

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: P383483

Luminaire Tested: **GLEON-SA7D-735-U-T2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383483
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-SA7D-735-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 50170.4 lumens
Efficiency: N/A
Efficacy: 112.0 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G5

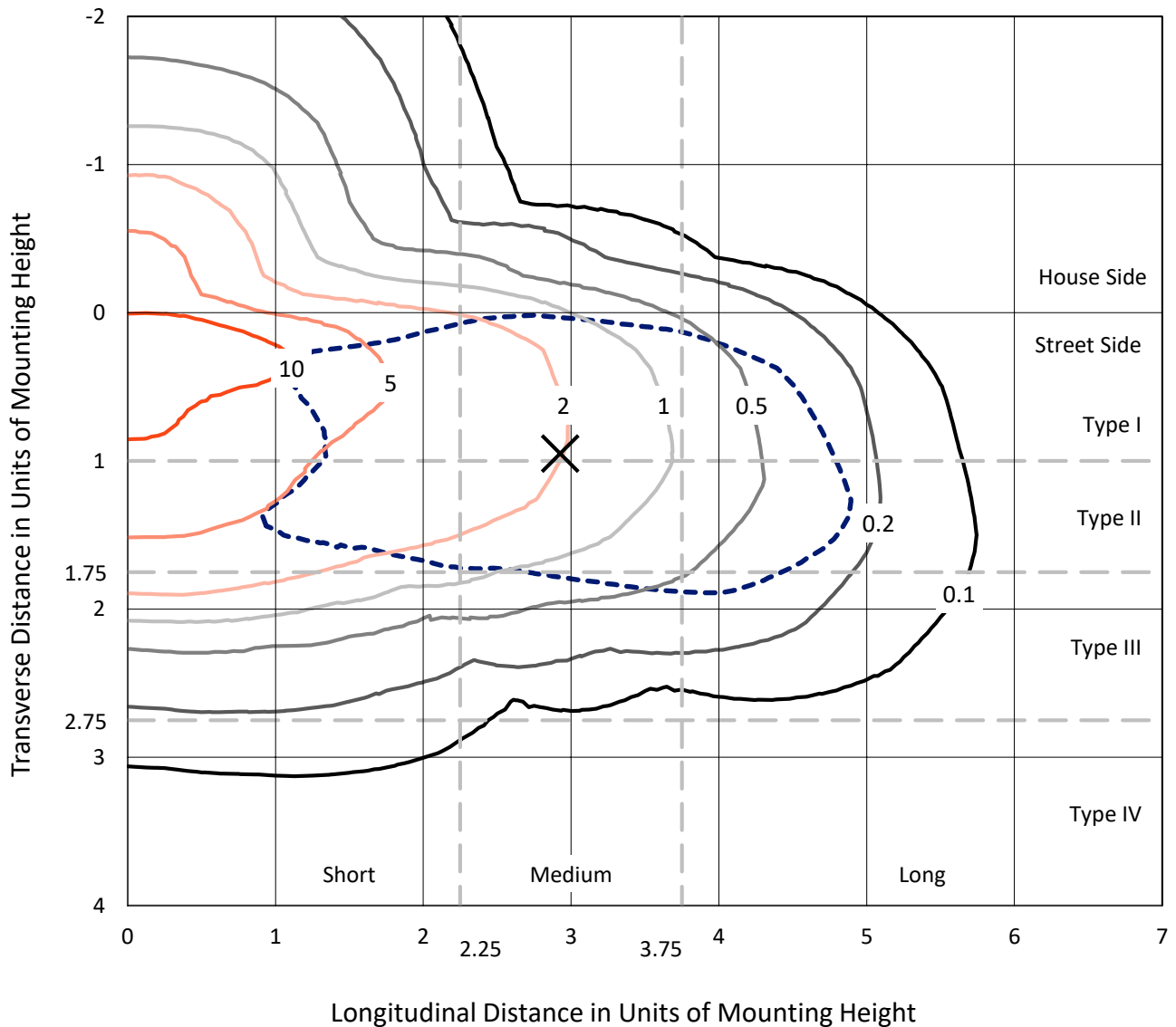
Input Watts (W): 448
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

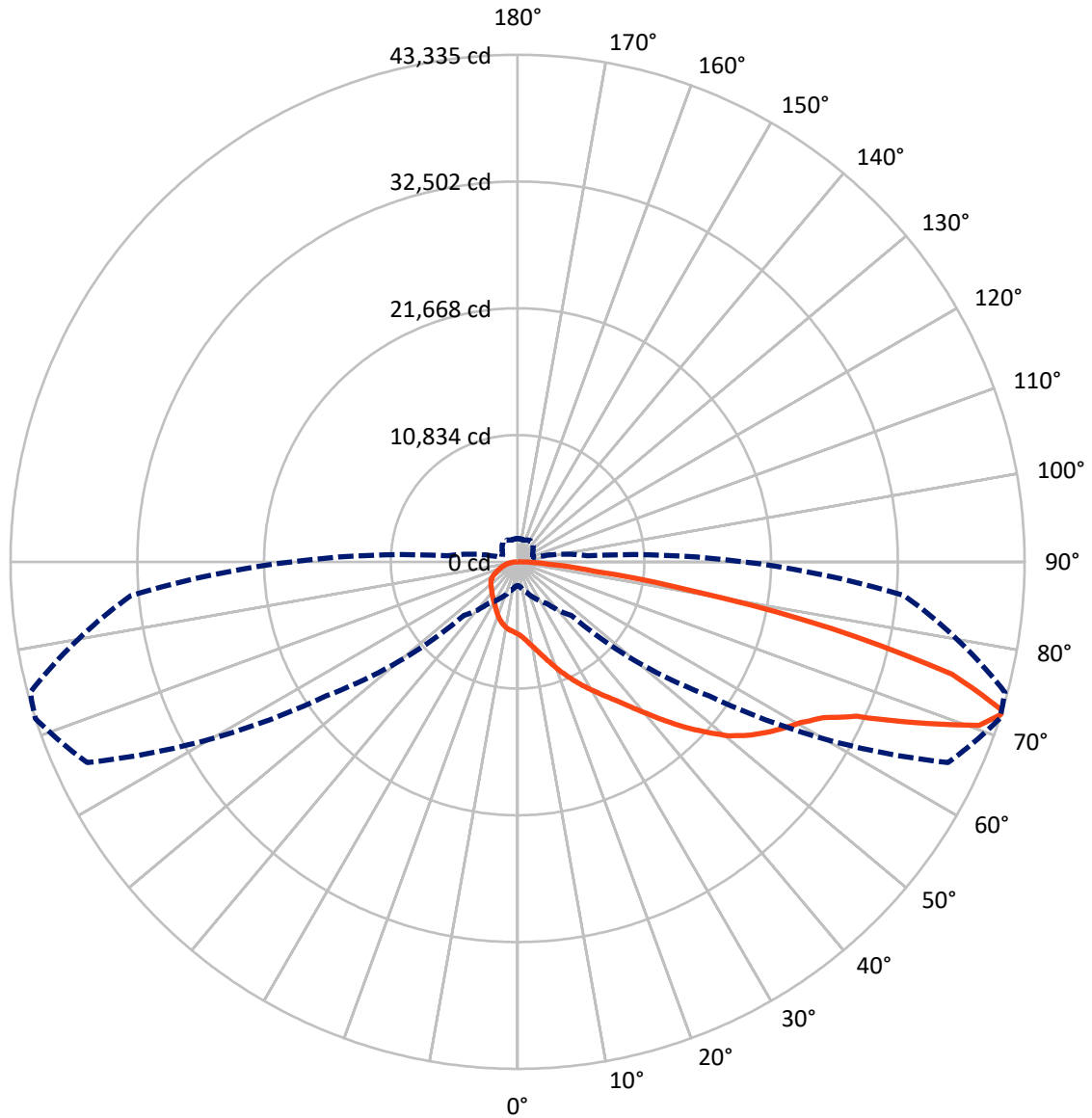
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.6 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	9306.9	0.0	9306.9
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	40863.4	0.0	40863.4
	% Fixture	81.4	0.0	81.4
Total	Lumens	50170.4	0.0	50170.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	618.5	1.2
10°-20°	1998.6	4.0
20°-30°	3502.2	7.0
30°-40°	5192.7	10.4
40°-50°	7594.7	15.1
50°-60°	10450.3	20.8
60°-70°	11634.3	23.2
70°-80°	7883.4	15.7
80°-90°	1295.7	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°	50170.4	100.0
0°-180°	50170.4	100.0

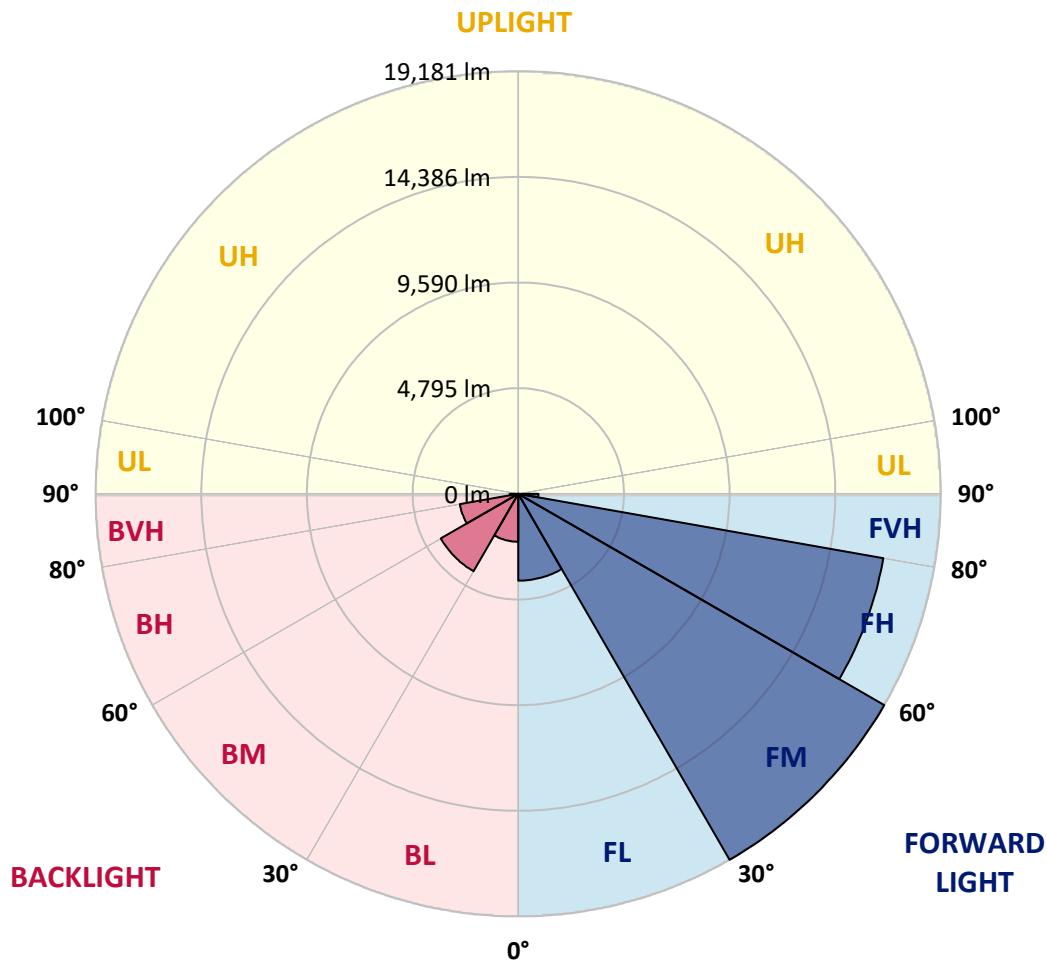


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3943.7	7.9			
FM (30°-60°)	19180.8	38.2			
FH (60°-80°)	16825.0	33.5			G5
FVH (80°-90°)	914.0	1.8			G5
