

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: P383610

Luminaire Tested: **GLEON-SA9A-735-U-AFL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383610
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-SA9A-735-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 39816.2 lumens
Efficiency: N/A
Efficacy: 137.3 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

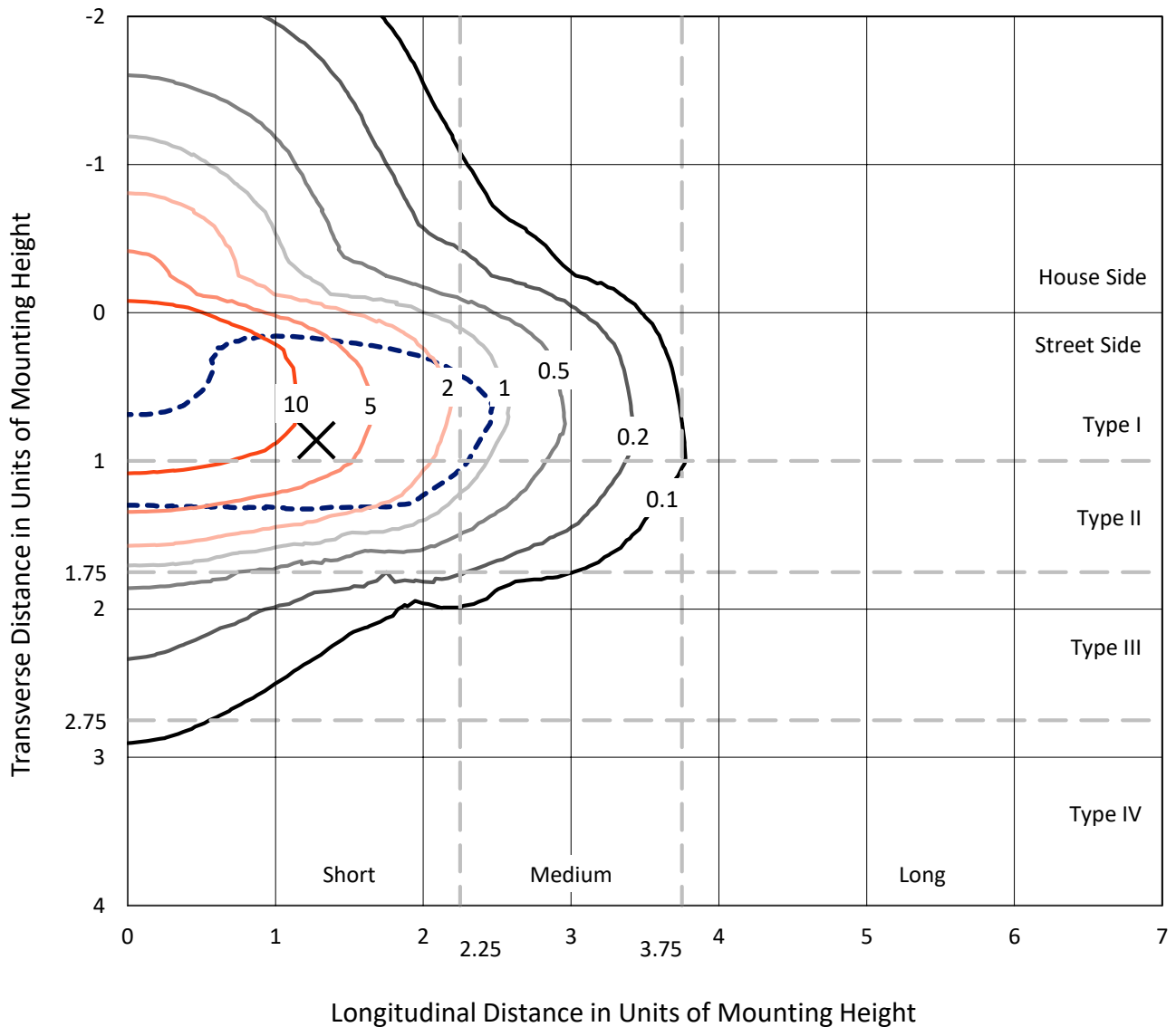
Input Watts (W): 290
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

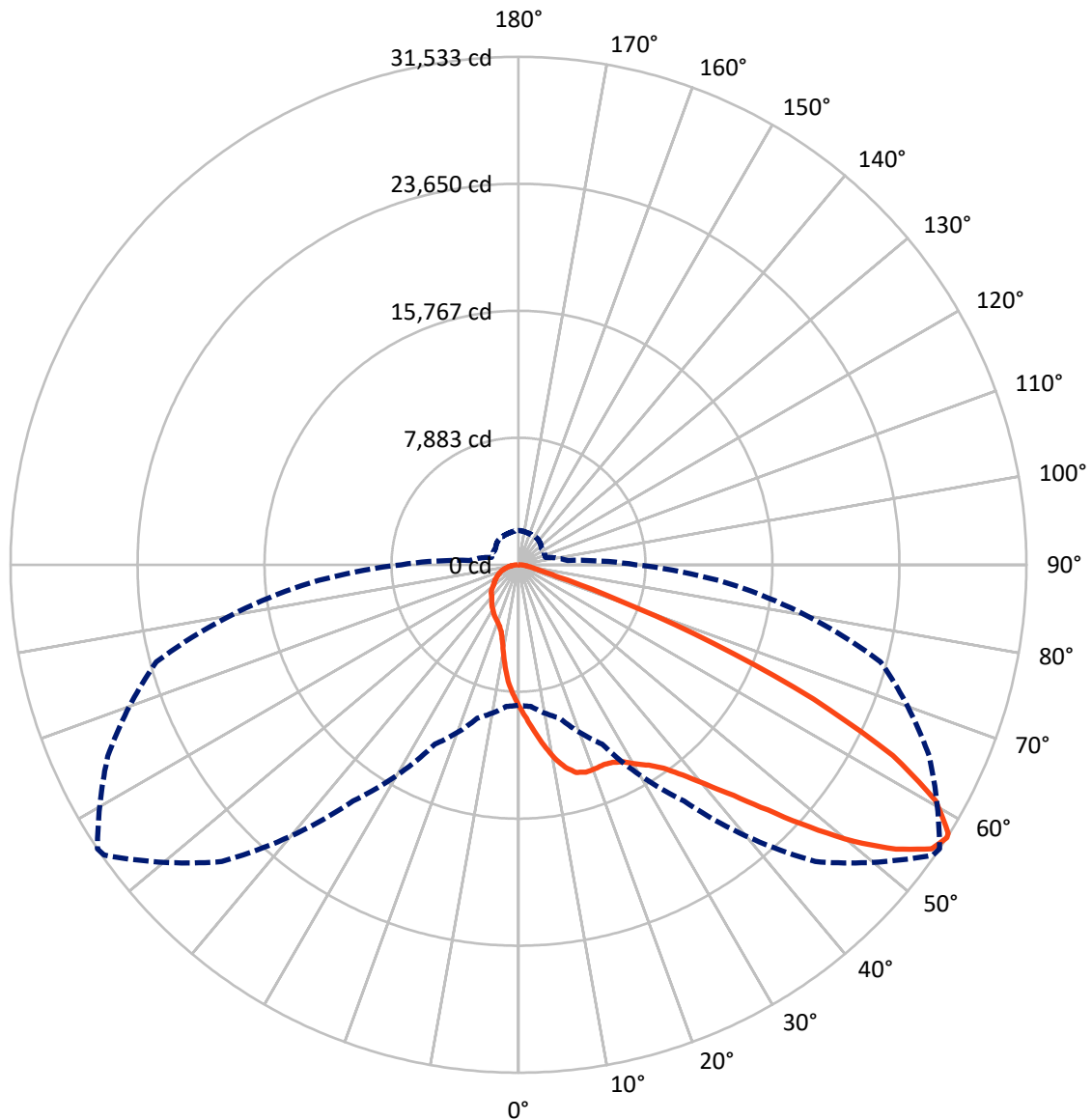
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19.6 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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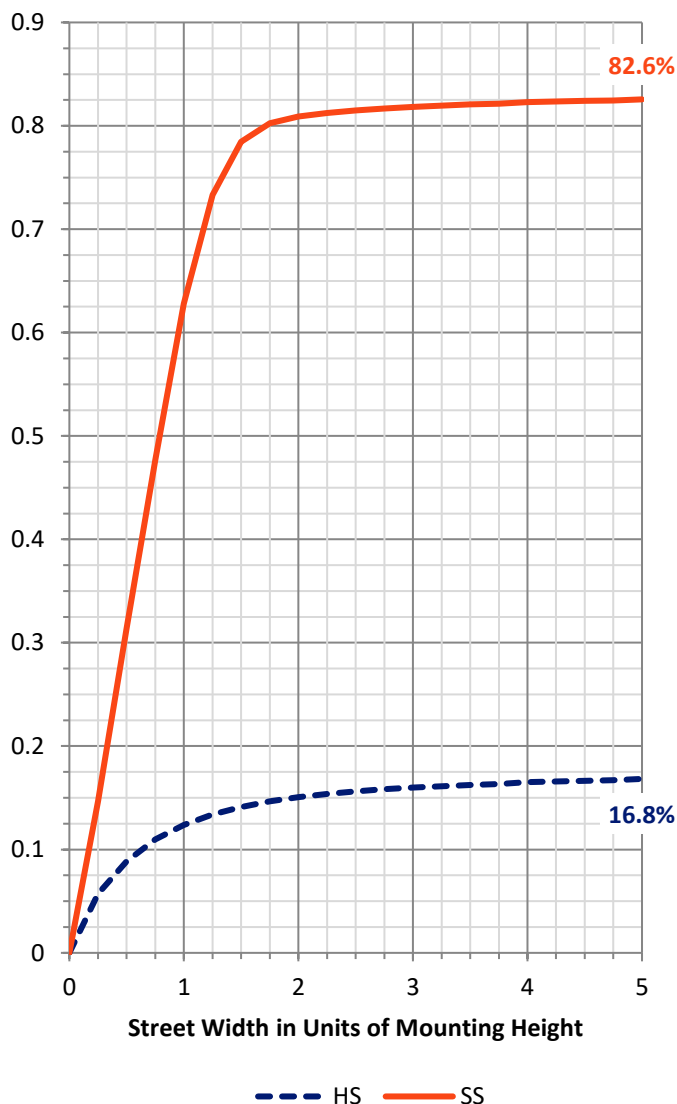
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6863.5	0.0	6863.5
	% Fixture	17.2	0.0	17.2
Street Side	Lumens	32952.7	0.0	32952.7
	% Fixture	82.8	0.0	82.8
Total	Lumens	39816.2	0.0	39816.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	843.6	2.1
10°-20°	2385.1	6.0
20°-30°	3884.8	9.8
30°-40°	5807.4	14.6
40°-50°	8808.6	22.1
50°-60°	9872.9	24.8
60°-70°	5831.3	14.6
70°-80°	1910.6	4.8
80°-90°	472.0	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°	39816.2	100.0
0°-180°	39816.2	100.0

Coefficient of Utilization

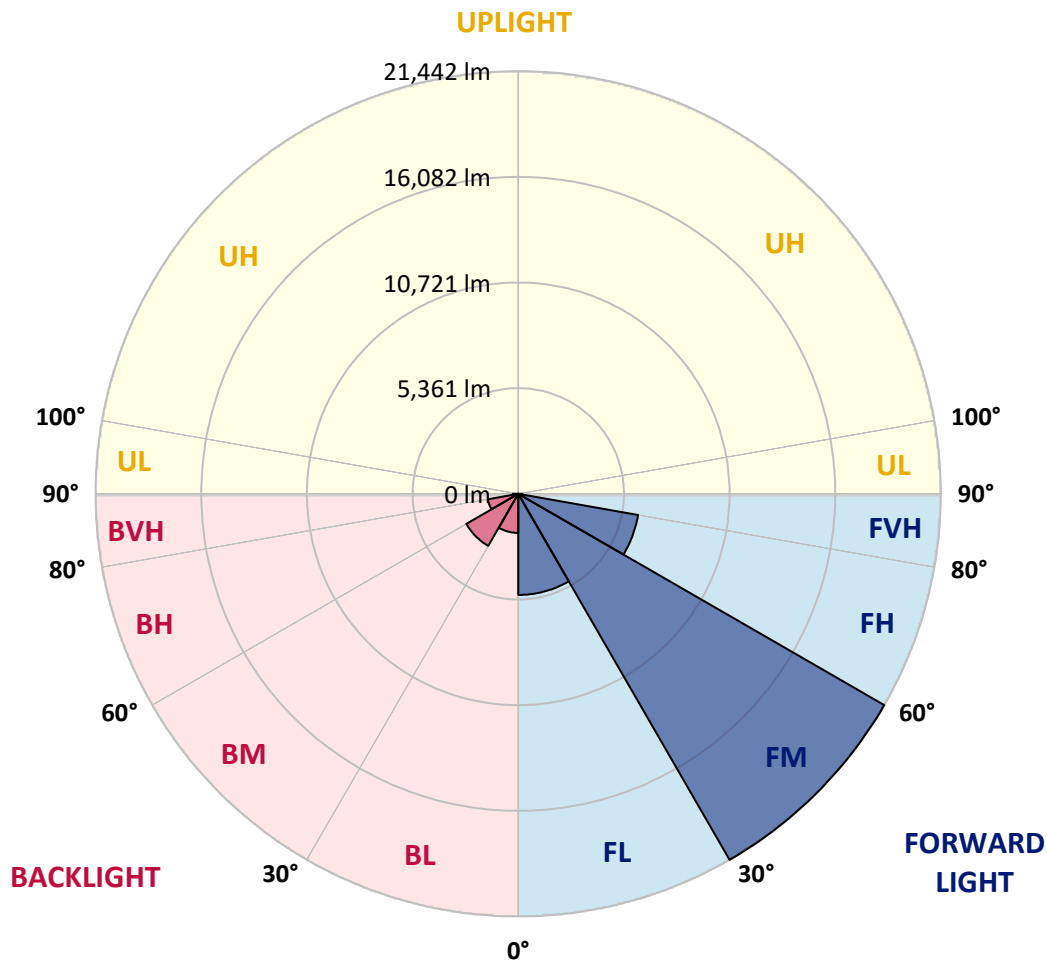


