

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: P383575

Luminaire Tested: **GLEON-SA8C-735-U-T4FT**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383575
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-SA8C-735-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 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: 53123.4 lumens
Efficiency: N/A
Efficacy: 119.4 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

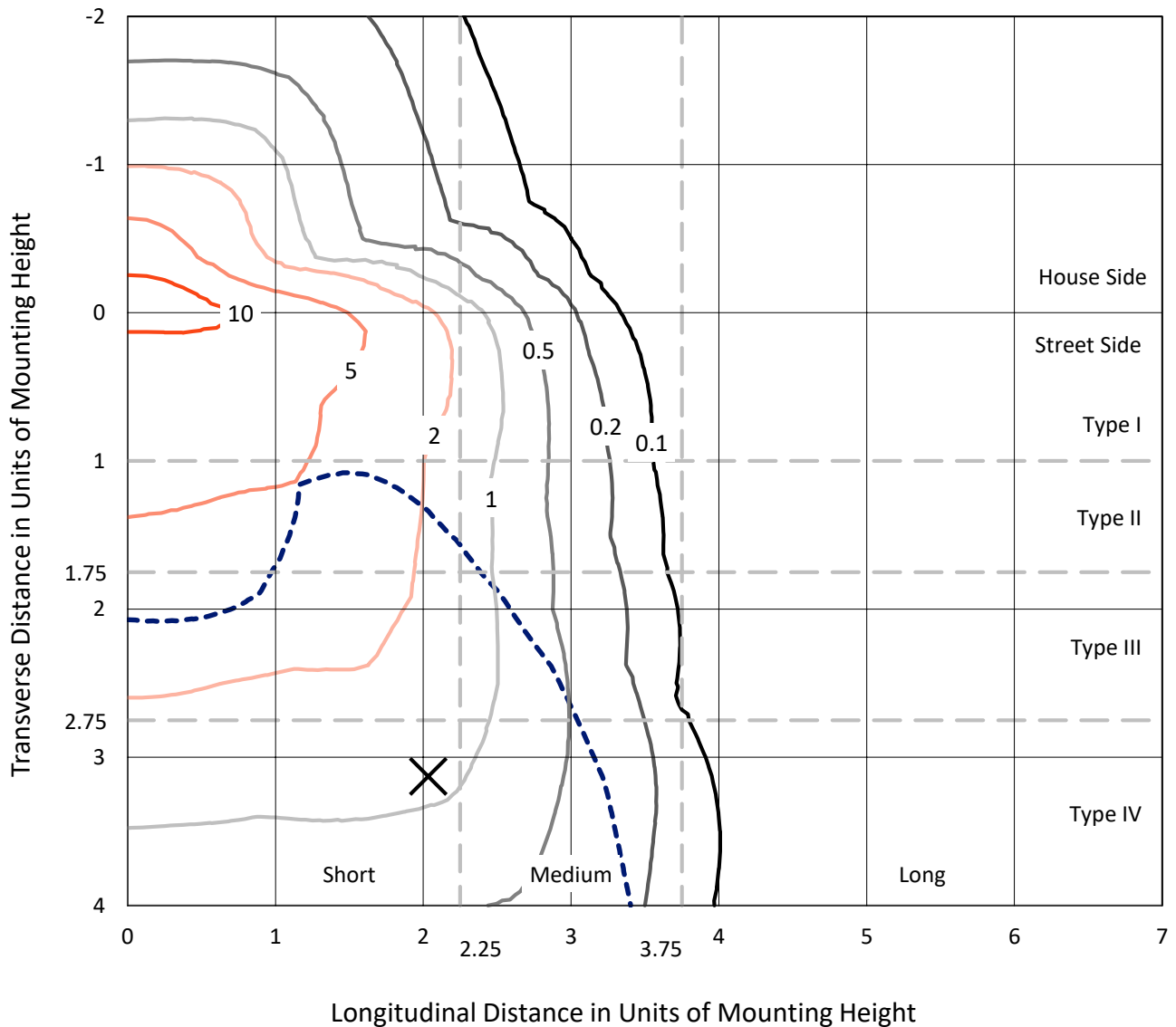
Input Watts (W): 445
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P383575
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Iso-Footcandle Lines of Horizontal Illumination

