

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: P319641

Luminaire Tested: **GAN-SA7B-730-U-SL3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319641
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-SA7B-730-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3000K, 800mA 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: 36814 lumens
Efficiency: N/A
Efficacy: 124.8 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

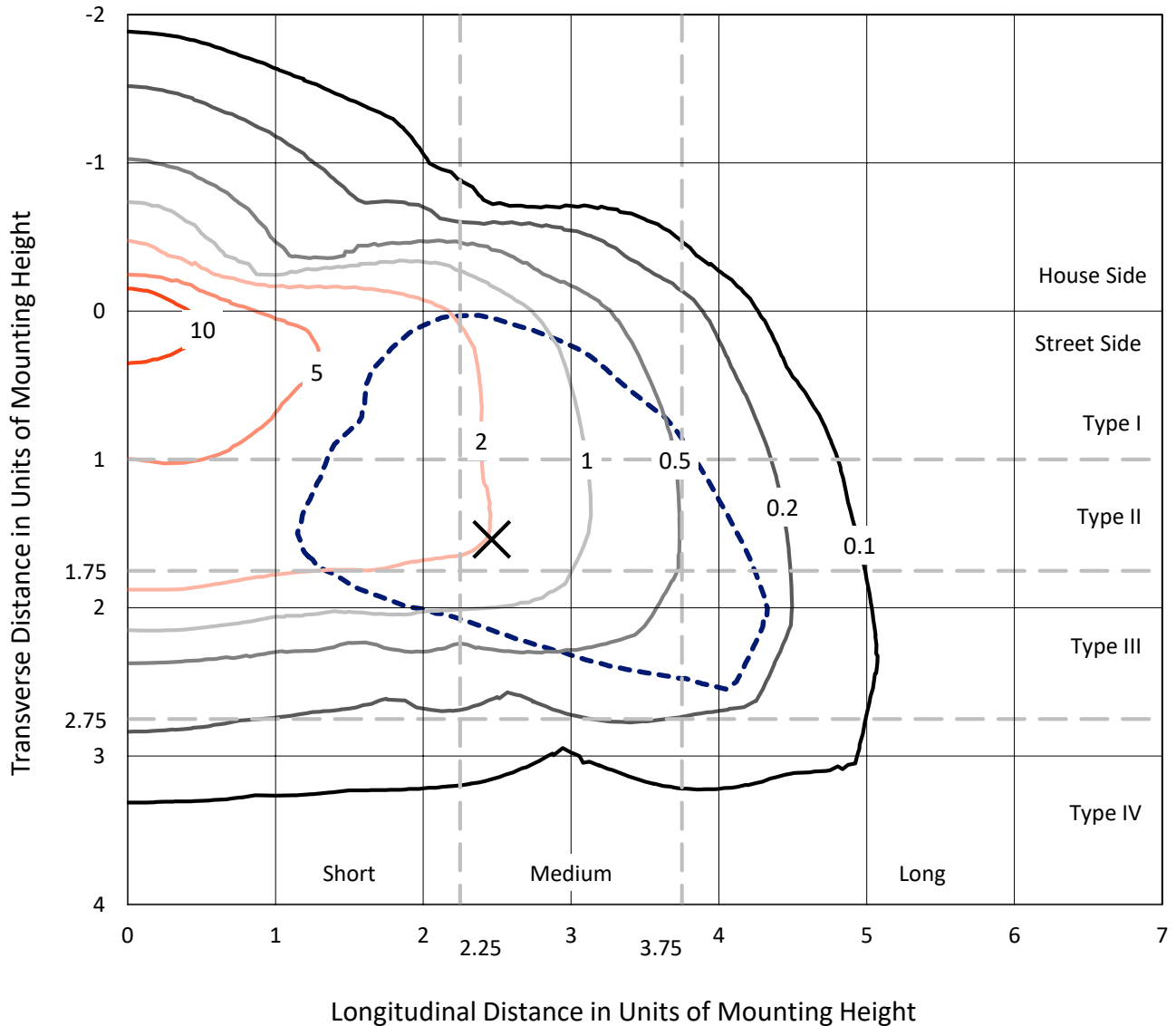
Input Watts (W): 295
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

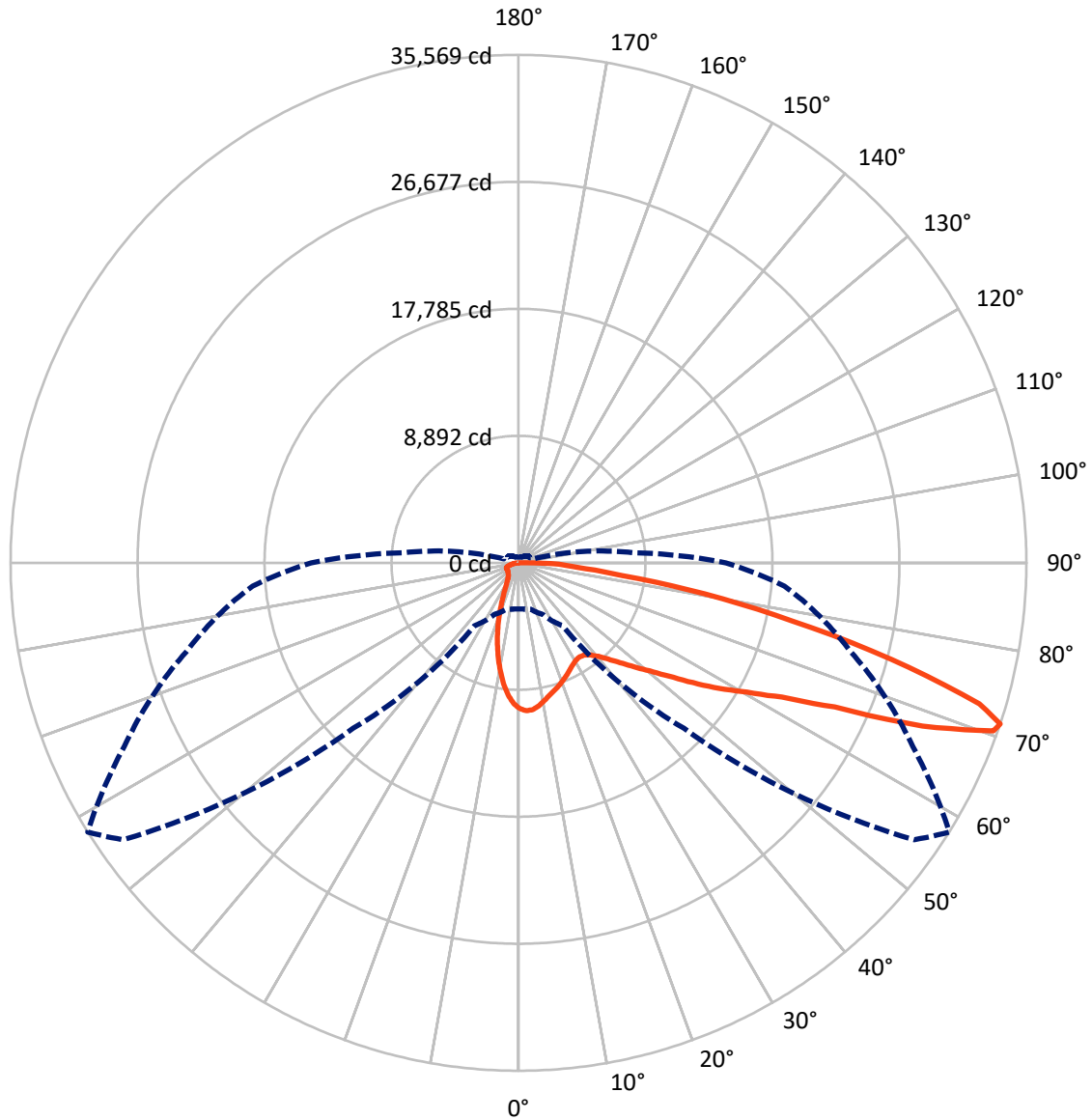
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.3 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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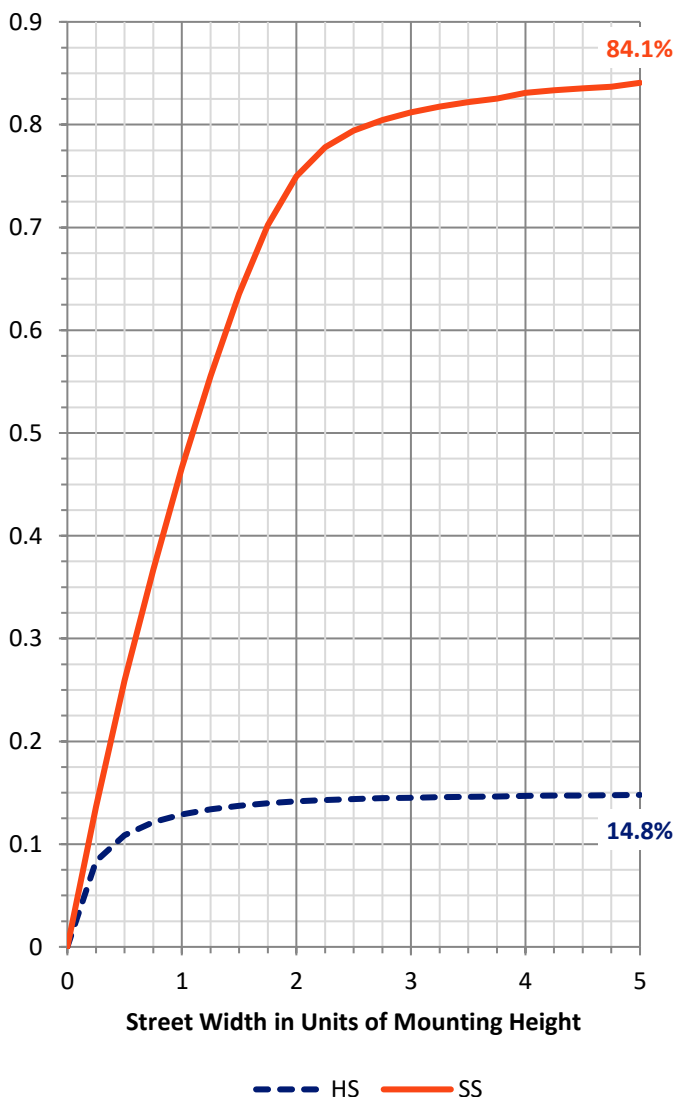
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5503.9	0.0	5503.9
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	31310.0	0.0	31310.0
