

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: STREETWORKS

Report Number: P459387

Luminaire Tested: **GLAN-SA8C-735-U-AFL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459387
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-24)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA8C-735-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 53403 lumens
Efficiency: N/A
Efficacy: 124.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

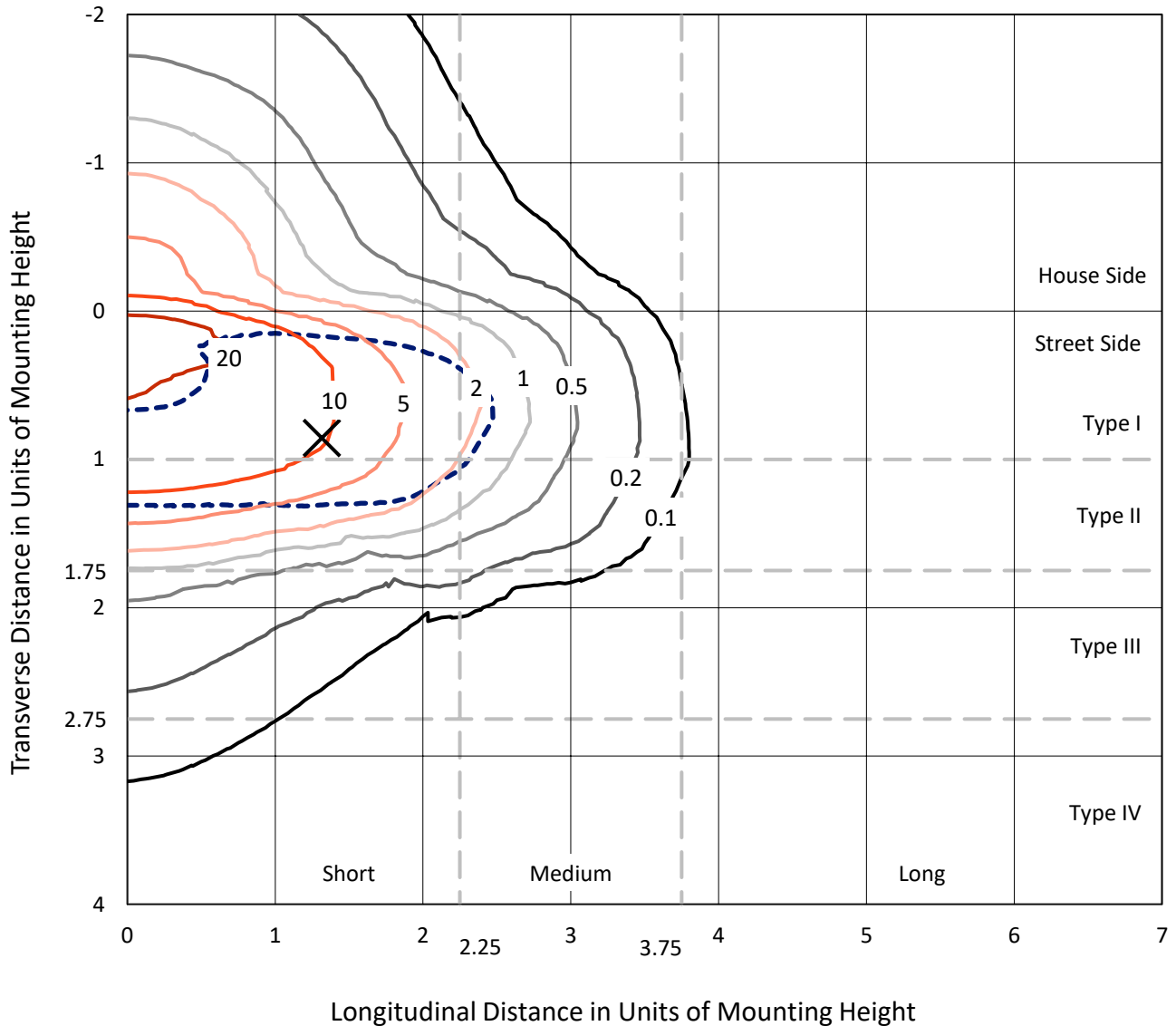
Input Watts (W): 429
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

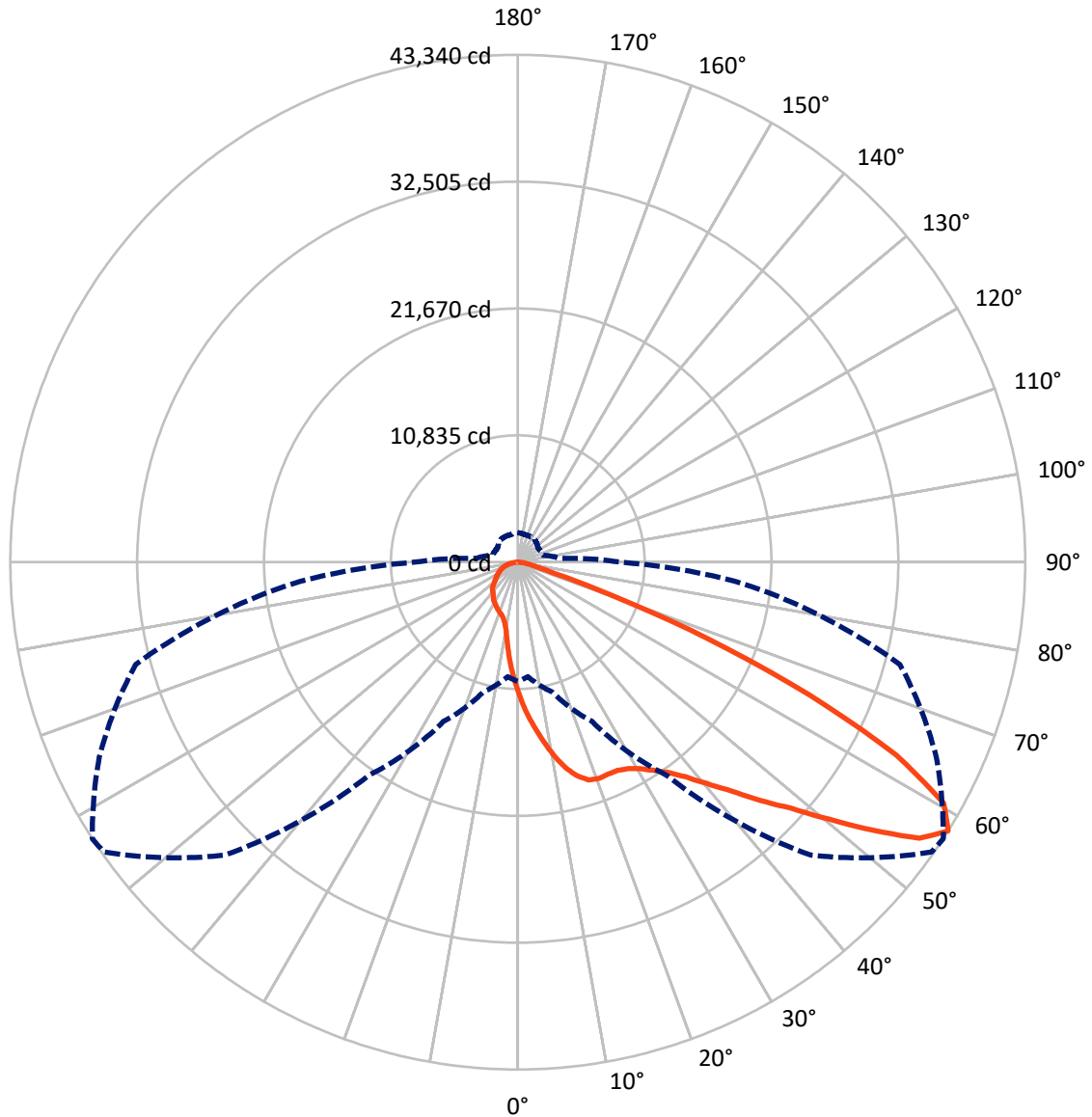
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 27.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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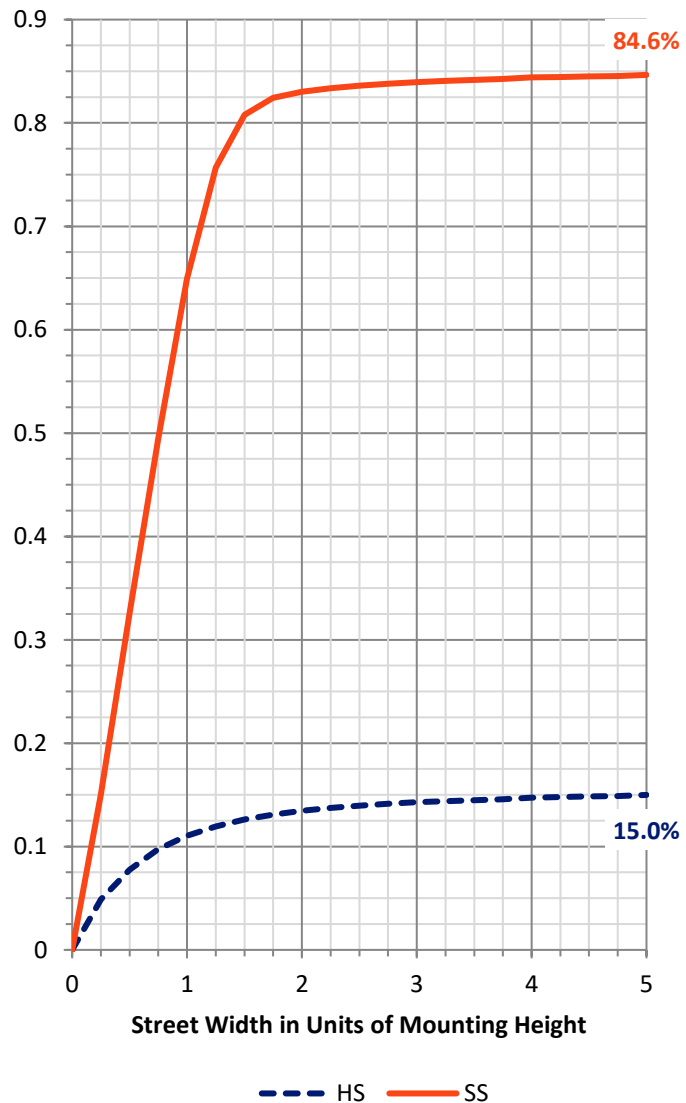
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8121.1	0.0	8121.1
	% Fixture	15.2	0.0	15.2
Street Side	Lumens	45281.9	0.0	45281.9
	% Fixture	84.8	0.0	84.8
Total	Lumens	53403.0	0.0	53403.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1078.3	2.0
10°-20°	3177.8	6.0
20°-30°	5276.8	9.9
30°-40°	7948.3	14.9
40°-50°	11933.7	22.3
50°-60°	13376.2	25.0
60°-70°	7828.4	14.7
70°-80°	2315.6	4.3
80°-90°	468.0	0.9
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°	53403.0	100.0
0°-180°	53403.0	100.0



