049.7	12521.2	13358.6	14467.0	14993.7	14341.5	13794.9	11179.1
27.5°	12371.3	12364.7	12419.9	12492.5	12849.6	13649.5	14993.7	15875.2	15328.7	14731.5	11628.7
30°	13177.9	13222.0	13228.6	13193.3	13360.8	14013.1	15480.7	16805.1	16322.5	15679.1	12089.3
32.5°	14215.8	14244.5	14211.4	14094.6	14070.4	14528.8	15958.9	17779.1	17398.0	16668.5	12510.2
35°	15533.6	15478.5	15374.9	15137.0	14910.0	15218.5	16505.4	18753.2	18605.5	17865.1	13089.7
37.5°	16946.2	16948.4	16820.6	16280.7	15967.8	16099.9	17259.1	19857.2	20066.6	19288.6	13832.4
40°	18078.8	18138.3	18217.7	17508.1	17102.7	17285.5	18217.7	21137.6	21794.2	20976.7	14799.8
42.5°	18870.0	18938.3	19163.1	18717.9	18297.0	18636.4	19345.9	22503.8	23733.4	22924.7	15932.4
45°	19707.4	19744.8	19903.4	19711.7	19442.9	20207.6	20617.5	23918.5	25785.1	25000.5	17199.5
47.5°	20588.8	20628.5	20791.6	20663.8	20522.7	21675.2	21944.1	25251.7	27750.7	27281.3	18552.6
50°	21677.4	21703.8	21858.1	21626.7	21670.8	22781.5	23129.7	26474.8	29811.1	29330.7	19910.1
52.5°	23162.7	23169.3	23383.1	23173.7	22966.6	23592.4	24149.9	27627.3	31426.4	31199.5	21267.5
55°	24326.2	24396.8	25097.5	25053.4	24934.5	24328.4	25002.7	28724.7	32867.6	32975.6	22708.7
57.5°	23583.6	23859.1	25278.2	26278.7	27252.7	26159.6	26155.2	29961.0	34207.5	34718.7	24293.2
60°	20654.9	21029.5	23120.8	25339.9	28387.6	29346.2	28548.4	31470.5	35560.5	36446.3	26278.7
62.5°	14751.3	15368.3	18202.3	21745.8	26831.8	31457.2	33418.5	33865.9	37400.5	38447.3	28859.2
65°	7457.2	7924.4	10299.9	14568.4	21437.2	30077.8	38711.8	39110.6	40598.1	41528.0	32832.4
67.5°	4530.8	4707.0	5866.1	8102.9	13142.6	23429.4	40439.4	47852.5	46786.0	47279.6	38498.0
70°	3338.6	3468.5	4191.4	5381.4	7558.6	13748.6	35137.4	54091.1	53390.3	53335.2	42684.9
72°	2600.3	2695.1	3334.1	4347.8	5526.8	8248.3	25467.8	51788.3	55281.0	55003.4	42301.5
72.5°	2465.9	2549.6	3131.4	4092.2	5222.7	7477.1	22898.3	50234.6	55144.5	55018.8	41805.7
75°	1941.4	2001.0	2318.2	3164.5	4087.8	4242.1	12547.7	38929.9	48919.1	50953.0	37601.1
77.5°	1606.5	1615.3	1782.8	2302.8	3186.5	2999.2	6163.7	27010.3	35029.5	37266.1	26635.6
80°	1309.0	1320.0	1399.4	1615.3	2410.8	2219.1	2926.5	15531.4	19612.6	19636.8	12666.6
82.5°	1042.3	1044.5	1132.7	1181.2	1732.1	1586.6	1677.0	7291.9	8570.1	8243.9	4552.8
85°	733.8	718.4	1106.2	969.6	1132.7	1018.1	925.5	2886.8	3543.5	3389.2	1425.7
87.5°	244.6	253.4	491.4	628.0	661.1	577.4	412.1	1106.2	1337.6	1326.6	451.7
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°	7873.7	7873.7	7873.7	7873.7	7873.7	7873.7	7873.7	7873.7	7873.7	7873.7	7873.7
2.5°	7913.3	7842.8	7739.3	7624.6	7534.4	7441.8	7373.5	7338.2	7298.5	7265.5	7305.1
5°	7997.1	7864.9	7644.5	7428.5	7269.9	7128.9	7027.5	6974.6	6926.1	6893.1	6897.5
7.5°	8133.7	7919.9	7549.7	7234.6	7014.3	6862.2	6758.7	6723.4	6692.5	6683.7	6694.8
