

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: P652765

Luminaire Tested: **GLAN-SA3C-840-U-AFL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P652765
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-SA3C-840-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17823.3 lumens
Efficiency: N/A
Efficacy: 111.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

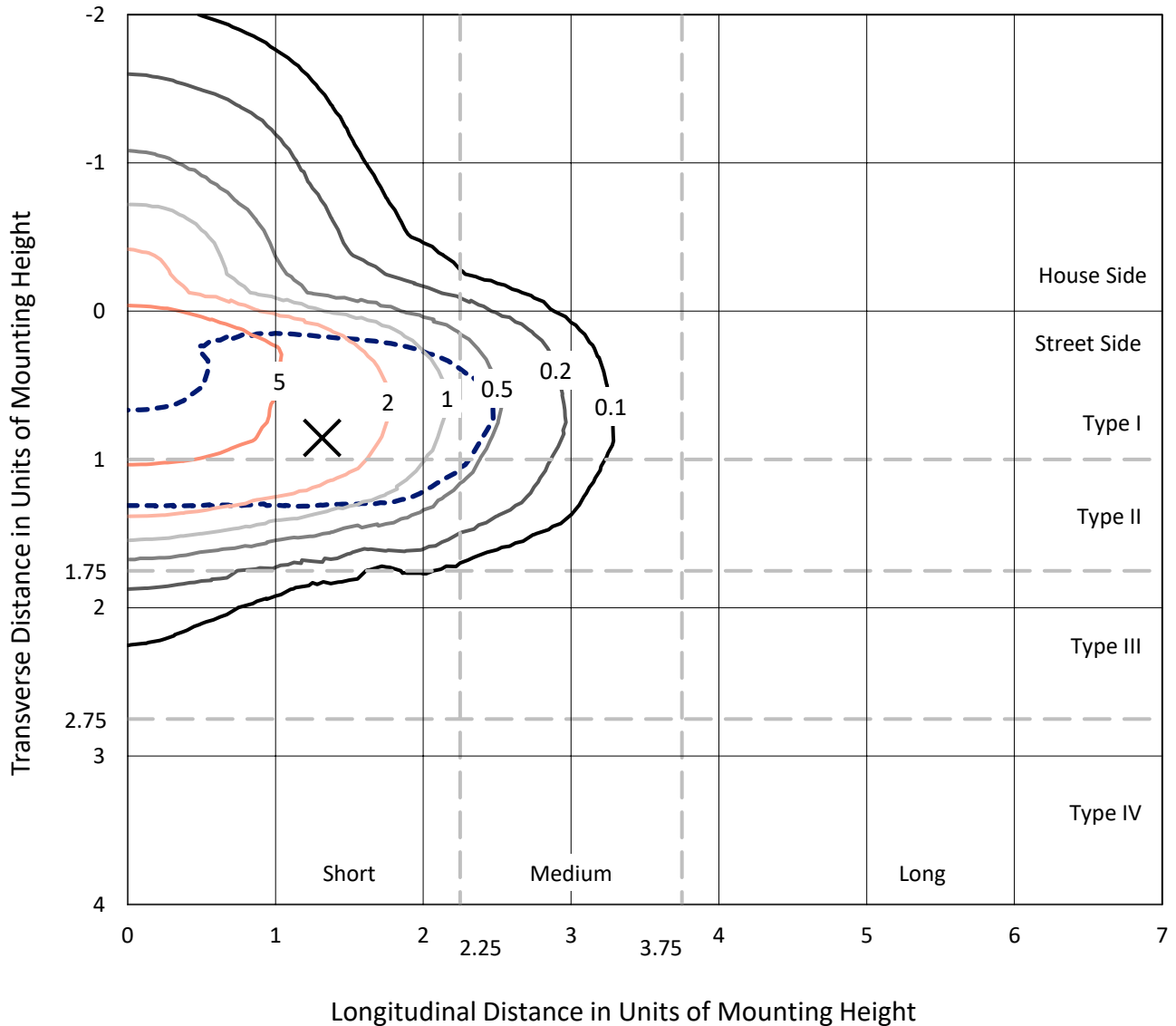
Input Watts (W): 160
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

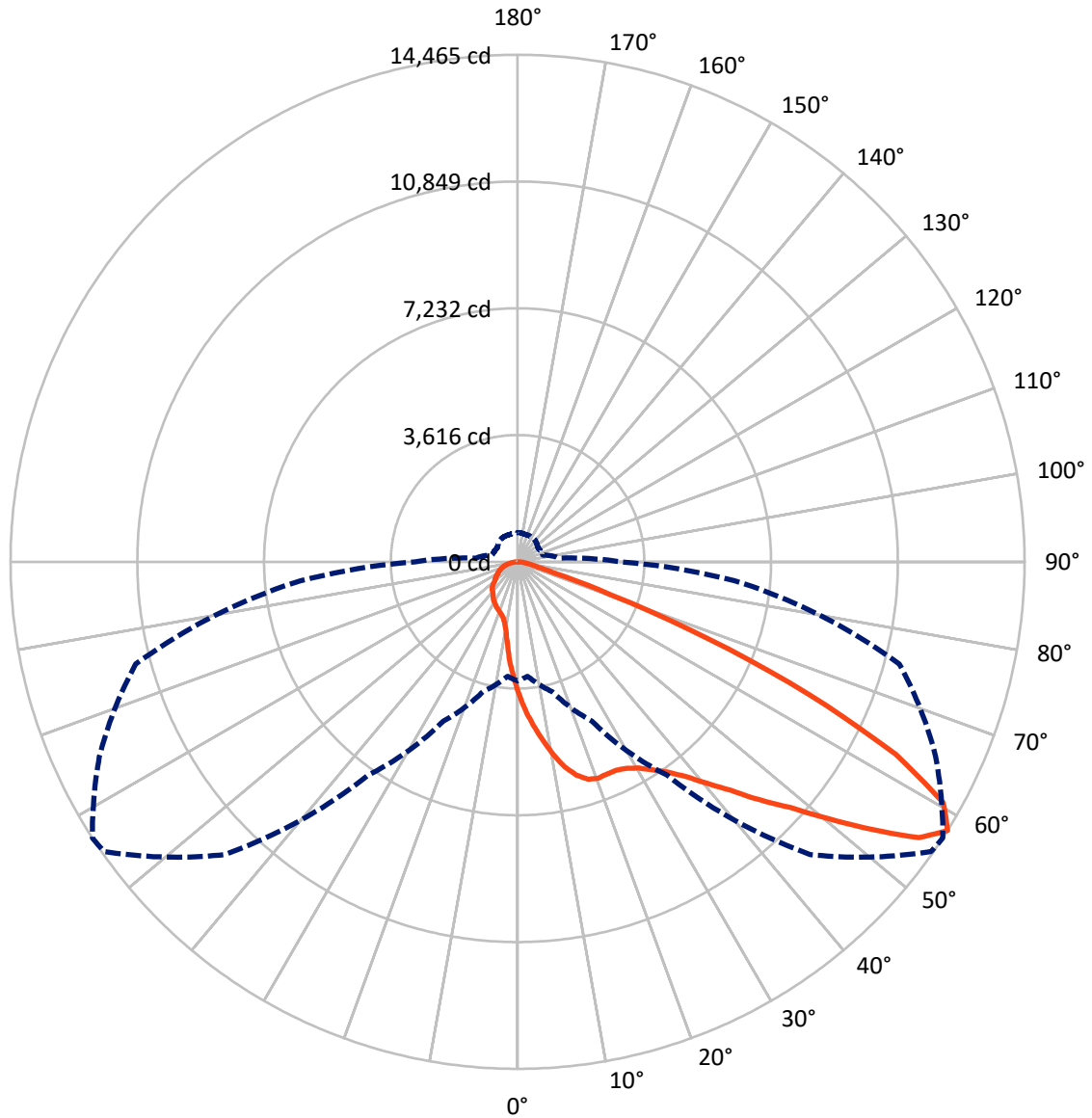
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.1 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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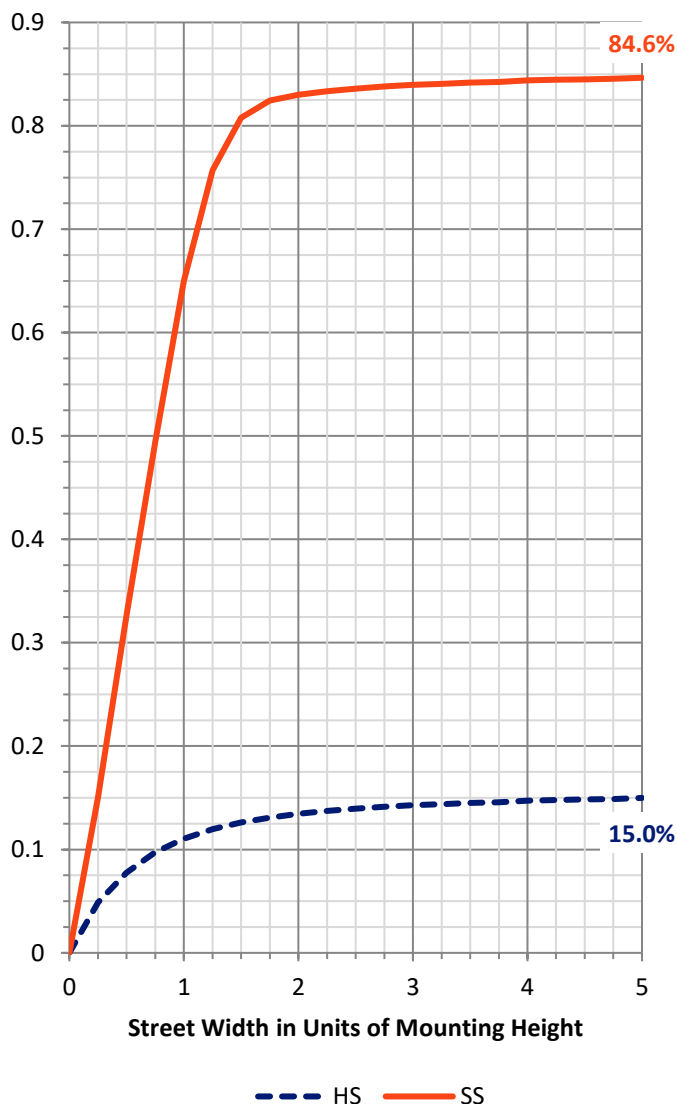
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2710.4	0.0	2710.4
	% Fixture	15.2	0.0	15.2
Street Side	Lumens	15112.9	0.0	15112.9
	% Fixture	84.8	0.0	84.8
Total	Lumens	17823.3	0.0	17823.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	359.9	2.0
10°-20°	1060.6	6.0
20°-30°	1761.1	9.9
30°-40°	2652.8	14.9
40°-50°	3982.9	22.3
50°-60°	4464.3	25.0
60°-70°	2612.7	14.7
70°-80°	772.8	4.3
80°-90°	156.2	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°	17823.3	100.0
0°-180°	17823.3	100.0

