

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: P382679

Luminaire Tested: **GLEON-SA0C-735-U-T4FT**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P382679
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-16)
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-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 3500K, 1050mA 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: 65608.9 lumens
Efficiency: N/A
Efficacy: 117.6 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

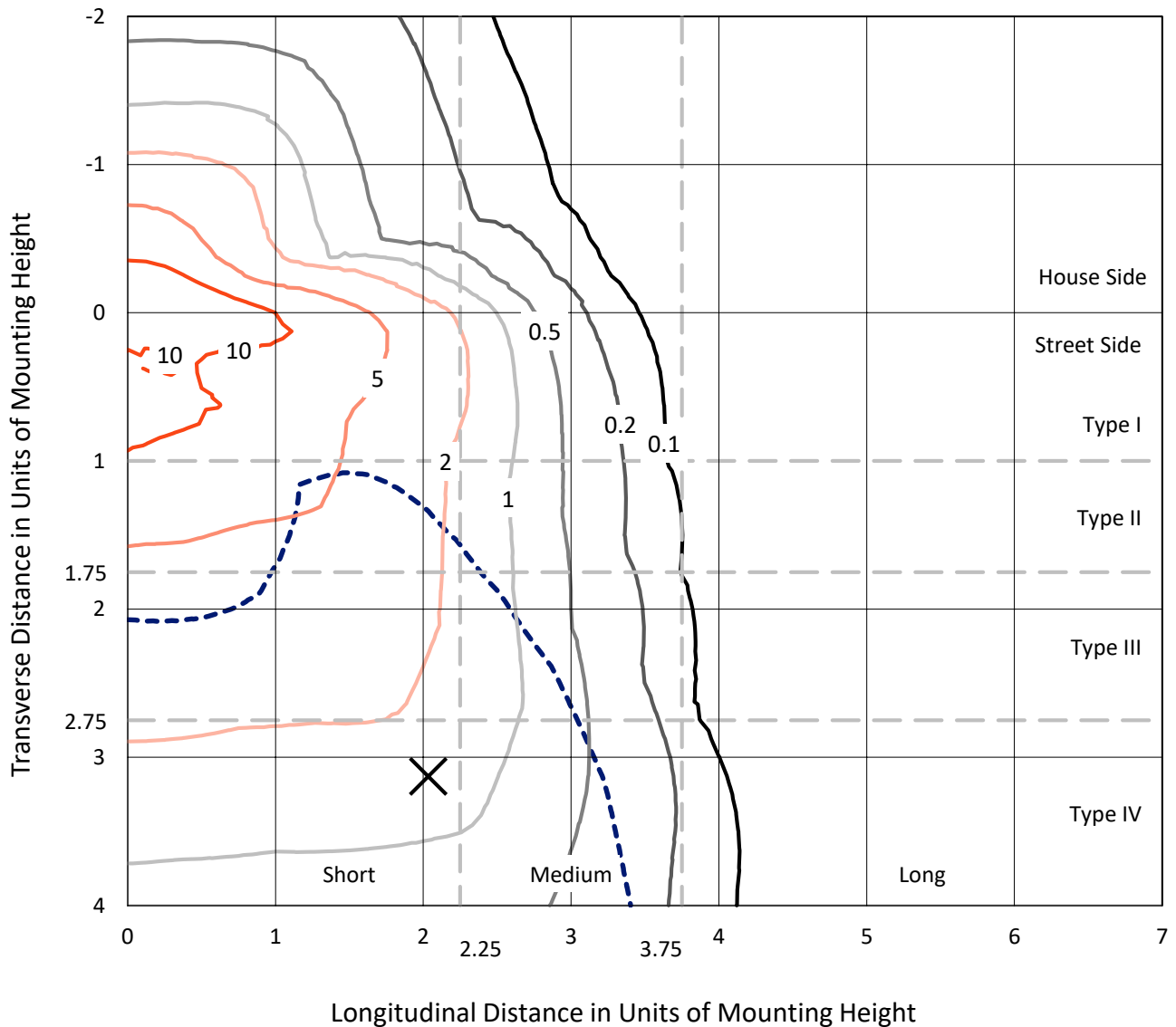
Input Watts (W): 558
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

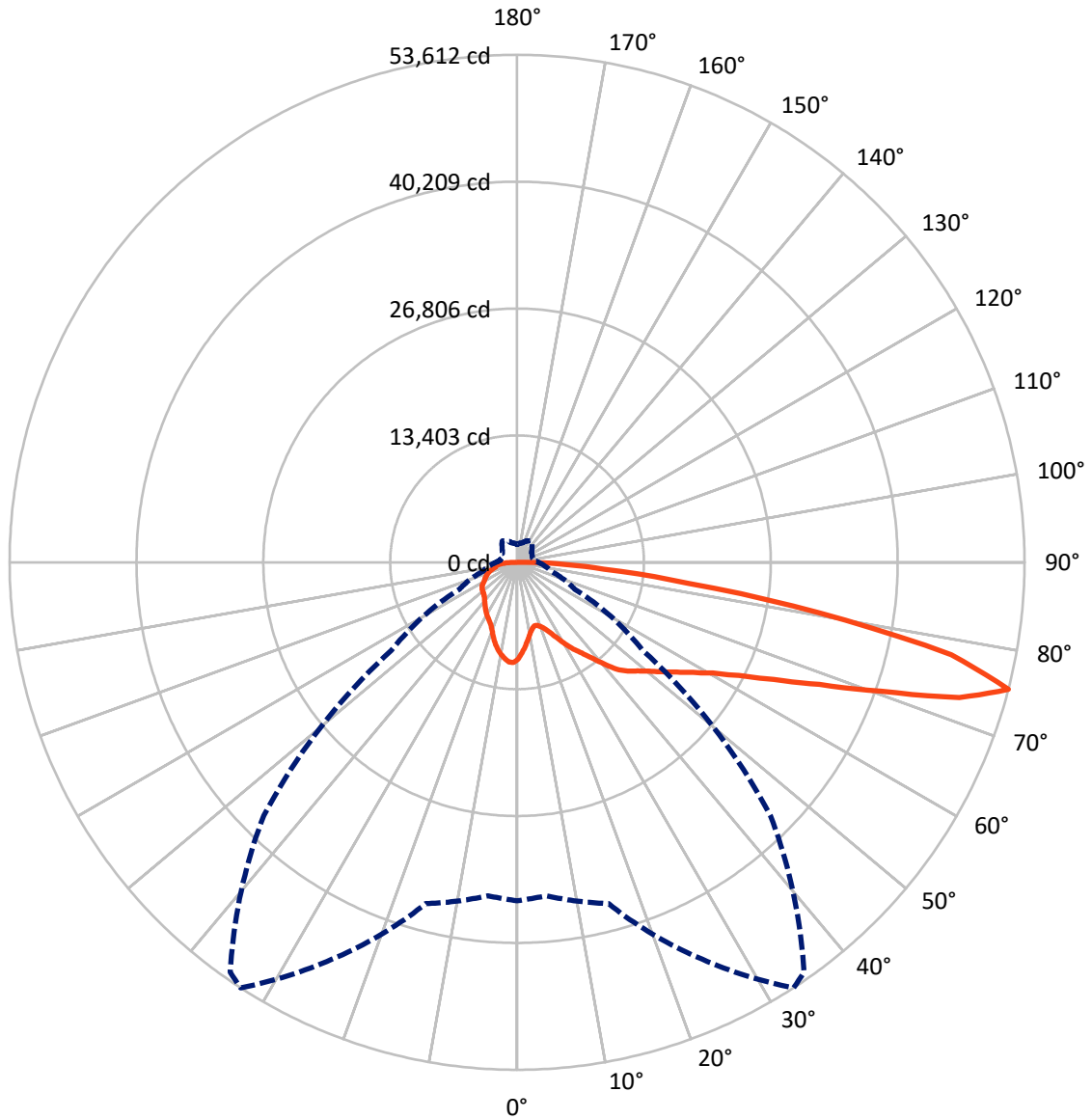
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.4 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 33-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14087.9	0.0	14087.9
	% Fixture	21.5	0.0	21.5
Street Side	Lumens	51521.0	0.0	51521.0
	% Fixture	78.5	0.0	78.5
Total	Lumens	65608.9	0.0	65608.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	927.4	1.4
10°-20°	2511.9	3.8
20°-30°	4102.3	6.3
30°-40°	6109.3	9.3
40°-50°	8762.4	13.4
50°-60°	12029.4	18.3
60°-70°	15060.2	23.0
70°-80°	13624.3	20.8
80°-90°	2481.7	3.8
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°	65608.9	100.0
0°-180°	65608.9	100.0

Coefficient of Utilization

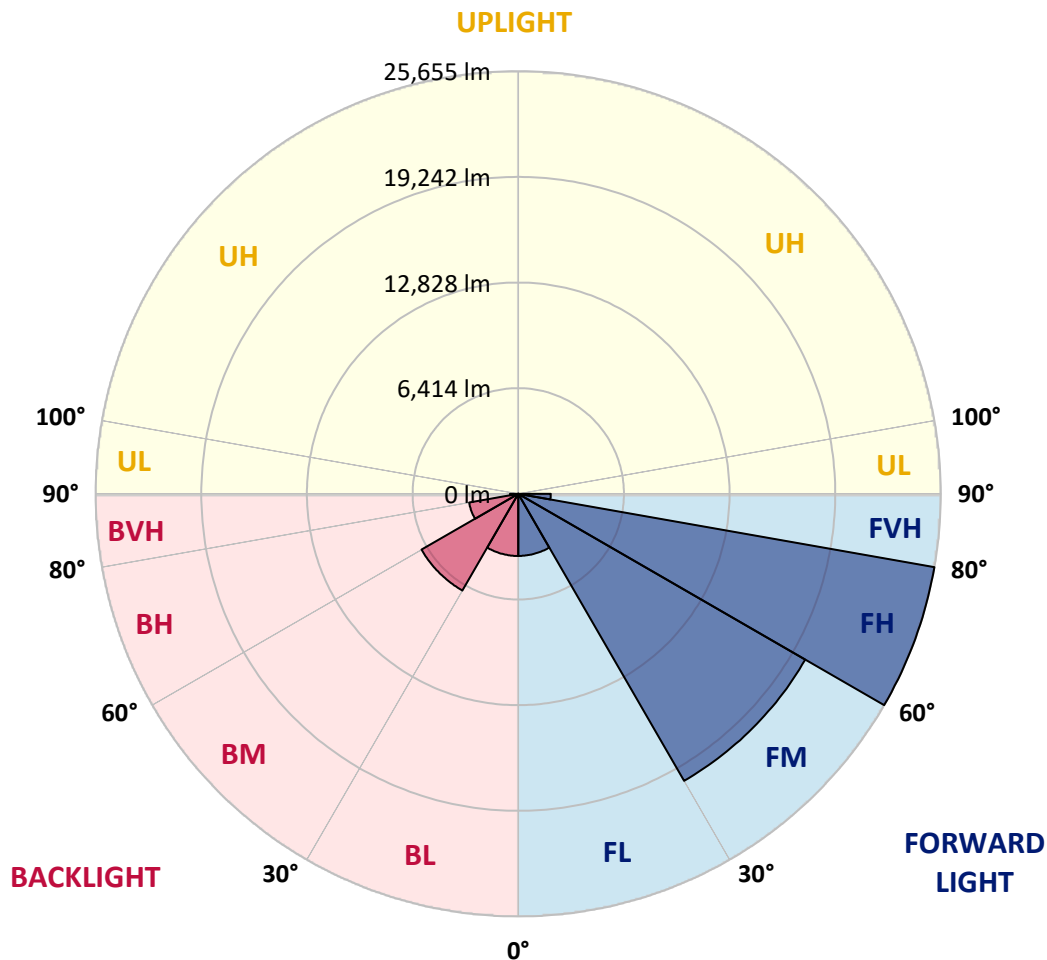