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5128.9	12.9			
FM (30°-60°)	21442.3	53.9			
FH (60°-80°)	6173.6	15.5			G3/7500
FVH (80°-90°)	207.8	0.5			G2/225
BL (0°-30°)	1984.6	5.0	B3/2500		
BM (30°-60°)	3046.5	7.7	B3/5000		
BH (60°-80°)	1568.2	3.9	B3/2500		G3/2500
BVH (80°-90°)	264.2	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°	8831.3	8831.3	8831.3	8831.3	8831.3	8831.3	8831.3	8831.3	8831.3	8831.3	8831.3
2.5°	10140.7	10233.8	10192.8	10050.5	9941.0	9786.4	9613.9	9562.0	9379.9	9176.1	8931.1
5°	11745.8	11699.3	11632.2	11410.6	11176.6	10904.3	10471.9	10403.5	9998.5	9537.4	9050.2
7.5°	12659.9	12655.8	12616.1	12486.1	12272.7	11916.9	11395.5	11314.8	10703.2	9961.5	9206.2
10°	12527.2	12517.6	12583.3	12718.7	12783.1	12709.1	12269.9	12189.2	11437.9	10430.8	9386.8
12.5°	11773.2	11778.7	11884.0	12168.6	12555.9	13021.2	12950.0	12910.3	12200.1	10961.8	9605.7
15°	11186.2	11198.5	11282.0	11529.7	11986.7	12831.0	13363.2	13376.9	12937.7	11547.5	9861.6
17.5°	10928.9	10954.9	10993.3	11167.0	11585.8	12451.9	13461.7	13535.7	13583.5	12154.9	10107.9
20°	11011.1	11035.7	11046.6	11157.4	11500.9	12222.0	13393.3	13526.1	14078.9	12726.9	10354.2
22.5°	11379.1	11394.1	11401.0	11429.7	11696.6	12287.7	13348.1	13487.7	14437.4	13240.1	10540.4
25°	11989.4	11978.5	11934.7	11897.7	12077.0	12547.7	13452.2	13584.9	14728.8	13705.3	10662.1