Coefficient of Utilization



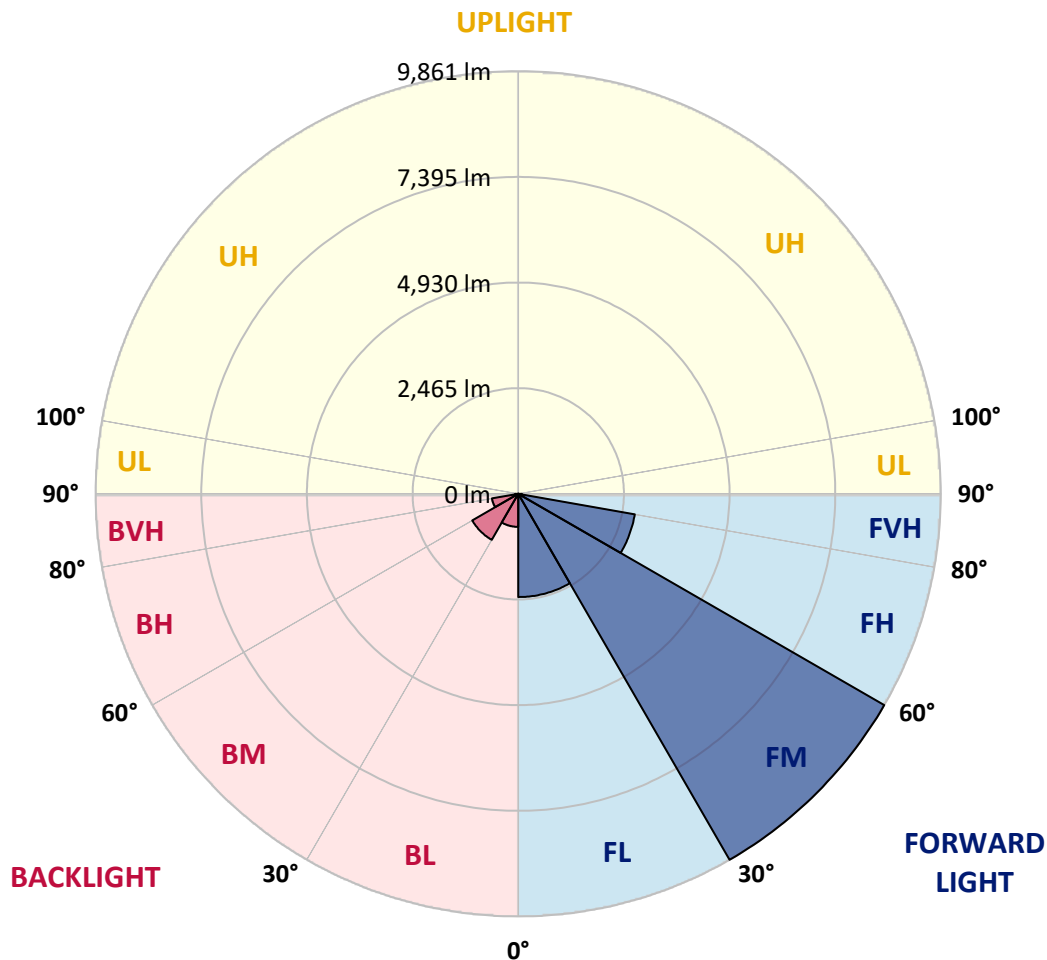
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2409.3	13.5			
FM (30°-60°)	9860.6	55.3			
FH (60°-80°)	2761.9	15.5			G2/5000
FVH (80°-90°)	81.0	0.5			G1/100
BL (0°-30°)	772.3	4.3	B2/1000		
BM (30°-60°)	1239.3	7.0	B2/2500		
BH (60°-80°)	623.7	3.5	B2/1000		G2/1000
BVH (80°-90°)	75.2	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	3744.5	3744.5	3744.5	3744.5	3744.5	3744.5	3744.5	3744.5	3744.5	3744.5	3744.5
2.5°	4652.7	4602.0	4562.1	4526.9	4481.1	4357.1	4233.3	4231.3	4132.8	3980.5	3824.4
5°	5410.8	5342.5	5351.4	5242.0	5132.8	4953.3	4690.8	4677.1	4467.4	4182.5	3892.7
7.5°	5904.5	5905.5	5878.2	5815.8	5697.7	5493.7	5196.2	5128.9	4837.2	4405.0	3970.8
10°	5879.2	5905.5	5951.3	6005.0	6041.1	5940.7	5669.4	5587.4	5207.9	4674.3	4057.7
12.5°	5541.6	5582.6	5647.9	5782.5	6000.1	6166.0	6073.3	6006.9	5637.2	4942.6	4153.3
15°	5330.8	5355.2	5391.3	5482.1	5716.2	6113.3	6353.3	6318.2	6042.1	5246.0	4260.6
17.5°	5266.4	5290.8	5302.6	5358.2	5525.0	5931.8	6463.6	6526.0	6401.1	5525.0	4368.9
20°	5330.8	5342.5	5342.5	5375.8	5506.4	5825.5	6458.7	6584.5	6695.8	5859.7	4470.3
22.5°	5499.6	5504.5	5497.7	5509.4	5606.9	5854.8	6412.8	6569.0	6933.8	6143.6	4549.4
