

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: P319659

Luminaire Tested: **GAN-SA5D-730-U-SL3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319659
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-22)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA5D-730-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35320 lumens
Efficiency: N/A
Efficacy: 110.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

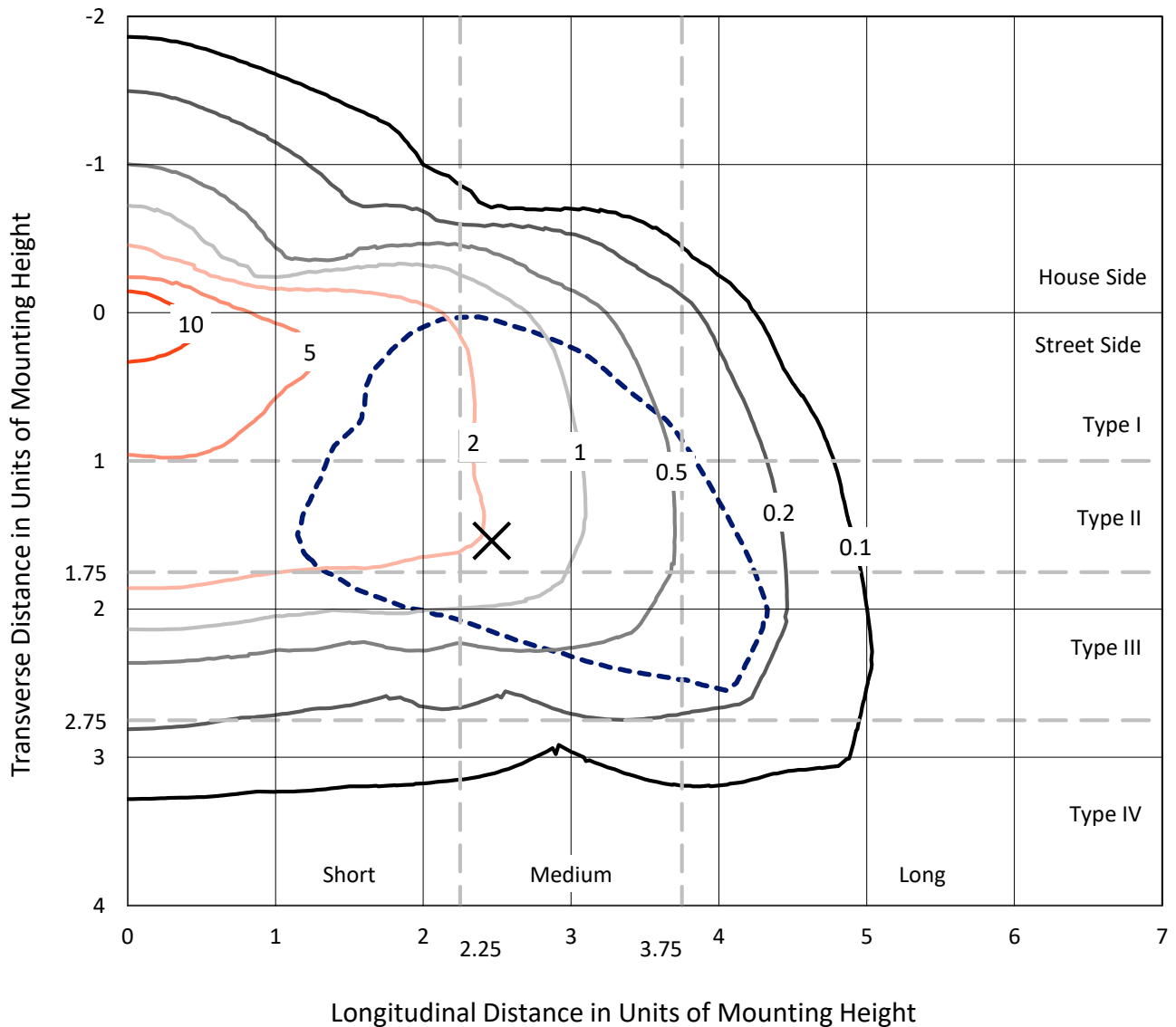
Input Watts (W): 320
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

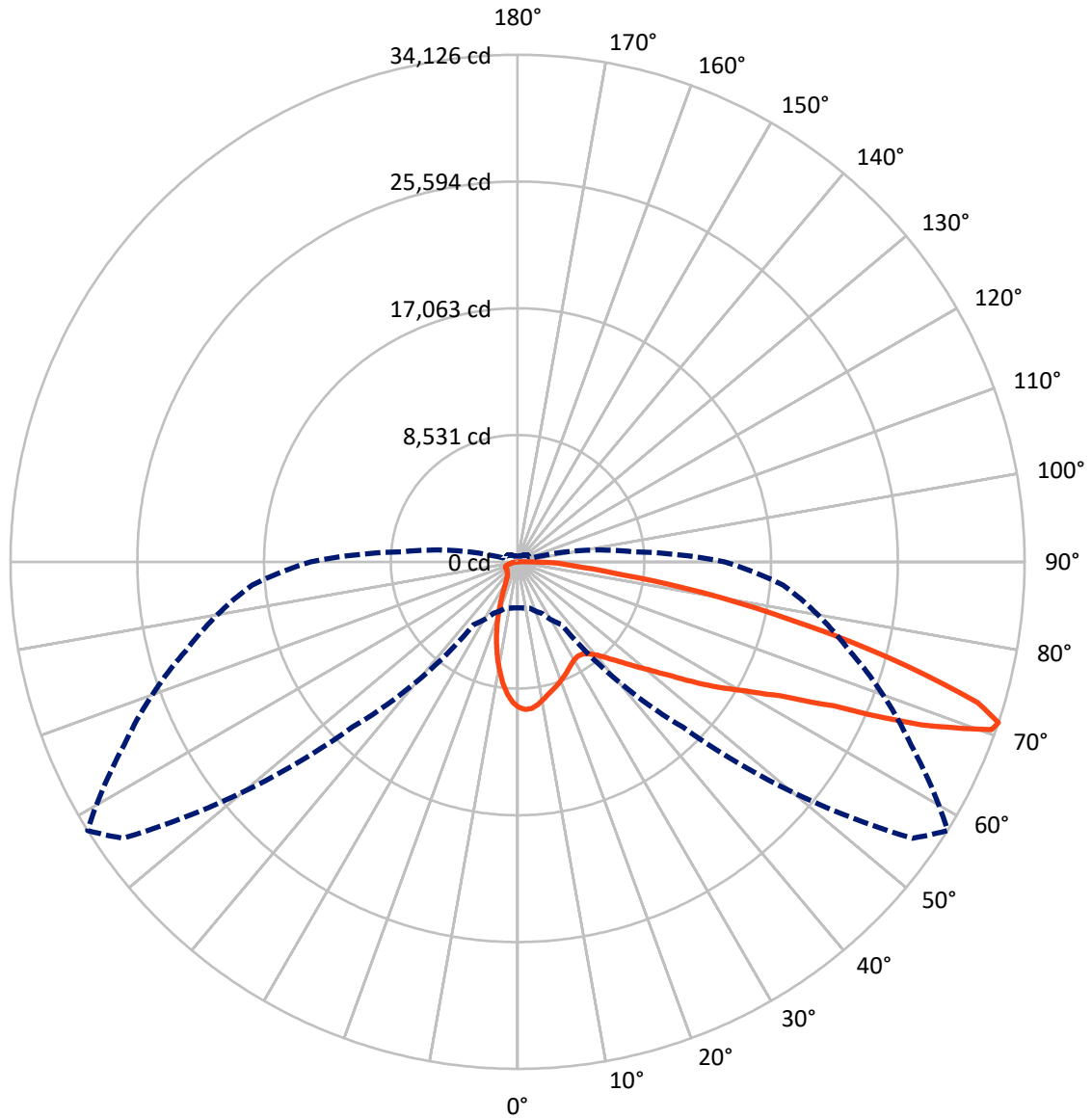
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.7 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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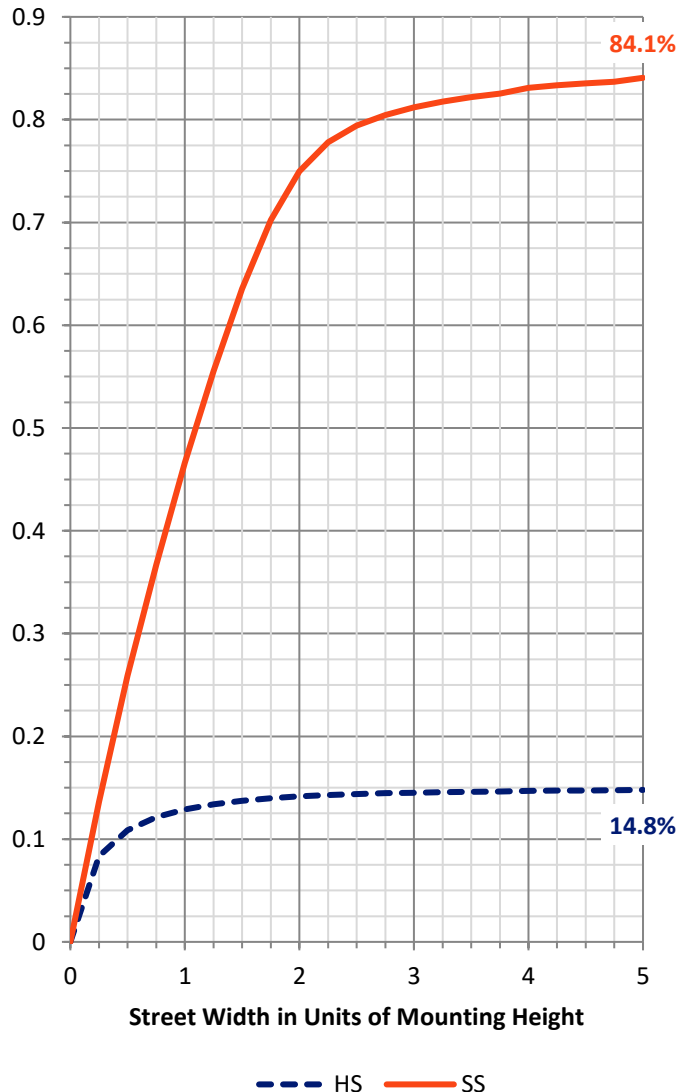
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5280.6	0.0	5280.6
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	30039.4	0.0	30039.4
	% Fixture	85.0	0.0	85.0
Total	Lumens	35320.0	0.0	35320.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	844.2	2.4
10°-20°	1877.3	5.3
20°-30°	2385.8	6.8
30°-40°	3039.0	8.6
40°-50°	4309.5	12.2
50°-60°	6669.1	18.9
60°-70°	9079.2	25.7
70°-80°	6056.9	17.1
80°-90°	1058.9	3.0
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°	35320.0	100.0
0°-180°	35320.0	100.0