27.5°	12720.1	12706.4	12621.5	12520.3	12622.9	12952.7	13751.8	13857.1	14990.2	14140.4	10723.7
30°	13597.2	13561.7	13401.5	13281.1	13320.8	13560.3	14245.8	14341.5	15393.8	14634.4	10783.9
32.5°	14611.1	14572.9	14341.5	14141.8	14141.8	14341.5	14754.8	14834.2	15735.9	15192.7	10881.0
35°	15880.9	15833.0	15532.1	15196.8	15102.3	15203.6	15448.6	15504.7	16351.6	15896.0	11057.6
37.5°	17377.9	17313.7	16923.6	16474.8	16268.2	16262.8	16439.2	16554.2	17335.5	16819.7	11357.2
40°	18879.0	18833.8	18493.1	18140.1	17735.1	17605.0	17877.3	17912.9	18621.7	17966.3	11740.4
42.5°	20039.4	20031.2	19968.2	20014.8	19600.1	19337.4	19550.9	19579.5	20192.6	19207.4	12148.1
45°	20652.4	20666.0	20971.2	21647.1	21800.4	21608.8	21714.2	21722.4	21987.9	20459.4	12521.7
47.5°	20161.1	20232.3	21004.1	22516.1	23770.9	24407.1	24232.0	24333.2	23728.4	21535.0	12814.6
50°	18246.8	18334.4	19648.0	22128.8	24690.3	27115.0	27023.4	27000.1	25132.3	22323.1	12973.2
52.5°	15875.5	15943.9	17027.7	20115.9	24015.8	28612.0	29453.6	29333.1	26380.2	22912.9	13003.4
55°	12264.5	12371.1	13409.7	16098.5	21287.3	28040.0	31240.6	31132.5	27517.4	23222.1	12967.8
57°	8719.1	8831.3	9863.0	12286.4	17907.5	26060.0	31418.5	31533.4	28131.7	23274.1	13007.5
57.5°	7780.4	7895.3	8917.5	11271.0	16853.8	25344.4	31265.3	31456.8	28242.6	23265.9	13029.4
60°	3917.5	3961.3	4612.7	6291.7	10653.9	20489.6	29266.1	29760.1	28342.4	22863.6	13123.7