25°	5773.8	5781.6	5736.7	5709.4	5780.6	5983.5	6438.2	6581.6	7120.2	6414.8	4602.0
27.5°	6085.1	6094.8	6040.1	5976.7	6009.9	6142.6	6537.7	6666.5	7259.7	6682.1	4635.3
30°	6466.4	6470.4	6378.6	6302.5	6281.1	6379.7	6707.5	6827.5	7433.3	6997.2	4685.0
32.5°	6856.8	6886.0	6767.9	6660.6	6624.6	6654.7	6958.2	7074.3	7640.1	7335.8	4765.0
35°	7387.5	7392.4	7250.9	7120.2	7001.2	7040.2	7279.2	7363.1	7926.0	7727.0	4878.1
37.5°	8050.0	8094.8	7899.7	7655.8	7509.5	7452.9	7667.5	7759.2	8327.0	8207.0	5048.9
40°	8785.6	8802.2	8635.3	8483.1	8215.8	8051.9	8200.2	8299.7	8821.7	8779.7	5246.9
42.5°	9248.0	9284.1	9296.8	9281.2	9080.2	8805.1	8861.7	8908.5	9407.0	9317.3	5449.8
45°	9404.1	9457.8	9639.2	10023.6	10045.1	9773.8	9642.1	9687.1	10045.1	9859.7	5644.0
47.5°	9145.5	9237.3	9571.9	10360.2	10950.5	10971.0	10573.9	10475.3	10626.5	10309.5	5784.5
50°	8477.3	8496.8	9009.0	10150.4	11374.9	12115.4	11704.6	11521.2	11178.8	10642.2	5881.1
52.5°	7443.1	7465.6	7894.8	9175.8	11113.4	12915.4	13027.6	12699.8	11739.8	10900.7	5944.5
55°	5525.0	5654.8	6126.9	7365.1	9874.3	12840.3	14079.3	13893.0	12417.9	11105.6	6044.0
57.5°	3397.1	3278.1	3838.2	5010.8	7426.5	11808.1	14404.2	14464.7	13164.2	11277.3	6210.9
60°	1563.0	1586.4	1817.6	2584.5	4526.9	9237.3	13567.1	13949.6	13576.9	11271.5	6252.8