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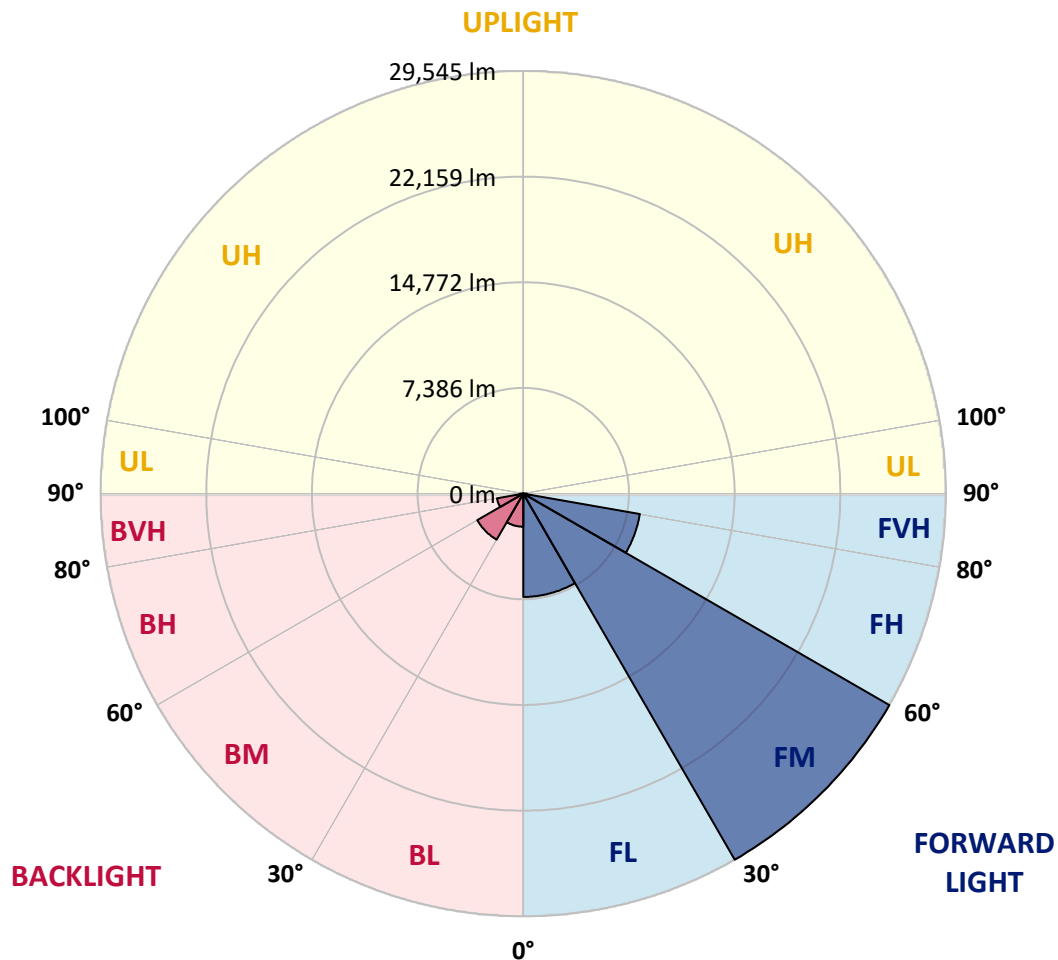
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	7218.9	13.5			
FM	(30°-60°)	29544.9	55.3			
FH	(60°-80°)	8275.3	15.5			G4/12000
FVH	(80°-90°)	242.8	0.5			G3/500
BL	(0°-30°)	2314.0	4.3	B3/2500		
BM	(30°-60°)	3713.3	7.0	B3/5000		
BH	(60°-80°)	1868.6	3.5	B3/2500		G3/2500
BVH	(80°-90°)	225.2	0.4			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	11219.4	11219.4	11219.4	11219.4	11219.4	11219.4	11219.4	11219.4	11219.4	11219.4	11219.4
2.5°	13940.9	13788.9	13669.0	13563.8	13426.4	13055.1	12683.9	12678.1	12382.8	11926.8	11459.1
5°	16212.2	16007.6	16033.9	15706.5	15379.1	14841.2	14054.9	14014.0	13385.5	12531.9	11663.7
7.5°	17691.4	17694.3	17612.5	17425.4	17071.7	16460.7	15569.1	15367.4	14493.4	13198.4	11897.5
10°	17615.4	17694.3	17831.7	17992.5	18100.6	17799.6	16986.9	16741.3	15604.2	14005.2	12157.7
12.5°	16603.9	16726.7	16922.6	17326.0	17977.9	18474.8	18197.1	17998.3	16890.4	14809.1	12444.2
15°	15972.5	16045.6	16153.8	16425.6	17127.2	18317.0	19036.1	18930.8	18103.6	15718.2	12765.7
17.5°	15779.6	15852.7	15887.8	16054.4	16554.3	17773.2	19366.4	19553.5	19179.3	16554.3	13090.2
20°	15972.5	16007.6	16007.6	16107.0	16498.7	17454.6	19351.8	19728.9	20062.1	17556.9	13394.2
22.5°	16478.3	16492.9	16472.4	16507.5	16799.8	17542.3	19214.4	19682.1	20775.4	18407.6	13631.0