62.5°	2435.6	2404.1	2383.6	2898.1	5183.3	13587.6	25140.5	26091.5	26430.9	21889.3	12895.2
65°	2141.4	2082.7	1856.9	1815.8	2289.3	6599.5	18932.4	20115.9	22346.3	20354.0	12350.6
67.5°	2011.5	1954.0	1699.5	1546.2	1547.6	2616.3	11754.1	13086.8	17408.0	17758.4	11065.8
70°	1877.3	1825.4	1587.3	1406.6	1317.7	1449.1	5407.7	6418.9	11347.6	13958.4	9248.6
72.5°	1704.9	1669.3	1443.6	1257.5	1163.1	1085.1	2070.3	2445.2	6569.4	9374.5	6423.0
75°	1524.3	1491.5	1298.6	1120.7	1005.7	853.9	1165.8	1256.1	3337.4	4796.1	3162.2
77.5°	1326.0	1306.8	1154.8	990.7	899.0	707.4	825.1	868.9	1431.3	2056.6	1585.9
80°	1055.0	1092.0	1009.8	882.5	797.8	566.5	584.3	613.1	833.4	1004.4	900.3
82.5°	686.9	751.2	790.9	717.0	656.8	446.1	420.0	432.4	543.2	613.1	391.3
85°	286.0	321.6	520.0	469.3	436.5	325.7	281.9	287.4	336.6	349.0	160.1
87.5°	127.2	135.4	228.5	214.8	184.7	112.2	120.4	131.3	179.2	169.6	61.6
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°	8831.3	8831.3	8831.3	8831.3	8831.3	8831.3	8831.3	8831.3	8831.3	8831.3	8831.3
2.5°	8839.5	8724.5	8527.5	8310.0	8132.0	7989.7	7846.1	7747.6	7632.6	7571.1	7539.6
5°	8846.3	8620.5	8205.9	7780.4	7400.0	7052.5	6721.3	6466.8	6228.7	6100.1	6064.5
7.5°	8875.0	8535.7	7865.2	7164.6	6488.7	5871.5	5395.3	5097.1	4882.2	4786.5	4759.1
10°	8898.3	8435.8	7443.8	6406.5	5487.0	4861.7	4492.3	4325.4	4251.4	4239.1	4226.8