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3768.2	5.7			
FM (30°-60°)	20120.9	30.7			
FH (60°-80°)	25655.4	39.1			G5
FVH (80°-90°)	1976.5	3.0			G5
BL (0°-30°)	3773.4	5.8	B4/5000		
BM (30°-60°)	6780.1	10.3	B4/8500		
BH (60°-80°)	3029.2	4.6	B4/5000		G4/5000
BVH (80°-90°)	505.2	0.8			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°	33°	35°	45°	55°	65°	75°	85°
0°	10255.0	10255.0	10255.0	10255.0	10255.0	10255.0	10255.0	10255.0	10255.0	10255.0	10255.0
2.5°	9523.0	9486.8	9554.8	9563.8	9622.7	9645.4	9727.0	9853.9	9958.2	10078.2	10187.0
5°	8659.6	8634.6	8729.8	8797.8	8927.0	8981.3	9174.0	9443.7	9683.9	9955.9	10202.9
7.5°	7839.2	7825.6	7932.0	8086.2	8235.7	8310.5	8643.7	9035.7	9436.9	9876.5	10255.0
10°	7148.0	7143.4	7245.4	7397.2	7617.1	7700.9	8131.5	8648.2	9210.3	9815.3	10343.4
12.5°	6760.4	6776.3	6823.9	6950.7	7154.8	7238.6	7716.8	8324.1	9019.9	9794.9	10472.6
15°	6855.5	6880.5	6798.9	6794.4	6939.5	7005.1	7453.9	8093.0	8883.9	9828.9	10660.7
17.5°	7261.2	7265.8	7050.5	6914.5	7002.9	7036.9	7372.3	7961.6	8804.6	9906.0	10896.4
20°	7832.4	7821.0	7440.3	7213.6	7261.2	7270.4	7487.9	7963.8	8797.8	10039.8	11202.3
22.5°	8589.3	8505.5	7993.2	7685.1	7673.7	7660.1	7784.8	8131.5	8897.5	10257.3	11567.2
25°	9577.4	9498.1	8793.3	8371.7	8281.1	8247.1	8265.2	8489.6	9094.7	10490.7	11975.1