	% Fixture	85.0	0.0	85.0
Total	Lumens	36814.0	0.0	36814.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	880.0	2.4
10°-20°	1956.7	5.3
20°-30°	2486.7	6.8
30°-40°	3167.6	8.6
40°-50°	4491.8	12.2
50°-60°	6951.2	18.9
60°-70°	9463.2	25.7
70°-80°	6313.1	17.1
80°-90°	1103.7	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°	36814.0	100.0
0°-180°	36814.0	100.0

Coefficient of Utilization

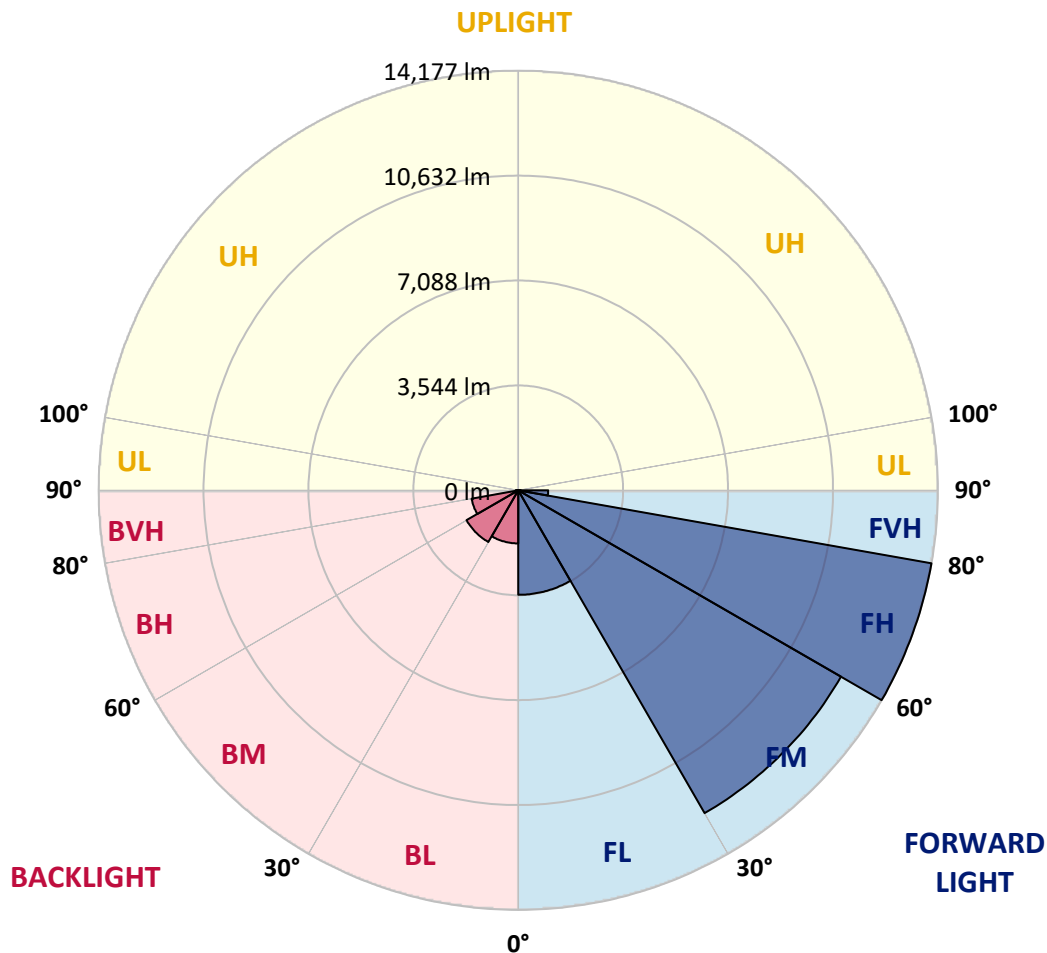


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3529.2	9.6			
FM (30°-60°)	12592.2	34.2			
FH (60°-80°)	14176.6	38.5			G5
FVH (80°-90°)	1012.0	2.7			G5
BL (0°-30°)	1794.1	4.9	B3/2500		
BM (30°-60°)	2018.4	5.5	B2/2500		
BH (60°-80°)	1599.7	4.3	B3/2500		G3/2500
BVH (80°-90°)	91.7	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°	10199.9	10199.9	10199.9	10199.9	10199.9	10199.9	10199.9	10199.9	10199.9	10199.9	10199.9
2.5°	10470.5	10456.4	10461.5	10451.3	10426.9	10402.6	10366.6	10373.1	10323.0	10248.7	10156.3