62.5°	1077.1	1055.6	997.1	1134.7	2064.4	5842.1	11459.8	12107.6	12749.6	10921.2	6086.0
65°	962.9	941.5	828.3	790.3	948.3	2546.4	8330.9	9148.5	10734.9	10037.3	5670.4
67.5°	899.5	870.3	753.2	679.0	677.1	1013.7	4912.3	5896.8	7962.2	8486.0	4913.3
70°	833.2	809.8	693.7	611.7	576.6	637.1	2159.1	2826.4	5169.9	6115.2	3827.4
72.5°	766.8	739.5	635.1	547.3	501.5	477.1	827.4	1076.1	2921.0	3666.4	2346.4
75°	670.3	656.6	567.8	495.6	445.9	385.3	524.9	599.0	1397.1	1683.9	1177.6
77.5°	586.3	571.7	504.4	433.2	397.1	313.2	372.7	406.9	589.3	683.0	531.7
80°	429.2	443.9	425.4	382.5	354.1	245.8	250.7	279.0	350.3	387.4	324.9
82.5°	272.2	299.5	327.8	294.6	268.3	194.2	173.7	184.4	239.0	253.6	144.4
85°	114.1	116.1	190.2	179.6	153.1	115.1	104.4	110.3	127.8	133.6	67.3
87.5°	43.9	42.9	67.3	62.4	47.8	33.1	33.1	37.1	50.7	46.8	21.4
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°	3744.5	3744.5	3744.5	3744.5	3744.5	3744.5	3744.5	3744.5	3744.5	3744.5	3744.5
2.5°	3757.2	3687.9	3550.3	3379.6	3254.7	3114.2	2990.3	2901.5	2868.4	2852.8	2823.5
5°	3754.2	3617.6	3332.8	3034.2	2794.2	2548.3	2340.5	2205.9	2194.2	2104.4	2095.7
7.5°	3755.2	3546.4	3092.8	2653.7	2287.9	2036.1	1864.4	1819.6	1765.9	1752.2	1759.0