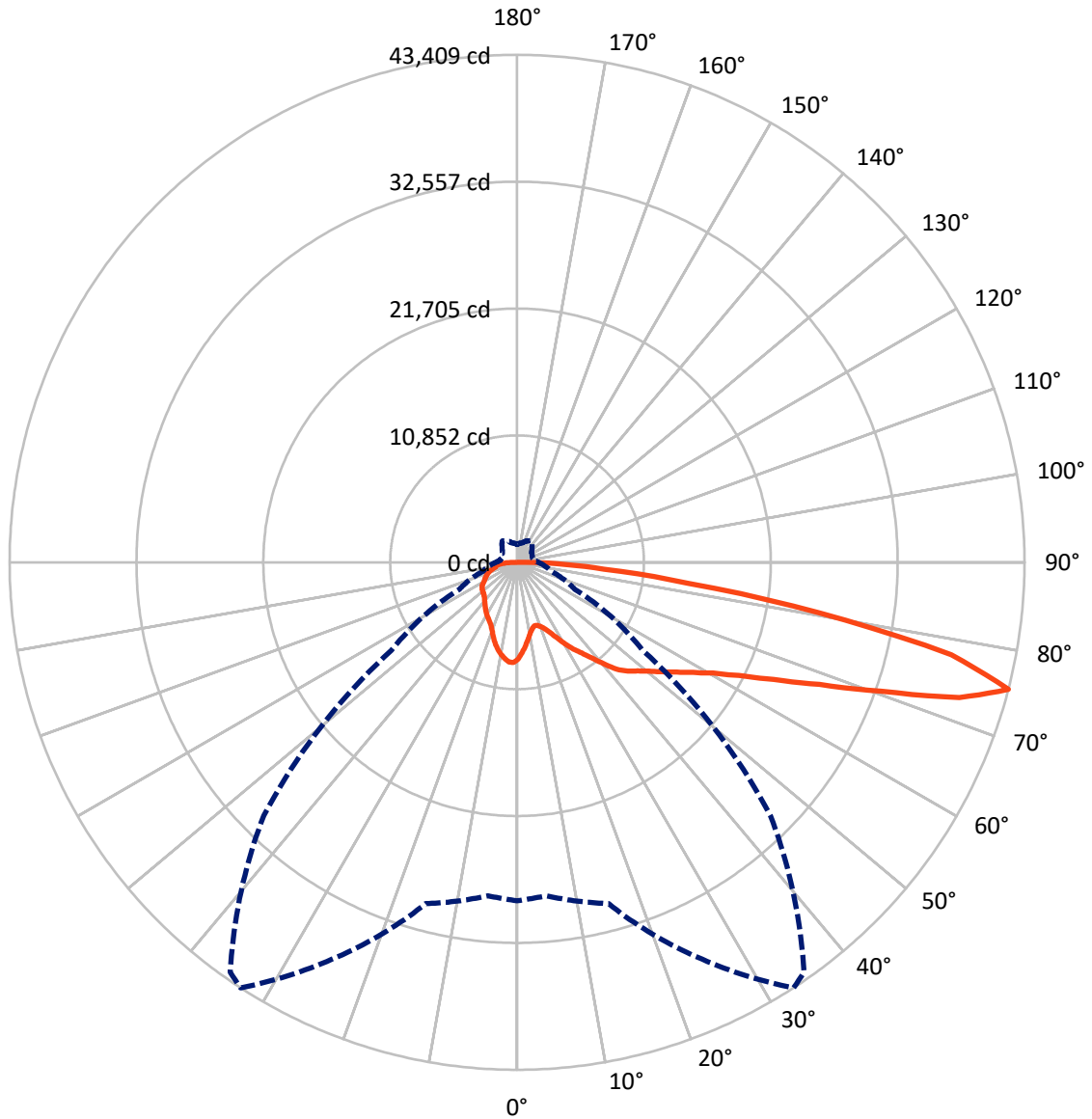
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.3 fc
 Type IV - Short - N/A

