

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: P382673

Luminaire Tested: **GLEON-SA0C-735-U-T2R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P382673
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-8)
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-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 67944.3 lumens
Efficiency: N/A
Efficacy: 121.8 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G5

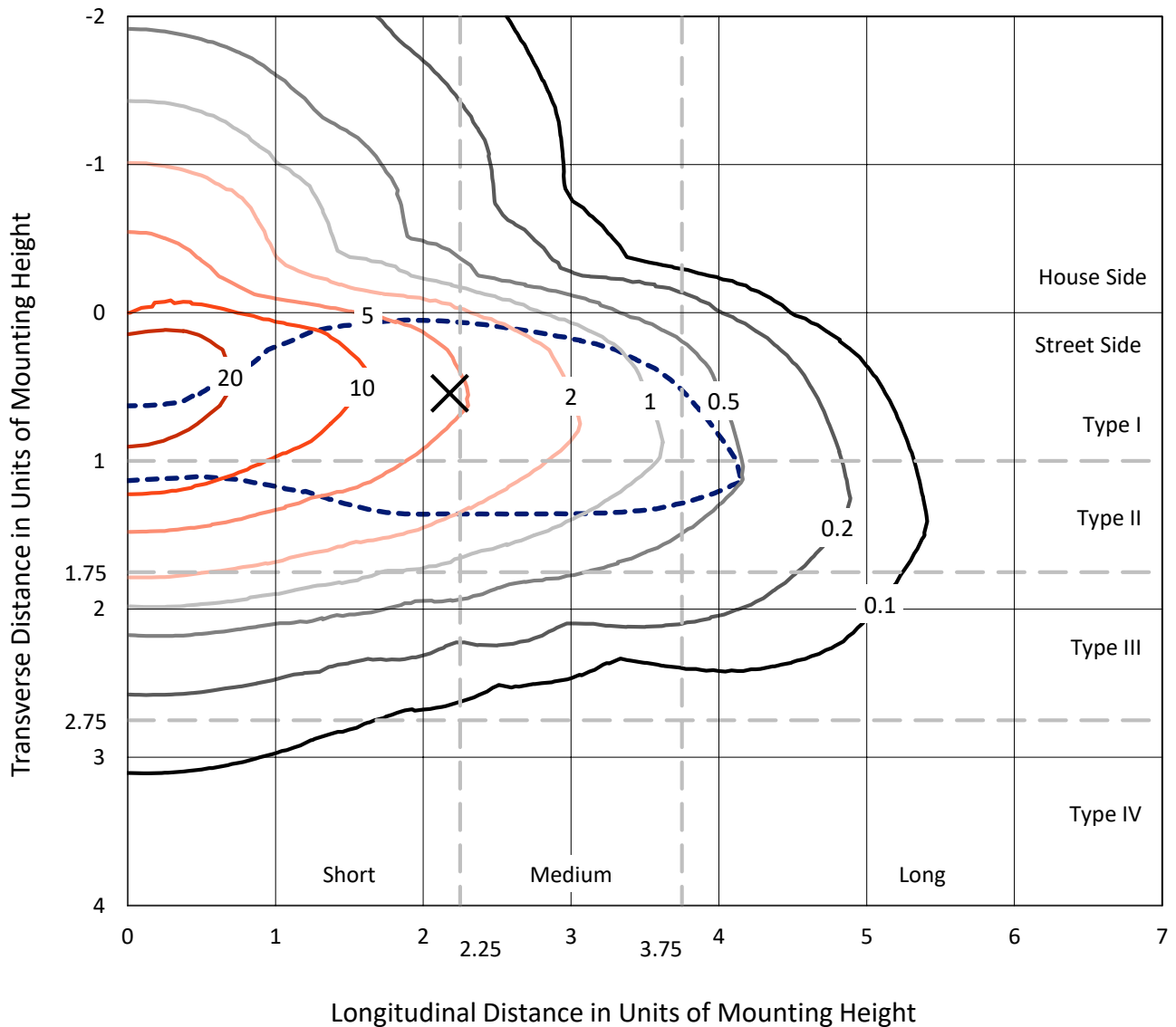
Input Watts (W): 558
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

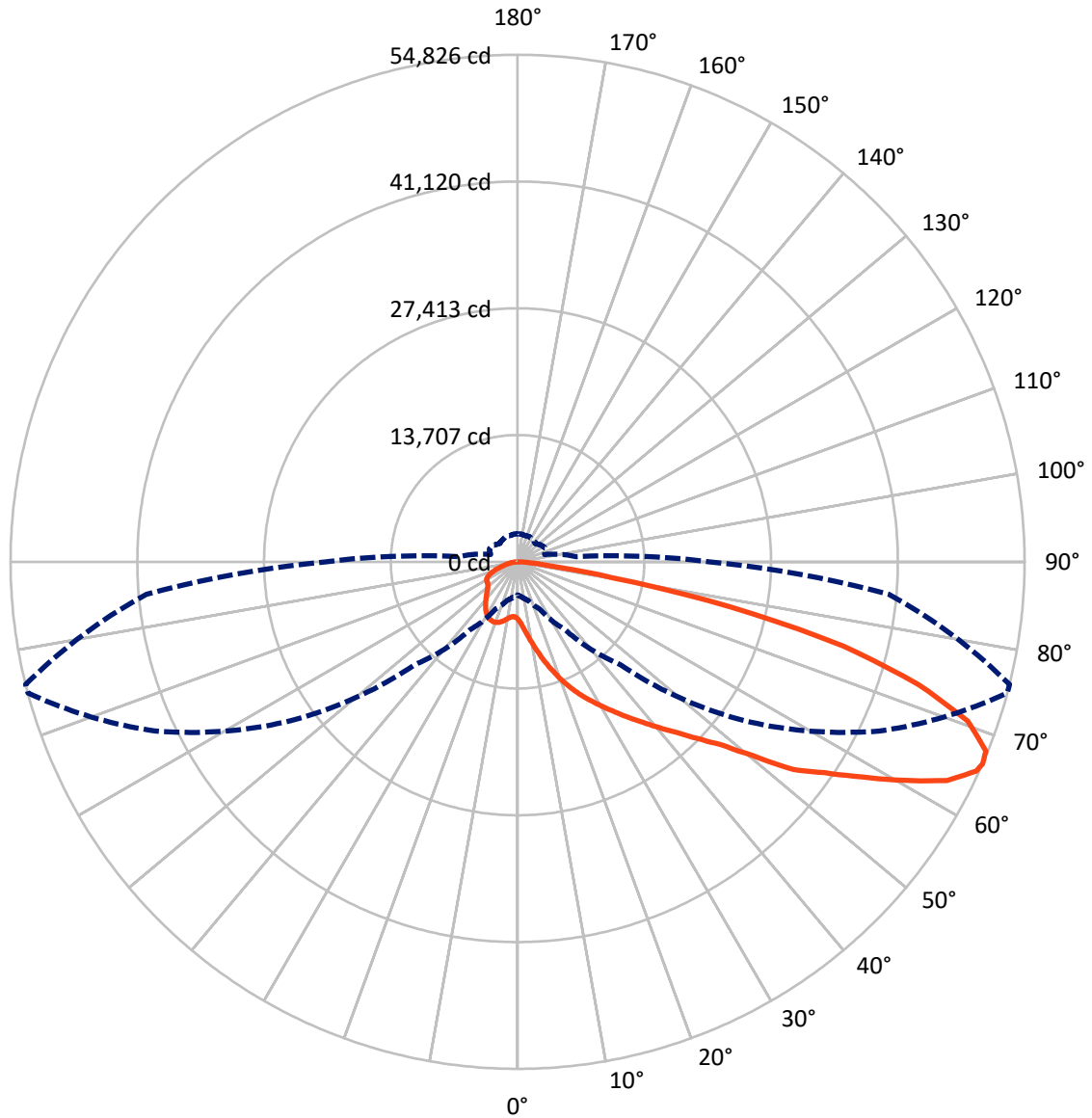
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 26.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical



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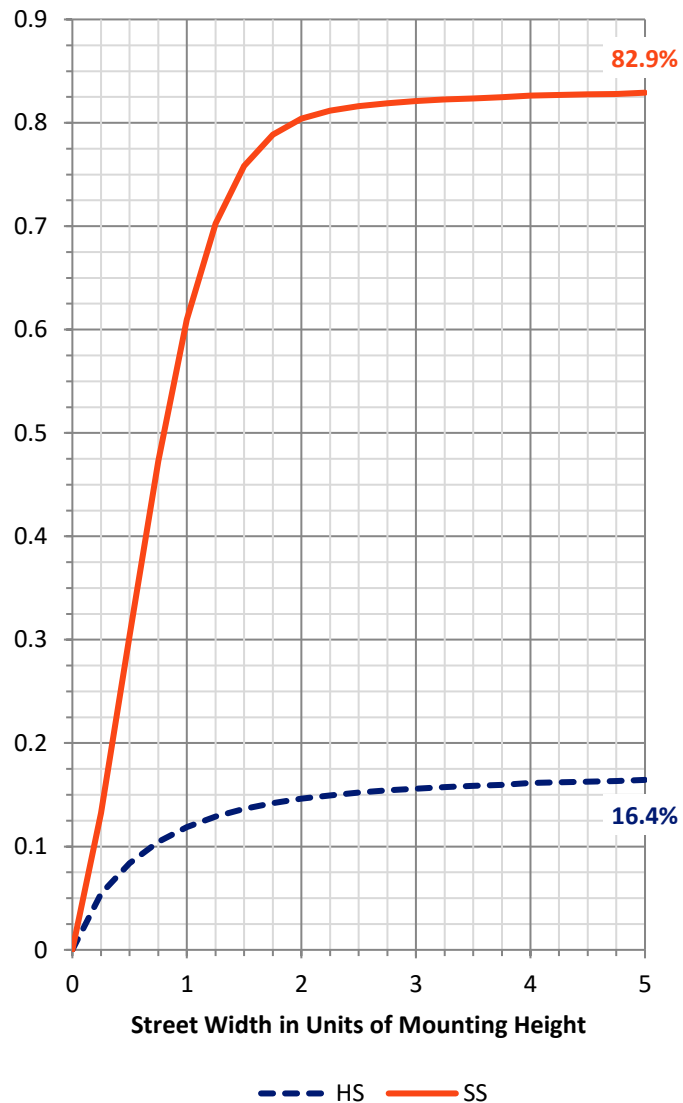
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11432.7	0.0	11432.7
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	56511.6	0.0	56511.6
	% Fixture	83.2	0.0	83.2
Total	Lumens	67944.3	0.0	67944.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	750.3	1.1
10°-20°	2963.0	4.4
20°-30°	5757.9	8.5
30°-40°	9398.1	13.8
40°-50°	12840.1	18.9
50°-60°	14956.1	22.0
60°-70°	13408.4	19.7
70°-80°	6776.1	10.0
80°-90°	1094.2	1.6
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°	67944.3	100.0
0°-180°	67944.3	100.0

Coefficient of Utilization