10°	3758.1	3455.7	2835.2	2277.1	1922.9	1758.1	1693.7	1676.1	1678.0	1683.9	1684.9
12.5°	3762.0	3367.9	2567.8	1991.2	1718.1	1649.8	1643.0	1658.5	1675.2	1687.8	1690.7
15°	3766.9	3267.4	2307.4	1761.1	1615.6	1609.8	1632.2	1658.5	1682.0	1700.5	1703.4
17.5°	3761.0	3150.3	2088.8	1619.5	1559.0	1587.4	1624.4	1657.6	1679.1	1696.6	1698.6
20°	3747.4	3019.6	1878.1	1520.0	1524.0	1569.8	1609.8	1641.0	1664.4	1673.2	1680.1
22.5°	3694.7	2863.4	1694.7	1443.0	1482.0	1545.4	1593.2	1611.8	1585.4	1566.9	1571.7
25°	3604.9	2660.6	1524.0	1380.5	1443.9	1511.3	1560.1	1515.1	1493.7	1485.9	1489.7
27.5°	3492.8	2438.1	1395.1	1315.2	1395.1	1473.2	1459.6	1451.7	1442.0	1429.3	1432.2
30°	3371.8	2220.6	1285.9	1264.4	1342.5	1387.3	1393.2	1405.9	1395.1	1375.6	1383.4
32.5°	3259.5	2015.6	1203.0	1221.5	1305.4	1298.6	1342.5	1357.1	1307.3	1242.0	1244.9
35°	3164.0	1825.4	1140.5	1179.5	1242.0	1244.9	1288.8	1238.0	1184.4	1153.2	1155.1
37.5°	3091.8	1677.1	1099.5	1143.4	1161.0	1198.1	1174.6	1148.3	1141.5	1120.0	1121.0
40°	3048.9	1547.4	1073.2	1115.2	1112.2	1137.6	1062.4	1088.8	1098.6	1091.7	1092.7
42.5°	3005.9	1455.6	1045.9	1076.1	1075.1	1025.3	1008.8	1031.2	1056.6	1059.6	1057.6
45°	2971.8	1384.5	1017.6	1016.6	1036.1	958.1	953.2	966.8	1003.0	1020.5	1019.5