REPORT NUMBER: P383575
CATALOG NUMBER: GLEON-SA8C-735-U-T4FT

Luminous Intensity Polar Plot



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

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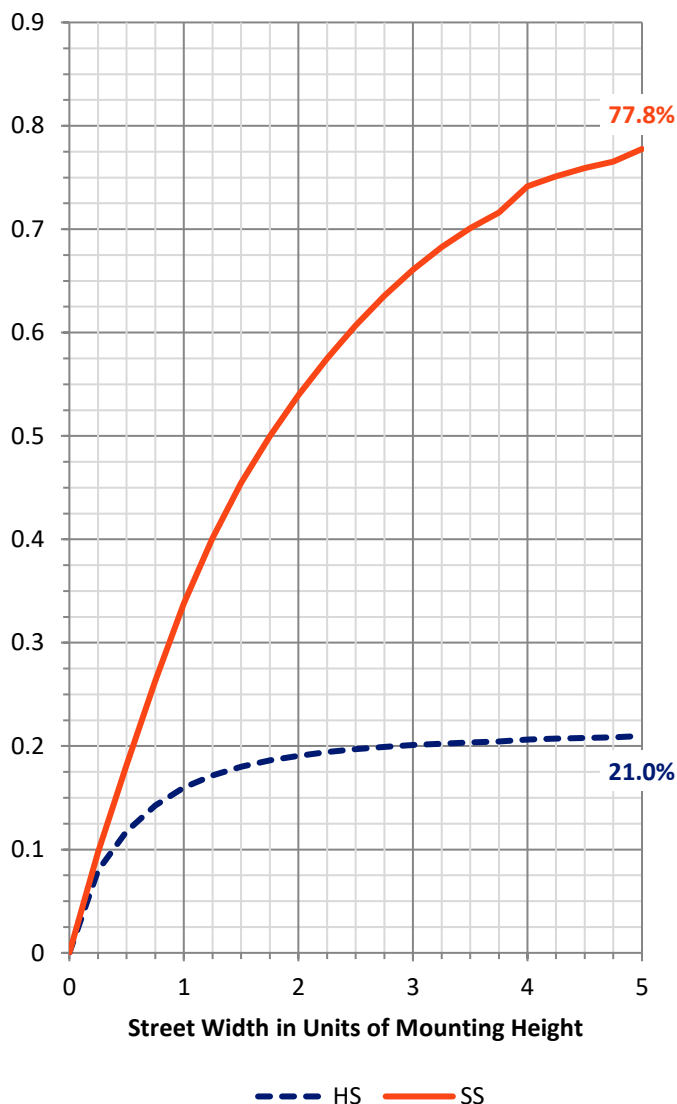
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11407.0	0.0	11407.0
	% Fixture	21.5	0.0	21.5
Street Side	Lumens	41716.4	0.0	41716.4
	% Fixture	78.5	0.0	78.5
Total	Lumens	53123.4	0.0	53123.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	750.9	1.4
10°-20°	2033.9	3.8
20°-30°	3321.6	6.3
30°-40°	4946.7	9.3
40°-50°	7094.9	13.4
50°-60°	9740.2	18.3
60°-70°	12194.2	23.0
70°-80°	11031.5	20.8
80°-90°	2009.5	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°	53123.4	100.0
0°-180°	53123.4	100.0