Coefficient of Utilization

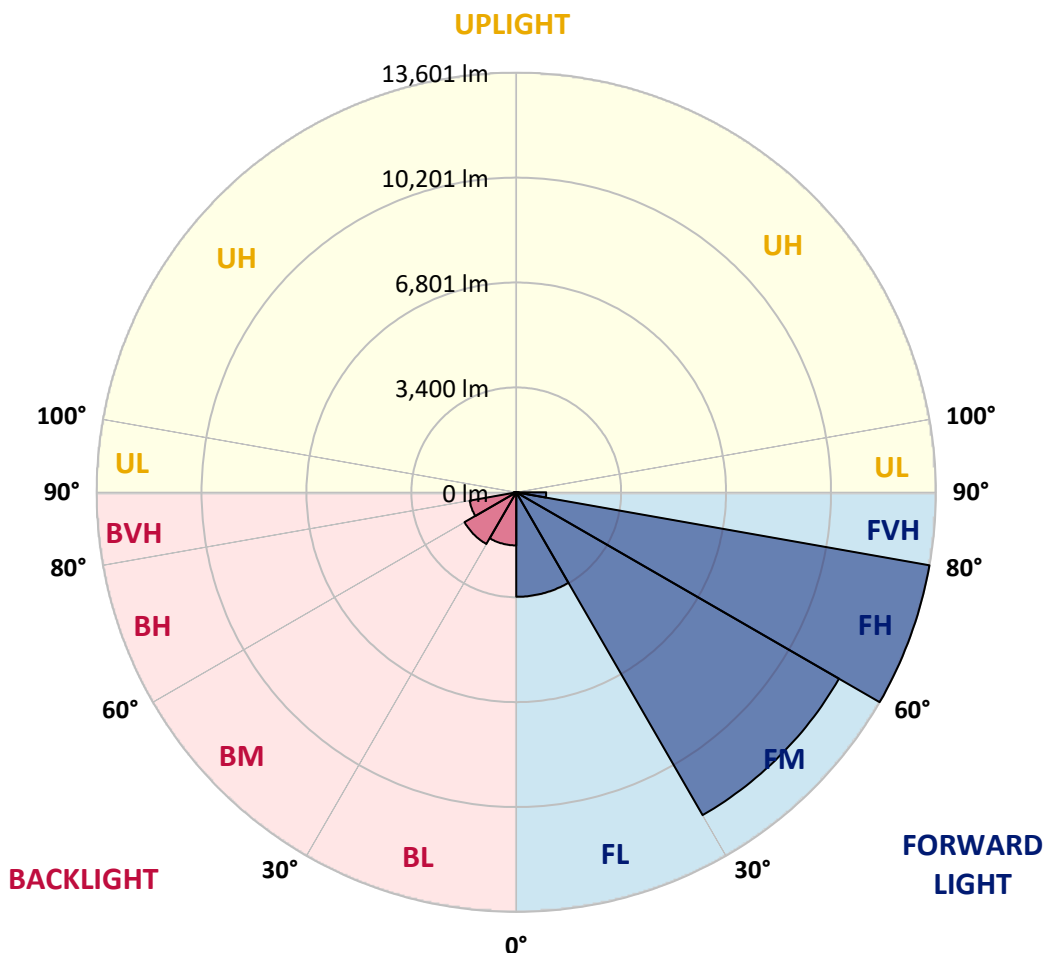


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3386.0	9.6			
FM (30°-60°)	12081.1	34.2			
FH (60°-80°)	13601.3	38.5			G5
FVH (80°-90°)	971.0	2.7			G5
BL (0°-30°)	1721.3	4.9	B3/2500		
BM (30°-60°)	1936.5	5.5	B2/2500		
BH (60°-80°)	1534.8	4.3	B3/2500		G3/2500
BVH (80°-90°)	88.0	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	9786.0	9786.0	9786.0	9786.0	9786.0	9786.0	9786.0	9786.0	9786.0	9786.0	9786.0
2.5°	10045.6	10032.1	10037.0	10027.1	10003.8	9980.4	9945.9	9952.1	9904.1	9832.8	9744.2
5°	9856.1	9851.2	9888.1	9909.0	9926.3	9912.7	9902.9	9915.2	9845.1	9746.6	9592.8
7.5°	9458.7	9404.6	9451.4	9521.5	9587.9	9638.4	9704.8	9713.4	9669.1	9565.8	9364.0
10°	8894.0	8842.3	8911.2	9020.7	9153.6	9274.2	9408.3	9432.9	9441.5	9348.0	9103.2
12.5°	8308.4	8269.0	8337.9	8491.7	8711.9	8897.7	9111.8	9148.7	9225.0	9162.2	8862.0
15°	7784.3	7769.5	7853.2	8004.5	8257.9	8542.1	8851.0	8918.6	9047.8	9026.9	8673.8
17.5°	7331.5	7327.8	7391.8	7550.5	7831.0	8190.3	8591.4	8705.8	8897.7	8922.3	8518.8
20°	6994.4	6987.0	7031.3	7148.2	7437.3	7844.5	8310.8	8468.3	8745.1	8831.3	8358.8
22.5°	6813.5	6812.3	6813.5	6868.9	7105.1	7484.1	8037.7	8229.6	8596.3	8758.7	8181.7
25°	6782.8	6779.1	6752.0	6745.9	6880.0	7182.6	7767.0	7978.7	8454.8	8708.2	8013.1