25°	17299.7	17323.1	17188.6	17106.7	17320.1	17928.2	19290.4	19720.1	21333.7	19220.2	13788.9
27.5°	18232.2	18261.4	18097.7	17907.7	18007.1	18404.7	19588.6	19974.4	21751.8	20021.2	13888.3
30°	19375.2	19386.9	19112.1	18884.1	18819.8	19115.0	20097.2	20456.8	22272.1	20965.4	14037.4
32.5°	20544.5	20632.2	20278.5	19956.9	19848.7	19939.4	20848.5	21196.3	22891.8	21979.8	14277.1
35°	22134.7	22149.3	21725.4	21333.7	20977.1	21094.0	21810.2	22061.6	23748.3	23152.0	14616.2
37.5°	24119.6	24254.0	23669.4	22938.6	22500.1	22330.6	22973.7	23248.5	24949.8	24590.2	15127.7
40°	26323.7	26373.4	25873.5	25417.5	24616.5	24125.4	24569.8	24867.9	26431.9	26306.2	15721.1
42.5°	27709.3	27817.5	27855.5	27808.7	27206.5	26382.2	26551.7	26692.0	28185.8	27916.9	16329.2
45°	28177.0	28337.8	28881.5	30033.3	30097.6	29284.9	28890.3	29024.8	30097.6	29542.2	16910.9
47.5°	27402.4	27677.1	28679.8	31041.8	32810.3	32871.7	31682.0	31386.7	31839.8	30889.8	17331.8
50°	25400.0	25458.4	26993.1	30413.3	34081.9	36300.7	35070.0	34520.4	33494.4	31886.6	17621.2
52.5°	22301.3	22368.6	23654.8	27493.0	33298.5	38697.7	39033.9	38051.7	35175.2	32661.3	17811.2
55°	16554.3	16943.0	18357.9	22067.5	29586.0	38472.6	42185.1	41626.8	37206.9	33275.1	18109.4
57.5°	10178.7	9822.1	11500.0	15013.7	22251.6	35379.9	43158.6	43339.8	39443.2	33789.6	18609.3
