

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: P383526

Luminaire Tested: **GLEON-SA8B-735-U-AFL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383526
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-29)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA8B-735-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 43770.6 lumens
Efficiency: N/A
Efficacy: 131.0 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

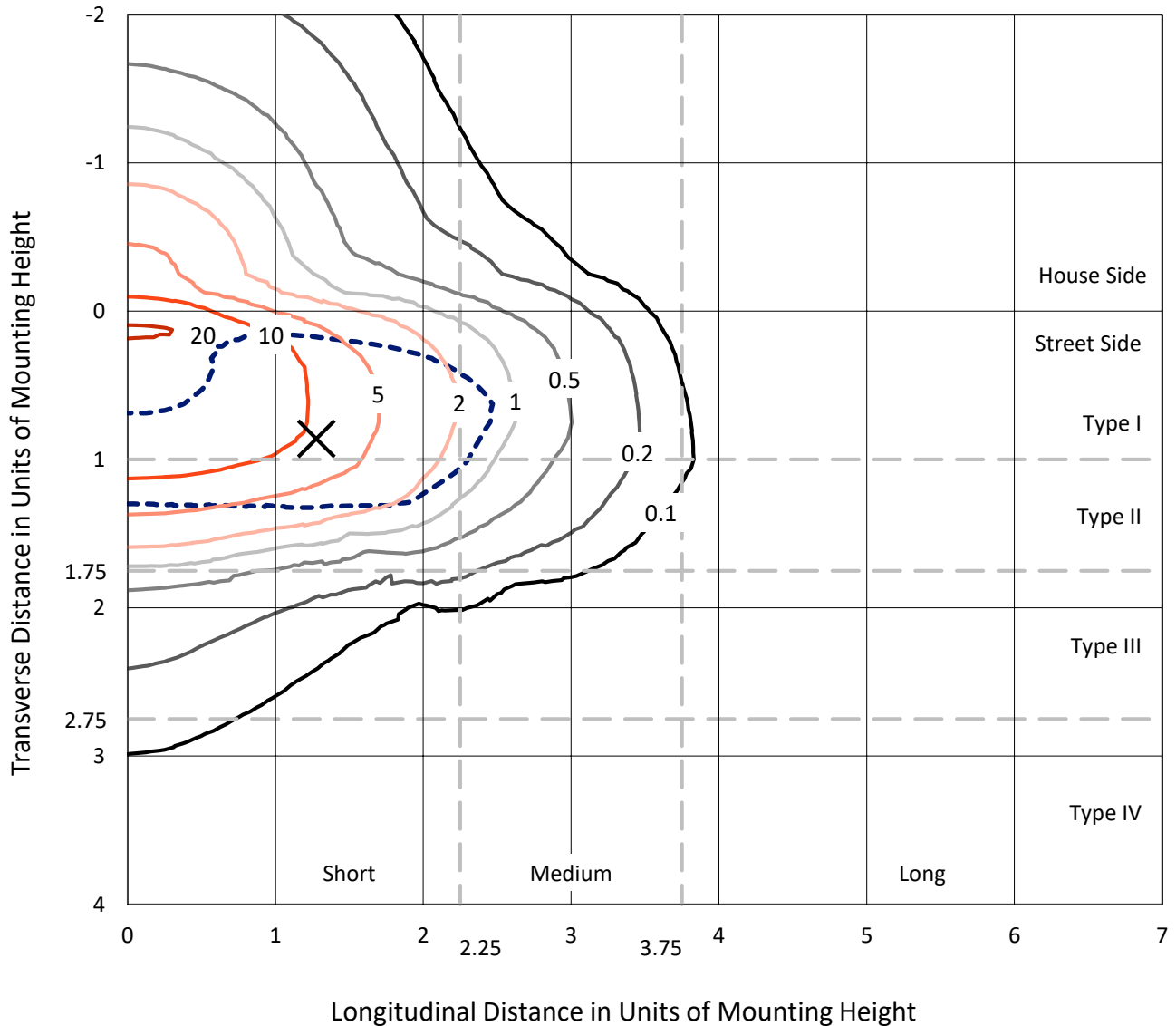
Input Watts (W): 334
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

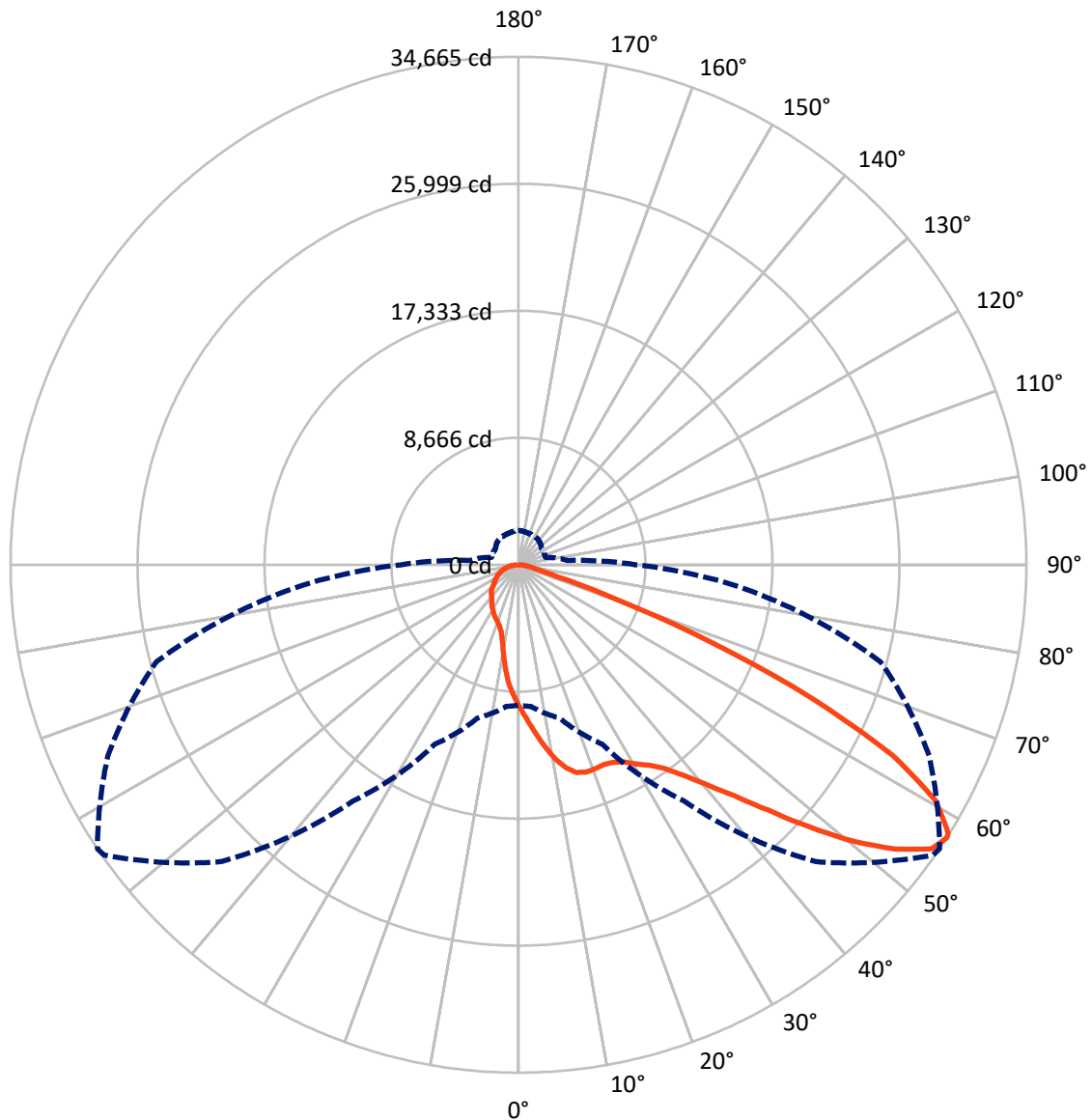
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 21.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 57-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7545.1	0.0	7545.1
	% Fixture	17.2	0.0	17.2
Street Side	Lumens	36225.5	0.0	36225.5
	% Fixture	82.8	0.0	82.8
Total	Lumens	43770.6	0.0	43770.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	927.4	2.1
10°-20°	2621.9	6.0
20°-30°	4270.7	9.8
30°-40°	6384.2	14.6
40°-50°	9683.4	22.1
50°-60°	10853.4	24.8
60°-70°	6410.4	14.6
70°-80°	2100.3	4.8
80°-90°	518.9	1.2
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°	43770.6	100.0
0°-180°	43770.6	100.0

Coefficient of Utilization

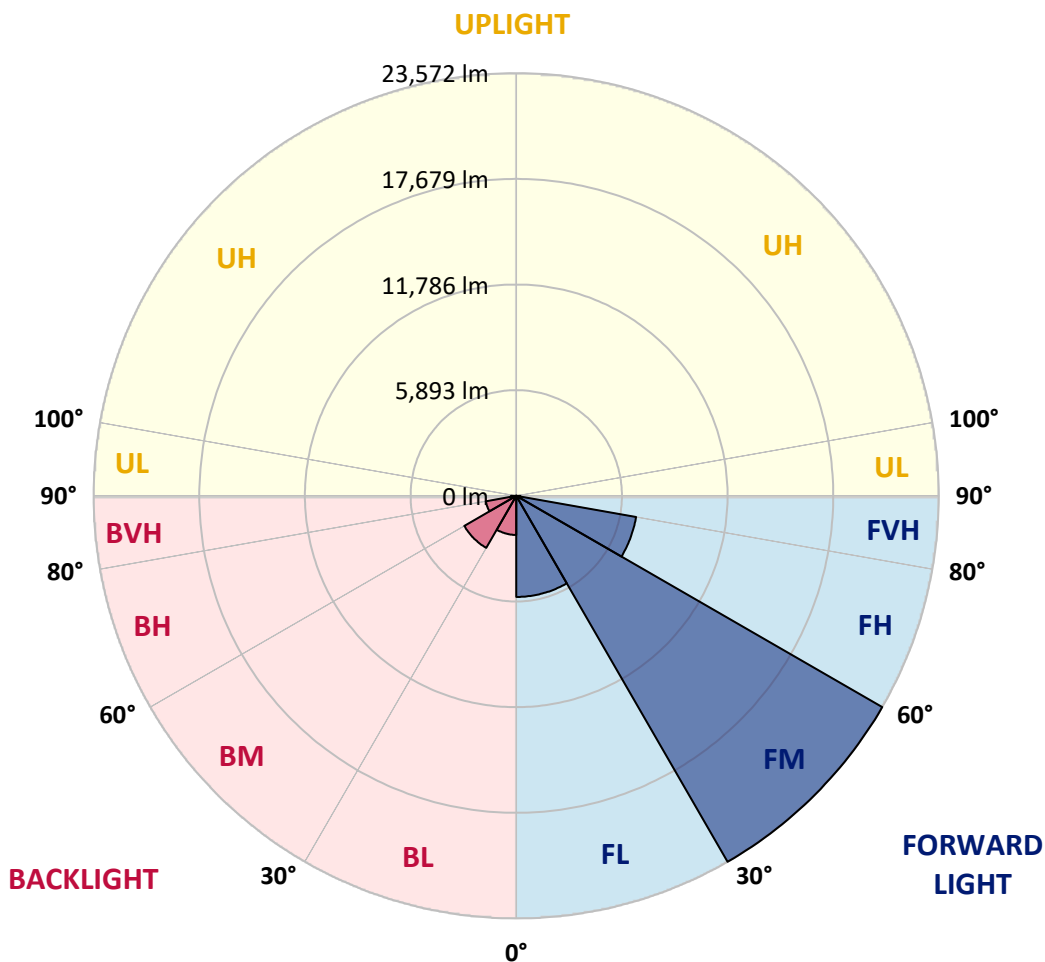


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5638.3	12.9			