27.5°	6862.8	6867.7	6832.0	6774.2	6801.2	6984.6	7532.0	7758.4	8341.6	8698.4	7896.2
30°	7028.8	7026.4	6995.6	6935.3	6882.4	6910.7	7364.7	7591.1	8265.3	8741.5	7816.3
32.5°	7212.2	7225.7	7219.5	7186.3	7107.6	6994.4	7314.3	7535.7	8243.2	8844.8	7781.8
35°	7432.4	7447.2	7491.4	7517.3	7425.0	7242.9	7422.5	7614.5	8307.2	9039.2	7837.2
37.5°	7641.5	7679.7	7803.9	7913.4	7834.7	7631.7	7710.4	7847.0	8505.2	9345.5	7986.0
40°	7882.7	7915.9	8118.9	8351.4	8339.1	8128.8	8174.3	8265.3	8854.6	9784.8	8255.5
42.5°	8120.1	8186.6	8480.6	8810.4	8905.1	8719.3	8791.9	8839.9	9346.8	10366.7	8725.5
45°	8436.3	8507.7	8916.2	9313.6	9535.0	9430.4	9546.1	9564.5	9965.6	11159.0	9408.3
47.5°	8914.9	8996.1	9472.3	9889.3	10227.7	10238.8	10429.5	10422.1	10738.3	12065.8	10268.3
50°	9660.5	9777.4	10167.4	10557.4	10968.3	11197.2	11451.9	11416.2	11664.7	13031.6	11258.7
52.5°	10637.4	10691.5	10980.6	11268.5	11779.1	12292.2	12657.6	12625.6	12715.4	14024.5	12383.2
55°	11649.9	11690.5	11809.9	11967.4	12653.9	13490.5	14263.2	14212.7	13985.1	15055.5	13494.2
57.5°	12560.4	12642.8	12725.2	12790.5	13534.8	14743.0	15905.6	15909.3	15363.1	16167.7	14642.1
60°	12701.9	12774.5	13319.5	13833.8	15041.9	16413.8	17663.8	17626.9	16789.0	17374.6	15921.6
62.5°	11227.9	11391.6	12302.0	13670.1	16493.7	19469.9	19906.7	19861.1	18494.2	18862.1	17411.6