Coefficient of Utilization

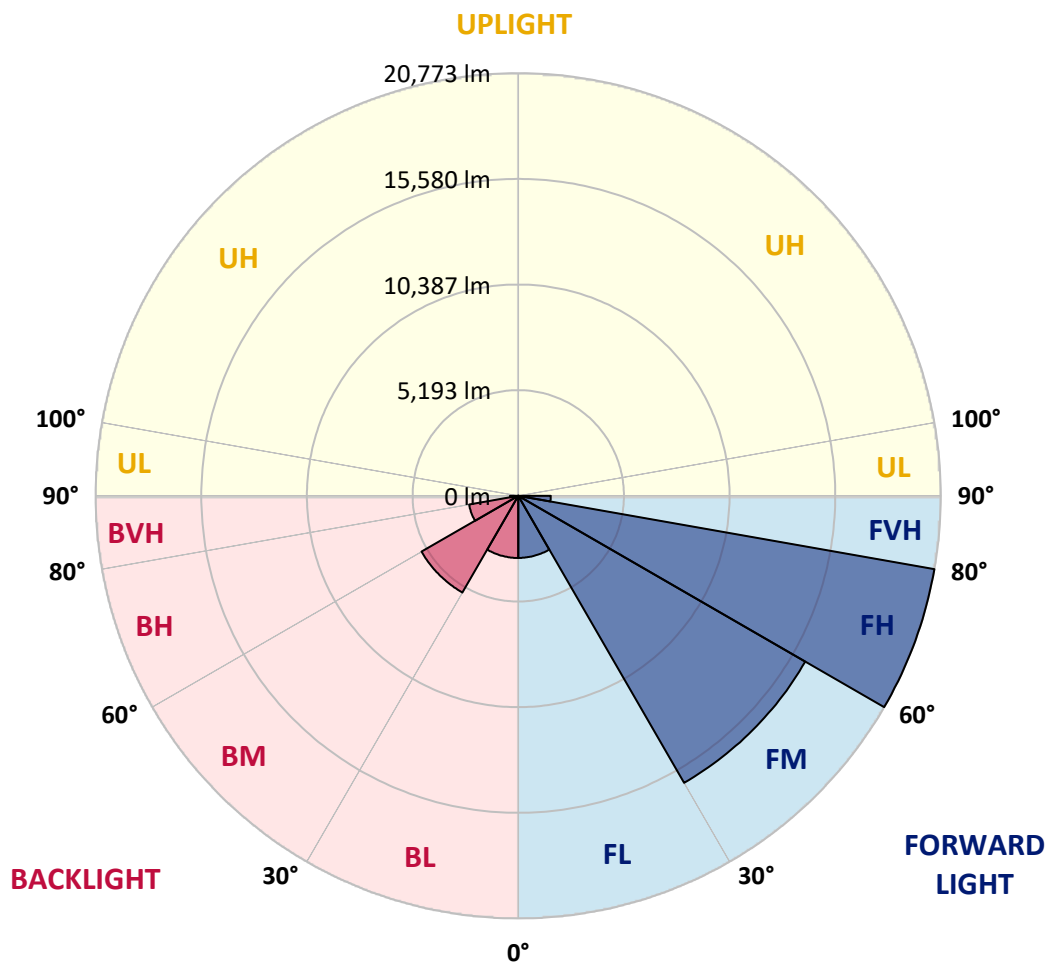


REPORT NUMBER: P383575
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3051.1	5.7			
FM (30°-60°)	16291.8	30.7			
FH (60°-80°)	20773.1	39.1			G5
FVH (80°-90°)	1600.4	3.0			G5
BL (0°-30°)	3055.3	5.8	B4/5000		
BM (30°-60°)	5489.8	10.3	B4/8500		
BH (60°-80°)	2452.7	4.6	B3/2500		G3/2500
BVH (80°-90°)	409.1	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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	33°	35°	45°	55°	65°	75°	85°
0°	8303.4	8303.4	8303.4	8303.4	8303.4	8303.4	8303.4	8303.4	8303.4	8303.4	8303.4
2.5°	7710.8	7681.4	7736.5	7743.8	7791.5	7809.8	7876.0	7978.7	8063.1	8160.4	8248.4
5°	7011.7	6991.5	7068.5	7123.5	7228.2	7272.2	7428.2	7646.5	7841.0	8061.2	8261.2
7.5°	6347.4	6336.3	6422.6	6547.4	6668.5	6729.0	6998.8	7316.3	7641.0	7997.1	8303.4
10°	5787.7	5784.0	5866.6	5989.5	6167.5	6235.4	6584.1	7002.4	7457.5	7947.5	8375.1
12.5°	5473.9	5486.7	5525.3	5628.0	5793.2	5861.0	6248.3	6740.0	7303.4	7931.0	8479.6
15°	5550.9	5571.1	5505.1	5501.4	5618.8	5672.1	6035.4	6552.9	7193.3	7958.5	8631.9
17.5°	5879.4	5883.1	5708.8	5598.7	5670.2	5697.7	5969.4	6446.4	7129.0	8020.9	8822.8
20°	6341.9	6332.7	6024.4	5840.9	5879.4	5886.7	6062.9	6448.3	7123.5	8129.2	9070.5
22.5°	6954.7	6886.8	6472.1	6222.6	6213.4	6202.3	6303.3	6584.1	7204.3	8305.3	9366.0
25°	7754.9	7690.6	7119.9	6778.6	6705.2	6677.6	6692.3	6874.0	7364.0	8494.3	9696.3
27.5°	8644.8	8532.9	7982.3	7499.7	7347.4	7308.9	7220.8	7283.2	7538.3	8676.0	10088.9
30°	9389.8	9329.3	8848.5	8276.0	8096.1	8041.0	7809.8	7742.0	7789.7	8923.8	10584.4
32.5°	9806.4	9766.0	9474.2	9011.8	8844.9	8767.7	8441.1	8305.3	8193.3	9314.5	11256.1
35°	10311.0	10285.3	10109.2	9773.3	9525.6	9444.9	9191.7	9050.4	8762.2	9852.2	12124.0
37.5°	10953.2	10925.7	10929.4	10657.8	10362.3	10287.2	10120.1	9971.5	9499.9	10558.7	13067.2
40°	11679.9	11626.7	11606.5	11593.7	11406.5	11364.3	11276.2	11074.3	10424.8	11402.8	13997.5
42.5°	12773.6	12584.6	12180.9	12333.2	12518.5	12496.5	12568.1	12278.2	11452.4	12401.0	14905.9
45°	13828.7	13518.6	12821.3	12854.3	13259.8	13382.8	13918.6	13713.1	12566.2	13494.8	15845.4
47.5°	14309.5	14074.7	13481.9	13483.8	13885.6	14140.7	15315.1	15168.3	13737.0	14737.1	16992.4