10°	8279.1	7964.1	7424.2	7005.4	6754.2	6628.6	6582.3	6606.5	6628.6	6648.5	6670.4
12.5°	8444.4	8003.7	7241.2	6736.6	6522.9	6474.3	6520.6	6626.4	6703.5	6749.8	6778.5
15°	8660.4	8039.0	7029.6	6467.7	6324.5	6379.6	6536.0	6719.0	6853.4	6939.4	6952.5
17.5°	8858.7	8036.7	6758.7	6196.7	6163.7	6324.5	6560.3	6818.1	6998.8	7120.0	7144.3
20°	9063.7	7977.2	6443.5	5932.3	6000.6	6265.0	6571.3	6882.0	7100.2	7241.2	7274.3
22.5°	9255.4	7873.7	6097.5	5692.0	5863.9	6185.7	6529.5	6844.5	7062.7	7177.3	7212.6
25°	9385.4	7693.0	5747.2	5489.3	5742.7	6088.7	6392.8	6646.2	6809.3	6866.6	6875.4
27.5°	9451.5	7457.2	5416.6	5313.0	5617.1	5930.0	6139.4	6265.0	6311.3	6306.9	6298.1
30°	9460.3	7146.5	5132.4	5169.8	5471.7	5696.5	5795.6	5771.4	5711.9	5610.5	5619.4
32.5°	9431.6	6796.1	4894.4	5033.2	5286.6	5412.2	5416.6	5299.8	5141.1	4980.2	4936.2
35°	9440.5	6452.4	4684.9	4878.9	5061.8	5116.9	5066.2	4894.4	4678.4	4471.2	4427.2
37.5°	9537.5	6152.6	4504.3	4700.4	4812.8	4826.0	4753.3	4572.6	4414.0	4211.2	4193.5
40°	9768.9	5938.9	4332.4	4499.8	4563.7	4570.4	4466.9	4339.1	4352.2	4244.2	4242.1
42.5°	10185.4	5846.3	4180.3	4290.5	4330.2	4343.4	4264.1	4182.6	4297.1	4226.6	4202.4
45°	10723.0	5868.4	4052.5	4085.6	4158.3	4220.0	4171.6	4072.4	4116.4	3810.1	3708.8
47.5°	11344.5	6009.4	3951.2	3909.3	4034.9	4151.7	4076.7	3926.9	3770.4	3466.4	3409.1
50°	12071.6	6227.6	3858.7	3735.2	3900.5	4059.1	3984.2	3770.4	3534.7	3387.0	3367.2
52.5°	12829.7	6494.2	3766.1	3543.5	3730.8	3988.6	3951.2	3735.2	3444.3	3298.9	3272.4
55°	13689.2	6763.0	3649.2	3320.9	3547.9	3955.5	3935.7	3607.4	3376.0	3294.5	3274.7
57.5°	14757.9	7069.3	3495.0	3089.6	3376.0	3836.6	3774.9	3530.3	3305.5	3243.8	3237.2
60°	16150.6	7521.1	3272.4	2842.7	3166.7	3653.7	3640.5	3417.8	3193.1	3149.0	3140.2
62.5°	18239.7	8268.1	2966.1	2595.9	2933.1	3343.0	3464.1	3265.8	3074.1	3071.9	3076.3
65°	21479.1	9392.0	2633.4	2379.9	2697.3	3080.7	3259.2	3109.4	2952.9	2997.0	3003.6
67.5°	25234.1	10324.2	2307.3	2168.4	2457.0	2831.7	3074.1	2952.9	2792.0	2906.6	2908.9
70°	26483.6	9491.2	2020.7	1959.0	2208.0	2591.5	2873.5	2781.0	2617.9	2732.5	2721.5
72°	24645.8	7662.2	1835.6	1800.4	2020.7	2393.1	2695.1	2620.2	2459.3	2536.4	2507.7
72.5°	24066.2	7305.1	1789.4	1760.7	1970.0	2342.5	2648.8	2580.5	2419.6	2485.7	2459.3
75°	21468.1	6344.3	1538.2	1544.8	1718.9	2095.7	2388.8	2366.7	2201.4	2208.0	2199.3
77.5°	15571.1	4652.0	1295.8	1339.8	1463.3	1842.2	2126.5	2113.3	1932.6	1899.5	1892.9
80°	7225.8	2373.3	1055.5	1075.4	1203.2	1540.3	1813.6	1796.0	1650.5	1608.7	1584.5
82.5°	2474.7	1128.3	793.3	806.5	932.1	1240.6	1573.4	1562.4	1441.2	1359.7	1309.0
85°	883.7	561.9	555.3	542.1	665.5	976.3	1370.7	1311.2	1132.7	965.2	960.8
87.5°	286.5	240.2	286.5	284.3	387.8	661.1	996.0	848.5	822.0	683.1	669.9
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)