BL (0°-30°)	2175.6	4.3	B3/2500		
BM (30°-60°)	4057.0	8.1	B3/5000		
BH (60°-80°)	2692.6	5.4	B4/5000		G4/5000
BVH (80°-90°)	381.7	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 III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	6172.2	6172.2	6172.2	6172.2	6172.2	6172.2	6172.2	6172.2	6172.2	6172.2	6172.2
2.5°	6818.4	6807.9	6771.7	6771.7	6702.6	6643.9	6533.3	6459.0	6370.9	6339.8	6236.2
5°	7478.3	7481.7	7436.7	7405.7	7303.8	7179.3	6991.1	6820.0	6649.0	6580.0	6367.5
7.5°	8032.7	8025.8	8013.7	7987.8	7892.8	7765.0	7511.1	7257.1	7004.9	6901.3	6535.0
10°	8388.6	8404.1	8414.5	8426.6	8386.9	8295.3	8055.2	7746.0	7416.1	7274.4	6735.5
12.5°	8568.3	8595.9	8644.3	8727.2	8792.9	8782.4	8608.0	8279.8	7887.6	7709.7	6985.9
15°	8673.6	8709.9	8785.9	8934.5	9119.3	9224.7	9178.1	8880.9	8443.9	8224.5	7291.7
17.5°	8739.3	8768.7	8886.1	9084.8	9359.4	9639.3	9762.0	9513.2	9072.7	8822.2	7642.3
20°	8784.2	8806.7	8953.5	9186.7	9542.6	9988.2	10330.3	10268.1	9765.4	9440.7	8008.6
22.5°	8884.4	8903.4	9043.3	9278.2	9672.2	10247.4	10877.9	10971.2	10496.1	10128.2	8400.7
25°	9164.3	9164.3	9281.8	9445.8	9815.5	10471.9	11340.8	11753.7	11242.4	10814.0	8763.4
27.5°	9698.1	9692.8	9736.1	9793.1	10072.9	10699.9	11753.7	12444.7	12016.3	11548.1	9115.8
30°	10330.3	10364.9	10370.0	10342.4	10473.7	10985.0	12135.5	13173.8	12795.4	12290.9	9476.9