FM (30°-60°)	23571.9	53.9			
FH (60°-80°)	6786.8	15.5			G3/7500
FVH (80°-90°)	228.5	0.5			G3/500
BL (0°-30°)	2181.7	5.0	B3/2500		
BM (30°-60°)	3349.0	7.7	B3/5000		
BH (60°-80°)	1724.0	3.9	B3/2500		G3/2500
BVH (80°-90°)	290.4	0.7			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	9708.4	9708.4	9708.4	9708.4	9708.4	9708.4	9708.4	9708.4	9708.4	9708.4	9708.4
2.5°	11147.9	11250.2	11205.1	11048.6	10928.3	10758.4	10568.8	10511.6	10311.6	10087.4	9818.1
5°	12912.4	12861.2	12787.5	12543.8	12286.6	11987.2	11512.0	11436.7	10991.5	10484.6	9949.0
7.5°	13917.2	13912.8	13869.1	13726.2	13491.5	13100.4	12527.3	12438.6	11766.2	10950.9	10120.5
10°	13771.3	13760.8	13833.0	13981.9	14052.6	13971.4	13488.5	13399.8	12573.9	11466.8	10319.1
12.5°	12942.5	12948.5	13064.3	13377.2	13802.9	14314.3	14236.1	14192.5	13411.8	12050.5	10559.7
15°	12297.2	12310.7	12402.4	12674.7	13177.1	14105.2	14690.4	14705.4	14222.6	12694.3	10841.1
17.5°	12014.4	12043.0	12085.1	12276.1	12736.4	13688.6	14798.8	14880.0	14932.6	13362.1	11111.8
20°	12104.6	12131.7	12143.7	12265.6	12643.2	13435.9	14723.5	14869.5	15477.1	13990.9	11382.6
22.5°	12509.3	12525.8	12533.3	12564.9	12858.2	13508.1	14673.8	14827.3	15871.2	14555.1	11587.1
25°	13180.2	13168.1	13120.0	13079.4	13276.4	13793.9	14788.2	14934.1	16191.6	15066.5	11721.0