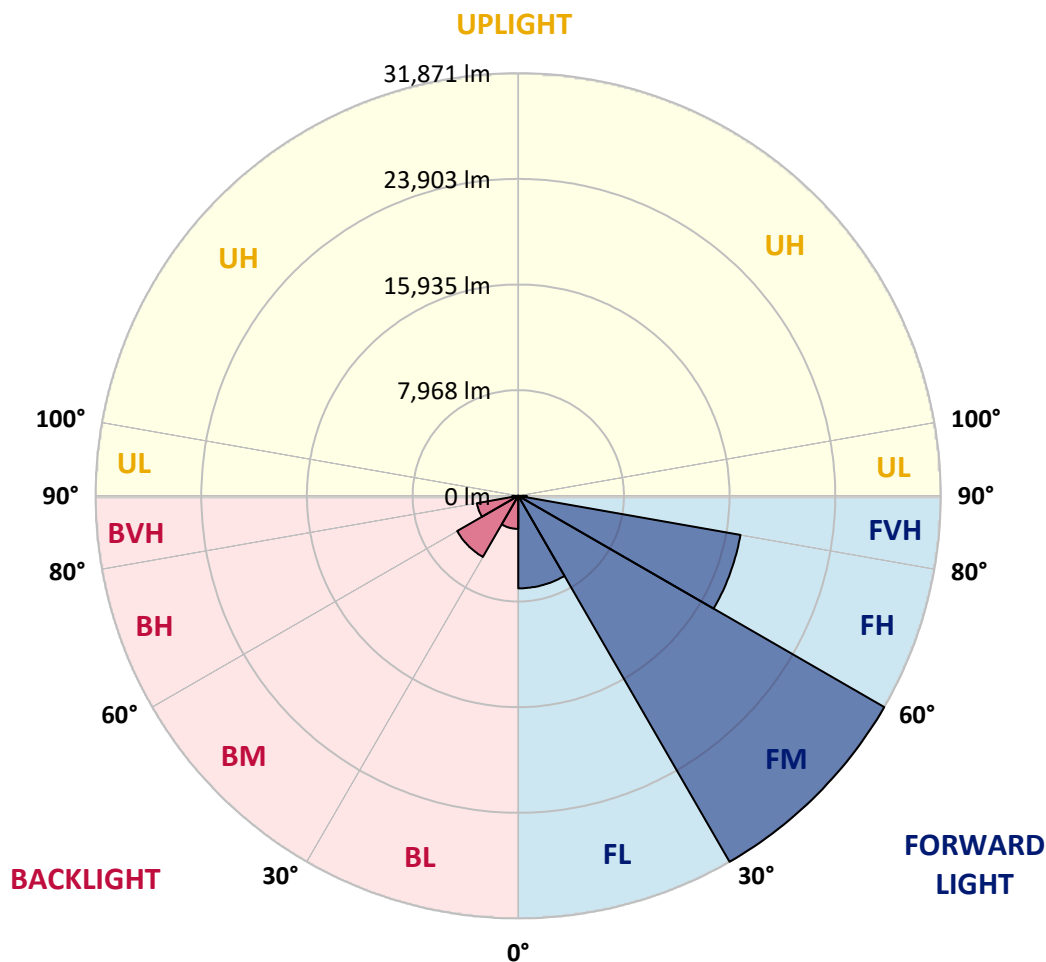


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6977.7	10.3			
FM (30°-60°)	31870.6	46.9			
FH (60°-80°)	17017.1	25.0			G5
FVH (80°-90°)	646.2	1.0			G4/750
BL (0°-30°)	2493.5	3.7	B3/2500		
BM (30°-60°)	5323.8	7.8	B4/8500		
BH (60°-80°)	3167.4	4.7	B4/5000		G4/5000
BVH (80°-90°)	448.0	0.7			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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	6204.9	6204.9	6204.9	6204.9	6204.9	6204.9	6204.9	6204.9	6204.9	6204.9	6204.9
2.5°	8237.0	8112.5	8100.9	7918.7	7877.2	7528.9	7272.8	7005.2	6700.8	6640.8	6400.9
5°	10580.5	10569.0	10409.9	10112.3	9879.3	9284.2	8696.0	8073.3	7390.4	7279.8	6740.0
7.5°	12688.8	12670.4	12548.1	12227.5	11890.7	11159.5	10319.9	9364.9	8257.7	8093.9	7199.0
10°	14289.6	14282.7	14241.1	14005.9	13719.8	13018.7	12091.4	10788.2	9265.7	9042.0	7773.4
12.5°	15525.9	15539.8	15567.5	15484.5	15348.4	14751.0	13800.6	12296.7	10340.6	10119.2	8412.3
15°	16363.3	16404.7	16547.8	16665.4	16736.9	16370.2	15449.8	13839.8	11544.7	11279.5	9120.4
17.5°	16785.4	16831.5	17078.3	17433.5	17761.1	17724.2	16993.0	15311.5	12700.3	12444.3	9881.6
20°	17149.8	17184.4	17461.2	17887.9	18466.9	18723.0	18312.4	16727.7	13966.7	13662.2	10688.9
22.5°	18206.3	18250.1	18333.1	18575.3	19087.4	19557.9	19359.6	18067.8	15126.9	14843.2	11454.8
25°	20245.3	20298.4	20118.4	19913.1	20010.0	20337.5	20374.5	19290.4	16303.3	15982.7	12278.2