32.5°	11143.9	11166.4	11140.5	11048.9	11029.9	11389.2	12510.4	13937.3	13638.4	13066.6	9806.9
35°	12177.0	12133.8	12052.5	11866.1	11688.1	11930.0	12938.8	14700.8	14585.1	14004.6	10261.2
37.5°	13284.2	13286.0	13185.8	12762.6	12517.3	12620.9	13529.6	15566.3	15730.4	15120.6	10843.3
40°	14172.2	14218.9	14281.0	13724.8	13406.9	13550.3	14281.0	16569.9	17084.7	16443.9	11601.7
42.5°	14792.3	14845.9	15022.1	14673.2	14343.2	14609.3	15165.5	17641.0	18604.9	17971.0	12489.6
45°	15448.8	15478.1	15602.6	15452.2	15241.5	15841.0	16162.3	18750.0	20213.2	19598.2	13482.9
47.5°	16139.8	16170.9	16298.7	16198.5	16087.9	16991.4	17202.1	19795.1	21754.1	21386.1	14543.6
50°	16993.2	17013.9	17134.8	16953.4	16988.0	17858.6	18131.5	20753.9	23369.3	22992.6	15607.7
52.5°	18157.4	18162.7	18330.2	18166.1	18003.7	18494.3	18931.4	21657.4	24635.5	24457.6	16671.8
55°	19069.6	19124.9	19674.2	19639.6	19546.4	19071.3	19599.9	22517.6	25765.3	25849.9	17801.6
57.5°	18487.4	18703.3	19815.9	20600.2	21363.6	20506.8	20503.4	23486.7	26815.5	27216.4	19043.6
60°	16191.6	16485.3	18124.7	19864.2	22253.3	23004.8	22379.4	24670.1	27876.3	28570.7	20600.2
62.5°	11563.7	12047.4	14268.9	17046.7	21033.7	24659.6	26197.2	26547.8	29318.7	30139.2	22623.0
65°	5845.7	6212.0	8074.2	11420.3	16804.8	23578.3	30346.6	30659.2	31825.2	32554.2	25737.6