65°	8046.3	8232.1	9330.8	11386.7	15790.0	22837.3	23954.4	23341.7	20819.6	20691.6	19156.2
67.5°	4642.0	4686.3	5162.4	6813.5	12022.7	23013.2	30129.4	29271.9	24430.6	22767.2	20010.0
70°	3432.6	3431.4	3544.6	4192.9	6506.0	18782.1	33066.2	33835.2	28232.3	23450.0	18803.0
71°	3104.1	3107.8	3234.5	3816.5	5152.6	15721.1	32442.4	34125.5	29233.7	23112.9	17929.5
72.5°	2655.0	2667.3	2843.3	3422.8	4334.4	10841.6	29755.4	32383.4	29708.6	22281.2	16562.6
75°	2014.0	2042.3	2285.9	2885.1	3961.6	5498.3	21838.3	25859.0	26391.7	19660.6	12306.9
77.5°	1437.0	1469.0	1744.6	2426.2	3766.0	4143.7	14624.9	18862.1	19421.9	12599.8	5551.2
80°	908.0	946.1	1154.0	1930.4	3538.4	3934.6	9190.5	12678.5	10590.6	4031.8	1412.4
82.5°	532.7	562.3	716.0	1261.1	2890.0	3789.4	5407.3	7027.6	4121.6	1218.0	642.2
85°	308.8	322.3	446.6	803.4	2098.9	3576.6	3972.7	3928.4	1788.9	595.5	303.9
87.5°	143.9	159.9	264.5	419.5	1165.1	2592.3	3139.8	2712.9	1112.2	279.3	142.7
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°	9786.0	9786.0	9786.0	9786.0	9786.0	9786.0	9786.0	9786.0	9786.0	9786.0	9786.0
2.5°	9701.1	9680.2	9592.8	9515.3	9434.1	9328.3	9211.4	9196.7	9125.3	9138.9	9114.2
5°	9509.2	9456.3	9245.9	9055.2	8830.0	8628.3	8409.3	8308.4	8163.2	8153.4	8116.5
7.5°	9234.8	9136.4	8810.4	8448.6	8086.9	7742.4	7401.6	7177.7	6948.9	6851.7	6843.1