12.5°	8953.0	8333.2	7000.4	5615.6	4708.4	4276.1	4147.4	4136.5	4157.0	4187.1	4187.1
15°	9039.3	8231.9	6494.2	4937.0	4213.1	4061.3	4087.3	4147.4	4203.5	4250.1	4256.9
17.5°	9102.2	8107.4	5949.5	4393.7	3949.0	3990.1	4083.2	4167.9	4225.4	4270.6	4274.7
20°	9147.3	7914.5	5368.0	3979.1	3797.2	3924.4	4040.7	4115.9	4155.6	4200.8	4207.6
22.5°	9124.1	7655.8	4852.2	3682.2	3674.0	3828.7	3939.4	4029.8	3999.7	3955.9	3984.6
25°	9011.9	7300.1	4321.3	3460.5	3544.0	3700.0	3836.9	3776.6	3675.3	3656.2	3667.1
27.5°	8812.2	6845.9	3830.0	3255.3	3393.4	3581.0	3572.8	3512.5	3476.9	3452.3	3467.4
30°	8597.3	6353.2	3400.3	3076.1	3226.5	3381.1	3349.7	3348.4	3312.8	3273.1	3292.2
32.5°	8385.2	5857.9	3059.6	2928.2	3100.7	3121.2	3189.6	3210.1	3140.3	3056.9	3051.4
35°	8200.5	5389.9	2801.0	2794.2	2948.8	2951.5	3051.4	3022.7	2848.9	2762.7	2762.7
37.5°	8062.3	4923.3	2604.0	2673.7	2749.0	2820.2	2870.8	2751.7	2723.0	2675.1	2673.7
40°	8002.1	4512.8	2480.8	2582.1	2608.1	2698.4	2568.4	2614.9	2628.5	2604.0	2604.0
42.5°	7939.1	4155.6	2374.0	2512.3	2508.2	2495.9	2430.1	2490.4	2545.1	2546.5	2542.4
45°	7876.1	3847.8	2279.7	2363.1	2420.6	2287.9	2300.2	2364.5	2441.1	2468.5	2468.5
47.5°	7806.4	3604.3	2193.4	2205.8	2294.7	2205.8	2196.2	2245.4	2335.8	2379.5	2389.1
50°	7653.1	3385.2	2095.0	2067.6	2092.2	2122.3	2130.5	2153.7	2253.7	2323.5	2339.9