67.5°	3551.7	3689.9	4598.5	6351.9	10302.6	18366.5	31700.8	37512.1	36676.0	37062.9	30179.0
70°	2617.1	2719.0	3285.7	4218.5	5925.2	10777.7	27544.6	42402.6	41853.2	41810.0	33461.2
72°	2038.4	2112.7	2613.6	3408.3	4332.5	6466.0	19964.4	40597.3	43335.4	43117.7	33160.6
72.5°	1933.1	1998.7	2454.7	3207.9	4094.2	5861.3	17950.2	39379.5	43228.3	43129.8	32771.9
75°	1521.9	1568.5	1817.3	2480.6	3204.4	3325.3	9836.2	30517.6	38348.2	39942.6	29475.8
77.5°	1259.4	1266.3	1397.5	1805.2	2497.9	2351.1	4831.8	21173.6	27459.9	29213.3	20880.0
80°	1026.1	1034.8	1097.0	1266.3	1889.8	1739.6	2294.1	12175.2	15374.5	15393.5	9929.6
82.5°	817.1	818.8	888.0	926.0	1357.8	1243.8	1314.6	5716.3	6718.1	6462.5	3568.9
85°	575.2	563.1	867.2	760.0	888.0	798.1	725.6	2263.0	2777.8	2656.9	1117.7
87.5°	191.7	198.7	385.2	492.3	518.2	452.6	323.1	867.2	1048.5	1040.0	354.2
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°	6172.2	6172.2	6172.2	6172.2	6172.2	6172.2	6172.2	6172.2	6172.2	6172.2	6172.2
2.5°	6203.4	6148.1	6066.9	5977.1	5906.2	5833.7	5780.2	5752.5	5721.4	5695.5	5726.6
5°	6269.0	6165.4	5992.6	5823.3	5698.9	5588.4	5508.9	5467.4	5429.4	5403.5	5407.0
7.5°	6376.1	6208.6	5918.3	5671.3	5498.6	5379.3	5298.2	5270.5	5246.4	5239.4	5248.1
10°	6490.1	6243.0	5819.8	5491.7	5294.7	5196.3	5159.9	5178.9	5196.3	5211.8	5229.1