10°	8926.0	8758.7	8278.9	7743.7	7222.0	6718.8	6231.6	5871.1	5546.3	5392.5	5386.4
12.5°	8633.2	8385.9	7727.7	6999.3	6285.7	5633.7	4965.6	4491.9	4084.7	3948.1	3890.3
15°	8384.7	8036.5	7191.2	6259.9	5393.7	4488.2	3727.9	3229.6	2853.1	2722.7	2698.1
17.5°	8143.5	7695.7	6641.3	5513.1	4466.1	3470.7	2709.2	2338.8	2138.3	2085.4	2084.2
20°	7903.6	7345.0	6066.7	4749.1	3569.2	2596.0	2082.9	1916.8	1849.2	1843.0	1833.2
22.5°	7631.7	6973.5	5462.6	3982.6	2785.5	2041.1	1770.4	1704.0	1695.4	1717.5	1717.5
25°	7377.0	6604.4	4849.9	3232.1	2166.6	1702.8	1581.0	1567.4	1590.8	1630.2	1633.9
27.5°	7139.6	6248.8	4252.0	2565.2	1736.0	1499.8	1449.3	1465.3	1507.1	1552.7	1553.9
30°	6944.0	5912.9	3671.3	2021.4	1466.5	1348.4	1339.8	1371.8	1417.3	1453.0	1461.6
32.5°	6792.6	5626.3	3110.3	1625.3	1290.6	1235.2	1242.6	1269.7	1298.0	1317.7	1331.2
35°	6722.5	5380.2	2592.3	1370.6	1178.7	1147.9	1157.7	1172.5	1184.8	1199.6	1210.6
37.5°	6734.8	5189.5	2129.7	1211.9	1103.6	1087.6	1087.6	1087.6	1087.6	1095.0	1096.2
40°	6849.2	5080.0	1753.2	1111.0	1053.2	1035.9	1022.4	1010.1	1000.3	1005.2	1002.7
42.5°	7142.0	5070.2	1477.6	1047.0	1012.6	984.3	957.2	940.0	927.7	932.6	935.0
45°	7639.1	5193.2	1291.8	1001.5	974.4	931.4	896.9	878.5	869.8	885.8	888.3
47.5°	8282.5	5461.4	1178.7	968.3	938.7	882.1	845.2	828.0	830.5	853.8	860.0