52.5°	7441.0	3189.6	1969.0	1940.3	1940.3	2053.9	2092.2	2099.1	2183.8	2267.4	2283.8
55°	7264.5	3065.1	1839.1	1833.6	1828.1	1981.4	2047.1	2058.0	2116.8	2182.5	2190.7
57°	7276.9	3055.5	1739.2	1744.6	1743.3	1907.4	2004.6	2027.9	2058.0	2114.1	2123.6
57.5°	7283.7	3062.4	1717.3	1720.0	1718.6	1886.9	1992.3	2018.3	2041.6	2100.4	2110.0
60°	7386.3	3080.2	1628.3	1598.3	1605.1	1777.5	1922.5	1955.3	1970.4	2048.4	2060.7
62.5°	7234.4	3000.8	1557.2	1484.6	1484.6	1662.5	1825.4	1877.3	1900.6	2006.0	2026.5
65°	6793.8	2777.7	1473.7	1356.1	1369.7	1547.6	1709.0	1793.9	1829.5	1960.8	1982.7
67.5°	6113.7	2519.1	1384.7	1241.1	1254.8	1427.2	1588.7	1680.3	1736.4	1911.5	1929.3
70°	5228.4	2203.0	1264.4	1119.3	1135.7	1295.8	1446.3	1550.4	1633.8	1865.1	1870.5
72.5°	3854.7	1806.2	1096.1	985.2	1003.0	1142.5	1302.7	1423.0	1535.3	1748.7	1746.0
75°	2292.0	1412.1	909.9	849.8	862.1	992.0	1172.6	1319.1	1487.4	1703.6	1729.6
77.5°	1390.2	1063.2	741.6	711.5	726.6	859.4	1079.7	1235.6	1466.8	1606.5	1598.3
80°	840.2	759.4	592.5	573.4	588.4	734.8	998.9	1172.6	1282.1	1372.4	1372.4
82.5°	439.2	463.9	435.1	420.0	440.6	596.6	908.5	1023.5	1132.9	972.9	908.5
85°	179.2	242.2	264.1	262.7	275.0	413.2	784.1	875.7	730.7	693.7	710.2
87.5°	60.2	102.7	128.6	110.9	116.4	260.0	543.2	422.8	502.2	350.3	332.5
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)