27.5°	22701.9	22778.0	22471.3	21943.0	21481.7	21354.8	21311.0	20291.4	17426.6	17055.2	13092.4
30°	25107.7	25239.2	24840.2	24155.0	23308.5	22713.5	22272.8	21271.8	18533.8	18178.6	13860.6
32.5°	27458.2	27405.1	26826.1	26157.2	25165.4	24420.3	23354.6	22323.6	19779.4	19371.2	14624.1
35°	29068.2	29086.6	28549.2	27755.7	26810.0	26238.0	24803.2	23458.5	21050.4	20674.4	15491.4
37.5°	30438.3	30353.0	29744.0	29003.6	28189.4	27944.8	26498.6	24708.6	22427.4	22016.8	16414.1
40°	30895.1	30795.8	30396.9	29864.0	29211.2	29190.4	28369.3	26125.0	23984.4	23578.4	17454.3
42.5°	30618.3	30491.4	30327.6	30182.3	29981.7	30073.9	30127.0	27785.7	25695.9	25241.5	18658.3
45°	29596.4	29405.0	29520.3	29836.4	30272.2	30793.6	31713.9	29624.1	27612.7	27232.1	20072.3
47.5°	28025.6	27852.6	28212.5	28888.3	30073.9	31393.2	33215.5	31653.9	29900.9	29522.6	22086.1
50°	25815.9	25866.6	26381.0	27610.4	29402.6	31670.1	35065.4	34341.1	33227.1	32874.1	24833.2
52.5°	22189.8	22199.1	23647.6	25665.9	28212.5	31527.1	36091.9	37775.7	37768.9	37342.1	27449.0
55°	18822.1	19027.4	20173.8	22856.5	26284.1	30955.0	36809.3	39445.7	40751.3	40250.8	29887.0
57.5°	15532.9	15652.8	16739.3	19433.4	23532.3	29430.4	37545.1	41450.2	44188.1	43872.2	32918.0
60°	11791.5	11976.1	13099.3	15588.2	20012.3	26724.7	37614.3	43542.3	48296.3	47978.0	36301.9