27.5°	13983.5	13968.4	13875.1	13763.8	13876.6	14239.2	15117.6	15233.4	16479.0	15544.8	11788.7
30°	14947.6	14908.5	14732.5	14600.1	14643.7	14907.0	15660.6	15766.0	16922.7	16087.8	11854.9
32.5°	16062.3	16020.2	15766.0	15546.3	15546.3	15766.0	16220.2	16307.5	17298.7	16701.5	11961.7
35°	17458.2	17405.6	17074.6	16706.1	16602.3	16713.6	16982.9	17044.5	17975.7	17474.7	12155.8
37.5°	19103.8	19033.2	18604.4	18111.1	17883.9	17877.9	18071.9	18198.3	19057.2	18490.1	12485.2
40°	20754.0	20704.4	20329.8	19941.7	19496.5	19353.6	19652.9	19692.0	20471.2	19750.7	12906.4
42.5°	22029.6	22020.6	21951.4	22002.5	21546.7	21257.9	21492.6	21524.2	22198.0	21115.0	13354.7
45°	22703.5	22718.6	23053.9	23797.0	23965.6	23754.9	23870.8	23879.9	24171.6	22491.4	13765.3
47.5°	22163.5	22241.7	23090.1	24752.2	26131.7	26831.1	26638.6	26749.9	26085.0	23673.7	14087.2
50°	20059.0	20155.3	21599.4	24326.5	27142.5	29808.0	29707.2	29681.6	27628.4	24540.1	14261.7
52.5°	17452.2	17527.4	18718.8	22113.8	26400.9	31453.7	32378.7	32246.4	29000.3	25188.5	14294.8
55°	13482.5	13599.8	14741.6	17697.4	23401.5	30824.9	34343.3	34224.5	30250.2	25528.5	14255.7
57°	9585.0	9708.4	10842.6	13506.6	19686.0	28648.3	34538.9	34665.2	30925.7	25585.6	14299.3
57.5°	8553.1	8679.5	9803.1	12390.4	18527.7	27861.6	34370.4	34581.0	31047.5	25576.6	14323.4
60°	4306.6	4354.8	5070.8	6916.5	11712.0	22524.4	32172.7	32715.7	31157.3	25134.4	14427.2