5°	10273.0	10267.9	10306.4	10328.2	10346.1	10332.0	10321.8	10334.6	10261.5	10158.9	9998.6
7.5°	9858.8	9802.4	9851.1	9924.2	9993.5	10046.1	10115.3	10124.3	10078.1	9970.4	9760.1
10°	9270.2	9216.4	9288.2	9402.3	9540.8	9666.5	9806.3	9831.9	9840.9	9743.4	9488.2
12.5°	8659.8	8618.8	8690.6	8850.9	9080.4	9274.1	9497.2	9535.7	9615.2	9549.8	9236.9
15°	8113.5	8098.1	8185.3	8343.1	8607.2	8903.5	9225.3	9295.9	9430.5	9408.7	9040.7
17.5°	7641.6	7637.8	7704.5	7869.9	8162.3	8536.7	8954.8	9074.0	9274.1	9299.7	8879.1
20°	7290.3	7282.6	7328.7	7450.5	7751.9	8176.4	8662.4	8826.5	9115.1	9204.8	8712.4
22.5°	7101.7	7100.5	7101.7	7159.4	7405.7	7800.6	8377.7	8577.7	8959.9	9129.2	8527.7
25°	7069.7	7065.8	7037.6	7031.2	7171.0	7486.5	8095.6	8316.1	8812.4	9076.6	8352.0
27.5°	7153.0	7158.2	7121.0	7060.7	7088.9	7280.0	7850.6	8086.6	8694.4	9066.3	8230.2
30°	7326.2	7323.6	7291.5	7228.7	7173.6	7203.0	7676.2	7912.2	8614.9	9111.2	8146.9
32.5°	7517.2	7531.3	7524.9	7490.3	7408.2	7290.3	7623.7	7854.5	8591.9	9218.9	8111.0