62.5°	7653.4	7971.7	9023.5	11355.6	15754.3	22833.3	36008.9	44910.2	52189.9	52076.9	39305.1
65°	4398.8	4638.6	5369.8	7169.0	10868.8	17947.9	32191.4	44384.2	54586.5	54521.9	40428.4
66°	3593.7	3743.7	4304.2	5602.8	8968.2	15761.2	29972.4	43274.8	54824.1	54826.4	40299.2
67.5°	2874.1	2941.0	3192.4	4011.2	6617.7	12492.7	26007.3	40827.4	54528.8	54609.6	39466.5
70°	2378.1	2412.7	2491.1	2689.6	3612.2	7533.4	18460.0	34468.0	51564.8	51627.1	36216.4
72.5°	2133.6	2154.4	2184.4	2212.1	2548.8	4209.6	11274.8	27573.5	45210.1	45290.7	31264.1
75°	1933.0	1944.5	1939.9	1942.2	2138.3	2682.6	5826.6	20586.7	36555.5	36394.1	23949.8
77.5°	1697.7	1709.2	1686.2	1690.8	1891.4	2062.2	2899.4	14411.9	24669.4	23530.0	13493.8
80°	1434.8	1444.0	1434.8	1450.9	1647.0	1557.0	1686.2	8107.8	10908.0	10317.5	4797.8
82.5°	1084.1	1123.4	1151.0	1215.6	1356.3	1107.1	1127.9	3157.8	3321.5	3162.4	1471.7
85°	475.2	579.0	867.3	929.6	1019.6	664.3	740.4	1287.1	1351.7	1310.1	535.2
87.5°	124.5	136.1	429.1	539.7	565.2	299.9	385.2	585.9	618.2	585.9	177.6
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°	6204.9	6204.9	6204.9	6204.9	6204.9	6204.9	6204.9	6204.9	6204.9	6204.9	6204.9
2.5°	6274.1	6161.0	5958.0	5778.1	5642.0	5549.8	5457.5	5411.4	5383.7	5356.0	5360.6
5°	6474.7	6246.4	5898.1	5651.2	5512.9	5425.2	5379.0	5360.6	5349.0	5321.4	5321.4
7.5°	6776.9	6453.9	5974.2	5720.4	5612.0	5545.1	5517.5	5508.2	5494.4	5462.1	5466.7