47.5°	2933.7	1324.9	974.6	947.3	953.2	916.1	908.3	914.2	958.1	986.3	994.1
50°	2885.9	1265.4	921.0	883.9	859.5	877.1	879.0	880.0	923.9	956.1	962.9
52.5°	2847.9	1220.5	859.5	832.3	803.0	842.0	856.6	858.6	884.9	911.2	916.1
55°	2870.3	1195.1	799.0	779.5	753.2	805.8	834.2	838.1	843.9	863.5	866.4
57.5°	2937.6	1201.0	750.3	724.9	705.3	763.0	810.7	813.7	809.8	833.2	837.1
60°	2958.1	1198.1	714.2	664.4	652.7	717.1	776.6	782.5	781.5	815.6	822.5
62.5°	2872.3	1161.0	678.1	613.7	605.9	670.3	728.8	752.2	757.1	805.8	814.7
65°	2670.3	1084.9	630.2	560.0	560.0	620.5	683.0	715.1	728.8	794.2	803.9
67.5°	2403.9	995.2	581.5	514.2	512.2	572.7	634.2	667.3	688.8	777.6	783.4
70°	1995.2	874.1	521.0	464.4	464.4	519.1	574.7	614.7	645.9	746.4	746.4
72.5°	1366.9	726.9	447.8	407.8	408.8	459.5	516.1	560.9	598.0	683.9	685.8
75°	864.4	567.8	367.9	347.3	351.2	399.1	457.6	504.4	578.5	676.1	679.0
77.5°	459.5	399.1	292.7	287.8	292.7	336.6	402.0	466.3	580.5	586.3	576.6
80°	297.5	282.9	231.2	221.4	223.5	271.2	358.1	443.0	466.3	472.2	450.8
82.5°	162.0	179.6	163.9	154.2	154.2	211.7	305.4	352.2	334.6	278.0	265.3
85°	69.3	83.9	84.9	74.2	71.2	130.8	204.9	192.2	178.5	170.7	168.8
87.5°	19.5	27.3	27.3	20.5	15.6	36.1	41.0	11.7	0.0	1.0	1.9
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)