12.5°	6619.7	6274.2	5676.5	5280.9	5113.4	5075.4	5111.6	5194.5	5255.0	5291.3	5313.7
15°	6788.9	6301.8	5510.7	5070.1	4957.9	5001.0	5123.7	5267.1	5372.4	5439.8	5450.2
17.5°	6944.4	6300.1	5298.2	4857.6	4831.8	4957.9	5142.7	5344.8	5486.4	5581.5	5600.5
20°	7105.1	6253.5	5051.1	4650.4	4703.9	4911.2	5151.4	5394.9	5565.9	5676.5	5702.4
22.5°	7255.4	6172.2	4780.0	4462.0	4596.8	4849.0	5118.5	5365.5	5536.6	5626.4	5654.0
25°	7357.3	6030.7	4505.2	4303.1	4501.8	4773.0	5011.4	5210.1	5337.9	5382.8	5389.7
27.5°	7409.2	5845.7	4246.1	4164.9	4403.3	4648.6	4812.7	4911.2	4947.4	4944.0	4937.1
30°	7416.1	5602.2	4023.3	4052.7	4289.3	4465.6	4543.3	4524.2	4477.6	4398.1	4405.1
32.5°	7393.6	5327.5	3836.8	3945.6	4144.2	4242.6	4246.1	4154.6	4030.2	3904.1	3869.6
35°	7400.5	5058.0	3672.6	3824.7	3968.0	4011.2	3971.5	3836.8	3667.4	3505.0	3470.5
37.5°	7476.5	4823.1	3530.9	3684.7	3772.8	3783.2	3726.2	3584.5	3460.1	3301.2	3287.3
40°	7657.9	4655.5	3396.2	3527.5	3577.6	3582.8	3501.6	3401.4	3411.8	3327.1	3325.3
42.5°	7984.4	4583.0	3277.0	3363.4	3394.5	3404.8	3342.7	3278.8	3368.6	3313.3	3294.3
45°	8405.9	4600.3	3176.9	3202.8	3259.8	3308.1	3270.1	3192.4	3226.9	2986.8	2907.4
47.5°	8893.0	4710.8	3097.4	3064.5	3163.0	3254.5	3195.9	3078.4	2955.7	2717.3	2672.4
50°	9463.1	4881.9	3024.8	2928.0	3057.6	3182.0	3123.3	2955.7	2770.9	2655.1	2639.5