62.5°	2677.5	2643.0	2620.4	3186.0	5698.1	14937.1	27637.4	28682.8	29055.9	24063.4	14175.9
65°	2354.1	2289.5	2041.2	1996.1	2516.6	7255.0	20812.6	22113.8	24565.7	22375.6	13577.3
67.5°	2211.2	2148.1	1868.3	1699.8	1701.3	2876.2	12921.4	14386.5	19137.0	19522.1	12164.8
70°	2063.8	2006.6	1744.9	1546.4	1448.6	1592.9	5944.8	7056.4	12474.6	15344.7	10167.2
72.5°	1874.3	1835.1	1587.0	1382.4	1278.6	1192.8	2276.0	2688.1	7221.8	10305.5	7060.9
75°	1675.8	1639.6	1427.5	1232.0	1105.7	938.6	1281.6	1380.9	3668.8	5272.4	3476.3
77.5°	1457.6	1436.5	1269.6	1089.1	988.3	777.7	907.0	955.2	1573.5	2260.9	1743.4
80°	1159.8	1200.4	1110.1	970.2	877.0	622.7	642.3	673.9	916.1	1104.1	989.8
82.5°	755.1	825.8	869.4	788.2	722.0	490.4	461.8	475.4	597.2	673.9	430.2
85°	314.4	353.5	571.6	516.0	479.8	358.0	309.8	315.9	370.0	383.6	176.0
87.5°	139.9	149.0	251.2	236.1	203.1	123.3	132.4	144.4	197.0	186.5	67.7
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°	9708.4	9708.4	9708.4	9708.4	9708.4	9708.4	9708.4	9708.4	9708.4	9708.4	9708.4
2.5°	9717.3	9591.0	9374.4	9135.2	8939.7	8783.3	8625.3	8517.0	8390.6	8323.0	8288.4
5°	9724.9	9476.7	9020.9	8553.1	8134.9	7752.9	7388.8	7109.0	6847.3	6705.9	6666.8
7.5°	9756.5	9383.5	8646.3	7876.2	7133.1	6454.7	5931.3	5603.3	5367.1	5261.8	5231.8
10°	9782.1	9273.6	8183.1	7042.9	6032.0	5344.6	4938.4	4754.9	4673.7	4660.2	4646.6