27.5°	10676.6	10538.3	9858.5	9262.4	9074.3	9026.7	8917.9	8994.9	9310.0	10715.1	12460.2
30°	11596.6	11521.9	10928.2	10221.0	9999.0	9930.9	9645.4	9561.6	9620.5	11021.0	13072.0
32.5°	12111.1	12061.3	11701.0	11129.9	10923.6	10828.4	10425.0	10257.3	10119.0	11503.8	13901.5
35°	12734.3	12702.7	12485.1	12070.3	11764.4	11664.7	11351.9	11177.5	10821.6	12167.8	14973.5
37.5°	13527.6	13493.6	13498.1	13162.7	12797.9	12704.9	12498.7	12315.2	11732.7	13040.4	16138.4
40°	14425.0	14359.3	14334.4	14318.5	14087.3	14035.3	13926.5	13677.2	12874.9	14082.9	17287.4
42.5°	15775.8	15542.3	15043.7	15231.8	15460.7	15433.5	15521.9	15163.8	14144.1	15315.7	18409.2
45°	17078.9	16695.8	15834.7	15875.4	16376.3	16528.2	17189.9	16936.1	15519.7	16666.4	19569.6
47.5°	17672.7	17382.6	16650.6	16652.8	17149.1	17464.2	18914.6	18733.3	16965.5	18200.7	20986.0
50°	18336.7	18046.6	17389.4	17636.4	18069.2	18404.7	20580.3	20487.4	18341.2	19880.1	22683.5
52.5°	19061.9	18570.1	18153.2	18595.1	19202.5	19592.2	22248.3	21994.5	19603.6	21570.7	24634.8
55°	19071.0	18937.2	19254.5	19578.6	20487.4	20965.6	23995.6	23324.8	20632.5	23231.9	26223.4
57.5°	20156.5	19938.9	20612.1	20761.7	21949.2	22488.6	25733.9	24482.9	21679.5	24505.6	27080.1
60°	21593.4	21407.5	21958.3	22352.6	23757.7	24478.4	27590.0	25672.7	22502.2	25466.5	27039.3
62.5°	24075.0	23864.2	23857.4	24410.4	26302.7	27141.3	29672.8	26839.8	22828.5	25656.9	25885.8