52.5°	10057.4	5090.9	2952.3	2777.8	2924.6	3126.7	3097.4	2928.0	2700.0	2586.1	2565.3
55°	10731.1	5301.6	2860.7	2603.3	2781.2	3100.8	3085.3	2827.9	2646.5	2582.5	2567.1
57.5°	11568.9	5541.8	2739.8	2421.9	2646.5	3007.5	2959.2	2767.4	2591.2	2542.8	2537.6
60°	12660.7	5895.9	2565.3	2228.4	2482.4	2864.1	2853.8	2679.3	2503.1	2468.6	2461.6
62.5°	14298.3	6481.5	2325.1	2035.0	2299.2	2620.5	2715.6	2560.1	2409.8	2408.1	2411.6
65°	16837.7	7362.5	2064.3	1865.7	2114.4	2415.0	2555.0	2437.5	2314.8	2349.4	2354.6
67.5°	19781.3	8093.2	1808.7	1699.8	1926.2	2219.8	2409.8	2314.8	2188.7	2278.6	2280.2
70°	20760.7	7440.3	1584.1	1535.7	1730.9	2031.5	2252.7	2180.1	2052.2	2142.1	2133.4
72°	19320.0	6006.4	1439.0	1411.4	1584.1	1876.0	2112.7	2054.0	1927.8	1988.3	1965.8
72.5°	18865.7	5726.6	1402.7	1380.3	1544.3	1836.3	2076.4	2022.9	1896.7	1948.6	1927.8
75°	16829.1	4973.4	1205.8	1210.9	1347.4	1642.8	1872.6	1855.3	1725.8	1730.9	1724.0
77.5°	12206.3	3646.7	1015.8	1050.3	1147.0	1444.2	1667.0	1656.7	1515.0	1489.1	1483.9
80°	5664.4	1860.5	827.5	843.1	943.2	1207.5	1421.7	1407.8	1293.9	1261.0	1242.0
82.5°	1939.9	884.5	621.9	632.2	730.7	972.5	1233.5	1224.8	1129.8	1065.9	1026.1
85°	692.7	440.5	435.3	425.0	521.7	765.3	1074.4	1027.9	888.0	756.6	753.2
87.5°	224.6	188.3	224.6	222.8	304.1	518.2	780.8	665.0	644.4	535.5	525.1
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)