60°	4683.0	4753.2	5446.0	7743.6	13563.8	27677.1	40650.4	41796.4	40679.7	33772.1	18735.0
62.5°	3227.2	3162.9	2987.5	3399.7	6185.6	17504.3	34336.3	36277.3	38200.8	32722.6	18235.1
65°	2885.2	2820.9	2481.8	2367.8	2841.4	7629.6	24961.5	27411.1	32164.3	30074.2	16989.8
67.5°	2695.2	2607.5	2256.7	2034.6	2028.7	3037.2	14718.5	17668.0	23856.5	25426.3	14721.4
70°	2496.4	2426.3	2078.4	1832.9	1727.6	1908.9	6469.1	8468.6	15490.2	18322.8	11467.8
72.5°	2297.7	2215.8	1903.0	1639.9	1502.5	1429.5	2478.9	3224.3	8752.2	10985.5	7030.4
75°	2008.3	1967.3	1701.3	1485.0	1335.9	1154.7	1572.7	1794.9	4186.1	5045.5	3528.3
77.5°	1756.9	1713.0	1511.3	1297.9	1189.8	938.4	1116.7	1219.0	1765.6	2046.3	1593.2
80°	1286.2	1330.1	1274.5	1145.9	1061.1	736.7	751.3	836.0	1049.4	1160.5	973.4
82.5°	815.6	897.4	982.2	882.8	803.9	581.7	520.3	552.5	716.2	760.0	432.6
85°	342.0	347.9	570.0	537.9	458.9	344.9	312.8	330.3	382.9	400.5	201.7
87.5°	131.5	128.6	201.7	187.1	143.2	99.4	99.4	111.1	152.0	140.3	64.3
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°	11219.4	11219.4	11219.4	11219.4	11219.4	11219.4	11219.4	11219.4	11219.4	11219.4	11219.4
2.5°	11257.4	11049.8	10637.6	10126.1	9751.9	9331.0	8959.7	8693.7	8594.3	8547.5	8459.8
5°	11248.6	10839.3	9985.8	9091.2	8372.1	7635.5	7012.8	6609.4	6574.3	6305.4	6279.1
7.5°	11251.5	10625.9	9266.6	7951.2	6855.0	6100.8	5586.3	5451.8	5291.0	5250.1	5270.6