65°	27707.9	27372.4	26740.2	27003.0	29817.8	30654.1	32000.2	27685.2	22397.9	24637.0	22914.7
67.5°	31243.3	31232.0	30454.6	30994.0	34459.2	35130.1	34651.8	27769.1	21054.0	21085.7	17643.2
70°	34767.4	34812.8	34681.3	36557.8	40730.1	41428.1	37475.7	26642.7	18033.0	15227.4	10570.1
72.5°	37559.5	37548.2	38209.9	43048.5	48868.3	48712.0	39855.2	23229.6	12947.4	8219.9	5051.6
75°	35751.0	35356.6	37328.3	46262.1	53611.8	52848.0	37831.5	16204.1	6719.6	3741.7	2719.6
77.5°	23318.0	23692.0	26586.1	38216.7	46894.4	45965.3	27755.5	7560.4	3166.1	2454.4	1971.7
80°	8444.3	8838.6	12448.8	21647.8	32308.5	32156.7	13668.1	3107.1	2141.6	1853.9	1436.8
82.5°	2905.4	3050.4	4911.1	9613.7	18241.5	18921.4	5142.2	1765.5	1557.0	1314.4	983.6
85°	1139.9	1305.4	2245.9	4625.5	9201.2	9269.2	2082.8	1056.1	1083.3	861.2	539.4
87.5°	432.9	525.8	1074.3	2148.4	4201.7	3859.5	745.6	503.1	616.4	512.2	256.1
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°	10255.0	10255.0	10255.0	10255.0	10255.0	10255.0	10255.0	10255.0	10255.0	10255.0	10255.0
2.5°	10270.9	10318.5	10418.2	10486.2	10558.7	10579.1	10588.2	10606.3	10624.5	10617.7	10619.9
5°	10334.4	10427.3	10588.2	10656.2	10687.9	10651.7	10581.4	10524.7	10483.9	10461.3	10454.5
7.5°	10438.6	10570.1	10742.3	10731.0	10658.4	10497.5	10316.2	10180.2	10067.0	10026.2	10003.5