10°	7157.5	6705.4	6133.3	5886.5	5787.3	5713.6	5674.3	5660.5	5635.1	5598.2	5602.8
12.5°	7605.0	7016.8	6343.3	6084.9	5965.0	5865.8	5801.2	5762.0	5718.1	5669.7	5672.0
15°	8093.9	7355.9	6569.3	6262.5	6098.7	5960.3	5856.5	5789.7	5720.4	5660.5	5658.2
17.5°	8589.9	7683.4	6742.3	6359.4	6138.0	5955.8	5815.0	5711.2	5625.9	5552.0	5545.1
20°	9125.1	7978.6	6839.1	6350.2	6064.1	5847.3	5660.5	5531.3	5436.7	5362.9	5351.4
22.5°	9669.4	8255.5	6855.4	6255.6	5900.3	5635.1	5439.0	5296.0	5199.2	5123.0	5095.4
25°	10167.7	8470.0	6788.5	6073.4	5672.0	5386.0	5194.5	5049.3	4970.8	4880.8	4853.2
27.5°	10622.1	8619.9	6654.6	5840.4	5416.0	5134.6	4954.6	4830.1	4744.7	4675.5	4652.5
30°	11030.4	8700.7	6435.5	5563.6	5153.0	4897.0	4744.7	4659.4	4585.5	4498.0	4481.8
32.5°	11417.8	8700.7	6154.1	5261.5	4892.4	4687.1	4597.1	4544.1	4461.0	4375.7	4352.7
35°	11805.3	8647.6	5822.0	4945.4	4652.5	4537.2	4532.5	4470.2	4343.4	4228.0	4198.1
37.5°	12213.6	8539.1	5448.2	4650.2	4456.4	4470.2	4509.4	4371.1	4191.1	4027.4	3983.6
40°	12674.9	8389.2	5060.7	4394.1	4292.7	4440.3	4447.2	4228.0	3877.5	3727.5	3688.3
42.5°	13217.0	8239.3	4701.0	4168.1	4163.5	4350.3	4329.6	3918.9	3709.0	3632.9	3612.2
45°	13929.8	8153.9	4359.5	3953.6	4062.0	4205.0	4128.9	3748.3	3660.6	3616.8	3598.4
47.5°	15053.1	8197.8	4045.8	3782.9	3960.5	4059.7	3755.2	3679.1	3616.8	3563.7	3545.3
50°	16460.2	8172.4	3792.1	3665.3	3845.1	3907.5	3586.8	3589.2	3556.8	3496.8	3469.2