35°	7746.8	7762.2	7808.3	7835.3	7739.1	7549.3	7736.5	7936.6	8658.5	9421.5	8168.7
37.5°	7964.8	8004.5	8134.0	8248.2	8166.1	7954.5	8036.6	8178.9	8865.0	9740.9	8323.8
40°	8216.1	8250.7	8462.3	8704.7	8691.9	8472.6	8520.0	8614.9	9229.2	10198.7	8604.7
42.5°	8463.6	8532.9	8839.3	9183.0	9281.8	9088.1	9163.8	9213.8	9742.1	10805.2	9094.5
45°	8793.2	8867.6	9293.3	9707.5	9938.3	9829.3	9949.9	9969.1	10387.2	11631.1	9806.3
47.5°	9292.0	9376.7	9872.9	10307.7	10660.3	10671.8	10870.6	10862.9	11192.5	12576.2	10702.6
50°	10069.1	10191.0	10597.5	11004.0	11432.3	11670.8	11936.3	11899.1	12158.1	13582.8	11734.9
52.5°	11087.3	11143.8	11445.1	11745.2	12277.4	12812.1	13193.0	13159.6	13253.3	14617.7	12907.0
55°	12142.7	12185.0	12309.4	12473.6	13189.1	14061.1	14866.5	14813.9	14576.7	15692.3	14065.0
57.5°	13091.7	13177.6	13263.5	13331.5	14107.3	15366.6	16578.4	16582.3	16012.9	16851.6	15261.4
60°	13239.1	13314.8	13882.9	14418.9	15678.2	17108.0	18410.9	18372.5	17499.2	18109.6	16595.1