10°	10576.9	10731.0	10851.0	10721.9	10511.1	10232.4	9960.4	9749.7	9579.7	9514.0	9502.6
12.5°	10753.6	10910.0	10932.6	10658.4	10309.4	9928.7	9559.3	9280.5	9026.7	8945.1	8927.0
15°	10982.5	11129.9	10989.3	10547.4	10060.2	9548.0	9069.7	8691.2	8423.9	8324.1	8287.9
17.5°	11222.7	11363.3	11000.6	10363.8	9733.8	9096.9	8496.4	8108.8	7802.9	7687.3	7673.7
20°	11510.6	11574.0	10953.0	10101.0	9285.0	8512.2	7880.0	7515.1	7351.9	7270.4	7261.2
22.5°	11866.4	11798.4	10844.2	9745.1	8716.2	7836.9	7322.4	7152.4	7111.7	7093.5	7100.3
25°	12242.6	12034.1	10683.4	9280.5	7997.8	7161.6	6914.5	6962.1	7016.5	7009.7	7009.7
27.5°	12657.3	12274.4	10436.3	8664.0	7202.4	6608.6	6638.0	6812.5	6894.1	6891.9	6889.5
30°	13189.9	12546.3	10121.4	7923.0	6459.0	6218.7	6397.8	6610.8	6721.9	6717.3	6719.6
32.5°	13844.8	12845.4	9693.0	7095.8	5921.8	5930.9	6137.1	6347.9	6477.1	6465.8	6468.0
35°	14610.9	13180.8	9112.9	6279.9	5566.1	5702.0	5865.2	6012.5	6134.9	6119.1	6103.1
37.5°	15444.9	13509.5	8342.3	5550.2	5276.0	5489.0	5625.0	5649.9	5706.6	5665.8	5636.3
40°	16238.1	13761.0	7349.6	4951.9	4983.6	5307.7	5396.1	5296.3	5194.4	5180.8	5140.0
42.5°	16929.3	13844.8	6345.7	4473.7	4675.4	5117.4	5171.7	4963.2	4779.7	4693.5	4657.3
45°	17659.1	13874.4	5409.7	4072.5	4378.5	4947.4	5006.2	4727.5	4469.2	4283.3	4222.1
47.5°	18613.2	14087.3	4682.1	3775.7	4151.9	4834.0	4917.9	4539.4	4204.0	3938.9	3882.2