12.5°	9842.3	9160.8	7695.7	6173.4	5176.1	4700.8	4559.4	4547.3	4569.9	4603.0	4603.0
15°	9937.0	9049.5	7139.1	5427.3	4631.6	4464.6	4493.1	4559.4	4621.0	4672.2	4679.7
17.5°	10006.2	8912.6	6540.4	4830.1	4341.2	4386.4	4488.7	4581.9	4645.1	4694.7	4699.3
20°	10055.9	8700.6	5901.2	4374.4	4174.3	4314.2	4442.0	4524.7	4568.4	4618.1	4625.5
22.5°	10030.3	8416.3	5334.0	4047.9	4038.9	4208.8	4330.7	4430.0	4396.9	4348.7	4380.3
25°	9906.9	8025.1	4750.4	3804.3	3896.0	4067.5	4217.9	4151.7	4040.4	4019.3	4031.4
27.5°	9687.3	7525.7	4210.4	3578.6	3730.5	3936.6	3927.6	3861.4	3822.2	3795.2	3811.7
30°	9451.1	6984.2	3738.0	3381.5	3547.0	3717.0	3682.4	3680.9	3641.8	3598.1	3619.2
32.5°	9217.9	6439.7	3363.4	3219.1	3408.6	3431.2	3506.3	3529.0	3452.2	3360.5	3354.4
35°	9014.9	5925.2	3079.1	3071.7	3241.6	3244.7	3354.4	3322.8	3131.9	3037.0	3037.0
37.5°	8863.0	5412.3	2862.6	2939.3	3022.0	3100.3	3155.9	3025.0	2993.4	2940.8	2939.3
40°	8796.8	4961.0	2727.2	2838.5	2867.1	2966.3	2823.4	2874.6	2889.7	2862.6	2862.6
42.5°	8727.6	4568.4	2609.8	2761.8	2757.3	2743.8	2671.5	2737.7	2797.9	2799.4	2794.9
45°	8658.4	4229.9	2506.0	2597.8	2661.0	2515.1	2528.6	2599.3	2683.6	2713.7	2713.7
47.5°	8581.7	3962.2	2411.3	2424.8	2522.6	2424.8	2414.3	2468.4	2567.7	2615.9	2626.4
50°	8413.2	3721.5	2303.0	2272.9	2300.0	2333.1	2342.1	2367.7	2477.5	2554.2	2572.3