50°	14847.2	14612.3	14080.2	14280.2	14630.6	14902.2	16663.8	16588.6	14850.8	16096.9	18366.8
52.5°	15434.3	15036.2	14698.5	15056.3	15548.2	15863.8	18014.5	17808.9	15872.9	17465.8	19946.7
55°	15441.7	15333.5	15590.4	15852.8	16588.6	16975.8	19429.2	18886.1	16706.1	18810.8	21233.0
57.5°	16320.7	16144.6	16689.5	16810.6	17772.2	18209.0	20836.7	19823.8	17553.8	19842.2	21926.7
60°	17484.1	17333.6	17779.5	18098.9	19236.6	19820.1	22339.5	20787.1	18220.0	20620.2	21893.7
62.5°	19493.5	19322.8	19317.3	19765.0	21297.3	21976.2	24025.9	21732.2	18484.2	20774.3	20959.6
65°	22435.0	22163.4	21651.4	21864.3	24143.4	24820.5	25910.5	22416.7	18135.6	19948.5	18553.9
67.5°	25297.7	25288.4	24659.0	25095.8	27901.5	28444.7	28057.5	22484.6	17047.3	17073.0	14285.7
70°	28151.1	28187.8	28081.3	29600.8	32979.0	33544.2	30344.0	21572.5	14601.3	12329.5	8558.6
72.5°	30411.9	30402.6	30938.5	34856.3	39568.6	39442.0	32270.7	18809.0	10483.5	6655.6	4090.2
75°	28947.5	28628.2	30224.6	37458.4	43409.3	42790.9	30632.1	13120.4	5440.9	3029.6	2202.0
77.5°	18880.5	19183.4	21526.7	30944.0	37970.3	37217.9	22473.5	6121.7	2563.5	1987.4	1596.5
80°	6837.3	7156.6	10079.8	17528.2	26160.1	26037.1	11067.1	2515.8	1734.1	1501.0	1163.4
82.5°	2352.5	2469.9	3976.5	7784.2	14770.1	15320.6	4163.6	1429.5	1260.7	1064.3	796.4
85°	923.0	1056.9	1818.5	3745.3	7450.2	7505.2	1686.4	855.2	877.1	697.3	436.7
87.5°	350.4	425.7	869.8	1739.6	3402.1	3125.1	603.7	407.4	499.1	414.7	207.4
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°	8303.4	8303.4	8303.4	8303.4	8303.4	8303.4	8303.4	8303.4	8303.4	8303.4	8303.4
2.5°	8316.3	8354.9	8435.6	8490.7	8549.4	8565.9	8573.2	8587.9	8602.6	8597.1	8598.9
5°	8367.7	8442.9	8573.2	8628.3	8654.0	8624.6	8567.7	8521.9	8488.8	8470.5	8465.0
7.5°	8452.1	8558.6	8698.0	8688.8	8630.1	8499.8	8353.0	8242.9	8151.1	8118.2	8099.8
10°	8564.1	8688.8	8786.1	8681.5	8510.8	8285.1	8065.0	7894.3	7756.6	7703.4	7694.2
12.5°	8707.2	8833.8	8852.1	8630.1	8347.5	8039.3	7740.1	7514.4	7308.9	7242.9	7228.2
15°	8892.6	9011.8	8898.0	8540.2	8145.6	7730.9	7343.8	7037.3	6820.8	6740.0	6710.7
17.5°	9087.1	9200.8	8907.2	8391.6	7881.5	7365.7	6879.5	6565.7	6317.9	6224.4	6213.4
20°	9320.0	9371.5	8868.7	8178.7	7518.1	6892.3	6380.4	6085.0	5952.8	5886.7	5879.4