50°	9111.8	5896.9	1124.5	947.3	914.1	840.3	802.2	787.4	794.8	828.0	835.4
52.5°	10022.2	6524.4	1130.7	941.2	898.1	809.6	769.0	751.7	764.0	794.8	800.9
55°	11072.9	7278.6	1232.8	949.8	874.8	789.9	741.9	712.4	722.2	750.5	755.4
57.5°	12240.5	8142.3	1438.2	947.3	845.2	771.4	713.6	669.3	676.7	693.9	698.8
60°	13456.1	9185.6	1756.9	954.7	831.7	749.3	675.4	620.1	617.6	632.4	634.8
62.5°	14915.2	10392.6	2121.1	959.7	840.3	721.0	625.0	570.9	563.5	567.2	569.6
65°	16418.7	11266.1	1984.5	940.0	867.4	697.6	580.7	522.9	509.4	506.9	508.1
67.5°	16465.4	10329.8	1391.5	900.6	878.5	685.3	547.5	482.3	460.1	451.5	450.3
70°	14766.4	8392.0	1083.9	858.8	834.2	665.6	516.7	449.1	415.8	402.3	401.1
71°	13937.1	7725.2	1027.3	837.9	800.9	645.9	503.2	434.3	399.9	385.1	382.6
72.5°	12636.7	6925.5	958.4	804.6	737.0	595.5	477.4	413.4	377.7	360.5	356.8
75°	9068.7	4528.8	823.1	717.3	610.2	474.9	418.3	371.6	340.8	319.9	317.4
77.5°	3494.1	1802.4	622.5	596.7	467.5	371.6	344.5	321.1	299.0	278.1	276.8
80°	1080.2	805.9	454.0	449.1	338.3	276.8	268.2	262.1	253.4	231.3	226.4
82.5°	577.0	462.6	312.5	290.4	221.5	184.5	194.4	196.9	198.1	174.7	172.2
85°	275.6	244.8	175.9	164.9	129.2	103.3	119.3	129.2	130.4	107.0	99.7
87.5°	131.6	128.0	82.4	62.7	48.0	34.4	41.8	51.7	56.6	40.6	35.7
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)