50°	19861.9	14508.9	4090.7	3549.0	4004.5	4759.3	4854.4	4355.8	3986.5	3666.9	3610.2
52.5°	21248.9	14896.5	3612.4	3365.5	3861.8	4627.8	4772.9	4224.4	3782.5	3415.3	3354.1
55°	22218.9	14599.6	3227.3	3175.1	3676.0	4439.7	4659.5	4113.3	3490.1	3170.5	3116.2
57.5°	22404.7	13584.2	2934.8	2978.0	3451.6	4204.0	4485.0	3866.3	3331.5	3064.0	3007.4
60°	21897.1	12170.1	2717.3	2796.6	3211.3	3907.1	4158.7	3691.8	3179.7	2950.8	2903.2
62.5°	20621.1	10721.9	2556.4	2633.5	2987.0	3605.6	3954.7	3508.2	3025.5	2821.6	2774.0
65°	18044.4	9001.7	2402.3	2488.4	2778.5	3345.1	3771.1	3338.3	2873.6	2717.3	2672.0
67.5°	13620.5	6742.3	2257.2	2334.3	2592.7	3118.4	3571.7	3170.5	2726.4	2626.7	2572.3
70°	8020.4	4222.1	2091.8	2173.4	2397.7	2882.8	3358.7	2987.0	2542.8	2497.5	2427.2
72.5°	3732.6	2540.5	1903.7	1983.0	2153.0	2567.7	3084.4	2746.8	2325.2	2225.5	2130.4
75°	2227.8	1858.3	1681.6	1751.9	1871.9	2232.3	2740.0	2502.0	2119.0	1987.5	1887.9
77.5°	1665.7	1421.0	1436.8	1511.6	1609.1	1953.5	2427.2	2309.4	1960.3	1858.3	1790.3
80°	1198.9	1078.7	1171.7	1253.3	1355.2	1776.7	2325.2	2134.8	1772.3	1636.3	1572.8
82.5°	800.0	775.0	881.6	965.5	1065.1	1554.7	2184.8	1869.7	1513.9	1341.6	1201.1
85°	441.9	466.9	593.8	630.0	716.2	1094.7	1790.3	1502.6	1139.9	917.9	877.1
87.5°	183.6	215.3	319.5	308.2	380.7	652.7	1178.5	906.5	725.2	541.6	421.5
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)