22.5°	9608.2	9553.1	8780.6	7890.6	7057.5	6345.5	5928.9	5791.3	5758.3	5743.6	5749.1
25°	9912.8	9744.0	8650.3	7514.4	6475.8	5798.7	5598.7	5637.2	5681.2	5675.7	5675.7
27.5°	10248.6	9938.5	8450.3	7015.3	5831.7	5350.9	5374.8	5516.1	5582.1	5580.3	5578.5
30°	10679.8	10158.7	8195.2	6415.2	5229.8	5035.3	5180.2	5352.8	5442.7	5439.0	5440.9
32.5°	11210.2	10400.9	7848.4	5745.4	4795.0	4802.2	4969.2	5139.9	5244.5	5235.3	5237.2
35°	11830.4	10672.5	7378.6	5084.9	4506.8	4616.9	4749.0	4868.4	4967.4	4954.5	4941.7
37.5°	12505.7	10938.6	6754.7	4494.0	4271.9	4444.4	4554.5	4574.7	4620.6	4587.6	4563.7
40°	13148.0	11142.2	5951.0	4009.6	4035.2	4297.6	4369.1	4288.5	4205.8	4194.9	4161.9
42.5°	13707.6	11210.2	5138.0	3622.3	3785.6	4143.5	4187.5	4018.7	3870.0	3800.3	3771.0
45°	14298.5	11234.0	4380.2	3297.5	3545.3	4005.8	4053.5	3827.8	3618.7	3468.2	3418.7
47.5°	15071.0	11406.5	3791.1	3057.2	3361.8	3914.1	3982.0	3675.5	3404.0	3189.2	3143.4
50°	16082.1	11747.8	3312.2	2873.6	3242.5	3853.5	3930.7	3526.9	3227.8	2969.0	2923.2
52.5°	17205.2	12061.6	2925.1	2725.0	3126.9	3747.2	3864.5	3420.5	3062.6	2765.4	2715.8
55°	17990.6	11821.2	2613.1	2570.9	2976.4	3594.8	3772.8	3330.6	2825.9	2567.2	2523.2
57.5°	18141.1	10999.2	2376.4	2411.2	2794.7	3404.0	3631.5	3130.6	2697.5	2481.0	2435.1
60°	17730.0	9854.1	2200.2	2264.4	2600.2	3163.5	3367.3	2989.2	2574.5	2389.2	2350.7
62.5°	16696.9	8681.5	2069.9	2132.3	2418.6	2919.6	3202.1	2840.7	2449.8	2284.6	2246.1
65°	14610.5	7288.7	1945.2	2014.8	2249.8	2708.5	3053.5	2703.0	2326.8	2200.2	2163.5
67.5°	11028.5	5459.1	1827.7	1890.1	2099.2	2525.0	2892.0	2567.2	2207.5	2126.8	2082.8
70°	6494.2	3418.7	1693.7	1759.8	1941.4	2334.2	2719.5	2418.6	2058.9	2022.2	1965.3
72.5°	3022.3	2057.0	1541.4	1605.6	1743.3	2079.1	2497.5	2224.1	1882.8	1802.0	1724.9
75°	1803.8	1504.7	1361.5	1418.5	1515.7	1807.5	2218.6	2025.8	1715.7	1609.3	1528.6
77.5°	1348.8	1150.6	1163.4	1224.0	1302.9	1581.8	1965.3	1869.9	1587.3	1504.7	1449.7
80°	970.8	873.5	948.7	1014.7	1097.4	1438.7	1882.8	1728.6	1435.0	1324.8	1273.5
82.5°	647.8	627.6	713.8	781.8	862.4	1258.8	1769.0	1513.9	1225.8	1086.4	972.5
85°	357.8	378.0	480.8	510.1	579.9	886.3	1449.7	1216.6	923.0	743.2	710.1
87.5°	148.7	174.3	258.8	249.6	308.2	528.5	954.2	734.0	587.2	438.6	341.3
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)