10°	11260.3	10354.1	8494.9	6822.8	5761.7	5267.7	5074.7	5022.1	5028.0	5045.5	5048.4
12.5°	11272.0	10091.0	7693.9	5966.3	5147.8	4943.2	4922.7	4969.5	5019.2	5057.2	5066.0
15°	11286.6	9789.9	6913.4	5276.4	4840.9	4823.3	4890.6	4969.5	5039.6	5095.2	5104.0
17.5°	11269.1	9439.1	6258.6	4852.6	4671.3	4756.1	4867.2	4966.6	5030.9	5083.5	5089.3
20°	11228.1	9047.4	5627.2	4554.4	4566.1	4703.5	4823.3	4916.9	4987.0	5013.3	5033.8
22.5°	11070.3	8579.7	5077.7	4323.5	4440.4	4630.4	4773.6	4829.2	4750.2	4694.7	4709.3
25°	10801.3	7971.6	4566.1	4136.4	4326.4	4528.1	4674.2	4539.8	4475.5	4452.1	4463.8
27.5°	10465.2	7305.2	4180.2	3940.5	4180.2	4414.1	4373.2	4349.8	4320.5	4282.5	4291.3
30°	10102.7	6653.3	3852.8	3788.5	4022.4	4156.8	4174.4	4212.4	4180.2	4121.8	4145.1
32.5°	9766.5	6039.4	3604.3	3659.9	3911.3	3890.8	4022.4	4066.2	3917.1	3721.3	3730.0
35°	9480.0	5469.4	3417.3	3534.2	3721.3	3730.0	3861.6	3709.6	3548.8	3455.3	3461.1
37.5°	9263.7	5025.0	3294.5	3426.0	3478.6	3589.7	3519.6	3440.6	3420.2	3355.9	3358.8
40°	9135.1	4636.2	3215.6	3341.3	3332.5	3408.5	3183.4	3262.3	3291.6	3271.1	3274.0
42.5°	9006.5	4361.5	3133.7	3224.3	3221.4	3072.3	3022.6	3089.9	3165.9	3174.6	3168.8
45°	8904.2	4148.1	3048.9	3046.0	3104.5	2870.6	2856.0	2896.9	3005.1	3057.7	3054.8
47.5°	8790.2	3969.7	2920.3	2838.5	2856.0	2744.9	2721.5	2739.1	2870.6	2955.4	2978.8