52.5°	17518.9	7974.0	3628.4	3598.4	3743.7	3637.6	3480.7	3501.5	3485.3	3397.6	3367.7
55°	18540.7	7803.4	3545.3	3573.0	3669.8	3300.8	3356.2	3406.9	3390.7	3305.4	3291.5
57.5°	19811.7	7771.1	3494.5	3579.9	3607.6	3132.4	3236.2	3303.1	3291.5	3254.6	3247.7
60°	21368.7	7780.3	3448.4	3591.4	3538.4	3007.9	3123.2	3208.5	3215.4	3208.5	3203.9
62.5°	22224.4	7528.9	3333.1	3559.2	3416.2	2899.4	3005.5	3130.1	3132.4	3146.2	3144.0
65°	21497.8	6776.9	3118.5	3446.1	3210.9	2809.5	2904.0	3040.1	3005.5	3067.9	3067.9
66°	20792.0	6343.3	3012.4	3372.3	3123.2	2774.9	2871.8	2994.0	2950.2	3035.5	3035.5
67.5°	19350.4	5612.0	2821.0	3215.4	2998.7	2726.5	2834.9	2917.9	2857.9	2984.8	2975.5
70°	16716.2	4341.1	2435.8	2860.2	2793.3	2654.9	2784.1	2765.7	2678.0	2871.8	2834.9
72.5°	14093.6	3298.5	1956.1	2394.3	2481.9	2565.0	2712.6	2571.9	2461.1	2597.2	2516.6
75°	10935.7	2479.6	1545.4	1861.4	2096.7	2424.3	2627.2	2348.2	2189.0	2175.2	2131.3
77.5°	5911.9	1702.3	1224.8	1420.9	1665.4	2248.9	2569.6	2108.3	1868.4	1813.0	1778.4
80°	2341.3	1107.1	890.4	1077.2	1164.8	1995.3	2431.2	1829.2	1540.9	1485.4	1432.4
82.5°	966.5	655.1	574.4	721.9	758.8	1706.9	2182.1	1499.3	1190.2	1647.0	1748.4
85°	415.2	359.9	341.4	373.6	429.1	1197.1	1736.9	1144.1	1284.8	1146.4	911.1
87.5°	124.5	152.2	145.3	143.0	156.9	286.0	924.9	636.6	943.4	357.5	267.5
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)