52.5°	8180.0	3506.3	2164.6	2133.1	2133.1	2257.9	2300.0	2307.5	2400.8	2492.5	2510.6
55°	7986.0	3369.5	2021.7	2015.7	2009.6	2178.1	2250.3	2262.4	2327.1	2399.3	2408.3
57°	7999.6	3359.0	1911.9	1917.9	1916.4	2096.9	2203.7	2229.3	2262.4	2324.0	2334.6
57.5°	8007.0	3366.5	1887.8	1890.9	1889.4	2074.4	2190.2	2218.8	2244.3	2309.0	2319.6
60°	8119.9	3386.1	1790.1	1757.0	1764.4	1954.0	2113.5	2149.5	2166.1	2251.8	2265.4
62.5°	7952.9	3298.8	1711.8	1632.1	1632.1	1827.7	2006.6	2063.8	2089.4	2205.3	2227.8
65°	7468.6	3053.6	1620.1	1490.7	1505.8	1701.3	1878.8	1972.1	2011.2	2155.6	2179.6
67.5°	6720.9	2769.3	1522.3	1364.3	1379.3	1568.9	1746.5	1847.2	1908.8	2101.4	2120.9
70°	5747.7	2421.8	1390.0	1230.5	1248.6	1424.5	1590.0	1704.3	1796.0	2050.2	2056.3
72.5°	4237.4	1985.6	1204.9	1083.0	1102.6	1256.0	1432.1	1564.4	1687.8	1922.4	1919.5
75°	2519.6	1552.3	1000.3	934.2	947.7	1090.6	1289.2	1450.0	1635.1	1872.8	1901.4
77.5°	1528.3	1168.8	815.3	782.2	798.7	944.7	1186.9	1358.3	1612.5	1765.9	1757.0
80°	923.6	834.9	651.3	630.3	646.9	807.7	1098.1	1289.2	1409.4	1508.7	1508.7
82.5°	482.8	509.9	478.3	461.8	484.4	655.8	998.8	1125.2	1245.5	1069.5	998.8
85°	197.0	266.2	290.4	288.8	302.4	454.3	862.0	962.8	803.3	762.7	780.7
87.5°	66.2	112.8	141.4	121.8	127.9	285.8	597.2	464.8	552.0	385.1	365.5
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)