50°	8646.9	3791.4	2759.5	2648.4	2575.4	2628.0	2633.8	2636.8	2768.3	2864.8	2885.2
52.5°	8532.9	3657.0	2575.4	2493.5	2405.8	2522.7	2566.6	2572.4	2651.4	2730.3	2744.9
55°	8600.1	3581.0	2394.1	2335.7	2256.7	2414.6	2499.4	2511.1	2528.6	2587.1	2595.8
57.5°	8801.8	3598.5	2248.0	2172.0	2113.5	2286.0	2429.2	2438.0	2426.3	2496.4	2508.1
60°	8863.2	3589.7	2139.8	1990.7	1955.6	2148.6	2326.9	2344.4	2341.5	2443.8	2464.3
62.5°	8606.0	3478.6	2031.6	1838.7	1815.3	2008.3	2183.7	2253.8	2268.4	2414.6	2440.9
65°	8000.9	3250.6	1888.4	1677.9	1677.9	1859.2	2046.3	2142.7	2183.7	2379.5	2408.7
67.5°	7202.8	2981.7	1742.2	1540.5	1534.7	1715.9	1900.1	1999.5	2063.8	2329.8	2347.4
70°	5978.0	2619.2	1561.0	1391.5	1391.5	1555.2	1721.8	1841.6	1935.2	2236.3	2236.3
72.5°	4095.4	2177.8	1341.8	1221.9	1224.8	1376.8	1546.4	1680.9	1791.9	2049.2	2055.0
75°	2590.0	1701.3	1102.1	1040.7	1052.4	1195.6	1371.0	1511.3	1733.5	2025.8	2034.6
77.5°	1376.8	1195.6	877.0	862.4	877.0	1008.5	1204.4	1397.3	1739.3	1756.9	1727.6
80°	891.6	847.7	692.8	663.6	669.4	812.7	1072.8	1327.1	1397.3	1414.8	1350.5
82.5°	485.3	537.9	491.1	461.9	461.9	634.3	915.0	1055.3	1002.7	833.1	795.1
85°	207.5	251.4	254.3	222.2	213.4	391.7	613.9	575.9	535.0	511.6	505.7
87.5°	58.5	81.9	81.9	61.4	46.8	108.2	122.8	35.1	0.0	2.9	5.8
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)