62.5°	11702.9	11873.4	12822.4	14248.4	17191.4	20293.4	20748.7	20701.2	19276.5	19660.0	18148.0
65°	8386.7	8580.3	9725.5	11868.3	16457.9	23803.3	24967.7	24329.0	21700.2	21566.8	19966.4
67.5°	4838.4	4884.5	5380.8	7101.7	12531.3	23986.7	31403.9	30510.1	25463.9	23730.2	20856.4
70°	3577.8	3576.5	3694.5	4370.3	6781.2	19576.6	34464.9	35266.3	29426.5	24441.9	19598.4
71°	3235.4	3239.3	3371.3	3977.9	5370.5	16386.1	33814.7	35569.0	30470.3	24090.5	18687.9
72.5°	2767.3	2780.2	2963.5	3567.5	4517.8	11300.2	31014.0	33753.2	30965.3	23223.6	17263.2
75°	2099.2	2128.7	2382.6	3007.1	4129.2	5730.9	22762.0	26952.8	27508.0	20492.2	12827.5
77.5°	1497.8	1531.1	1818.4	2528.8	3925.3	4319.0	15243.5	19660.0	20243.4	13132.7	5786.0
80°	946.4	986.1	1202.9	2012.0	3688.1	4101.0	9579.3	13214.8	11038.6	4202.3	1472.2
82.5°	555.3	586.0	746.3	1314.4	3012.3	3949.7	5636.0	7324.9	4295.9	1269.5	669.4
85°	321.9	336.0	465.5	837.4	2187.7	3727.8	4140.8	4094.6	1864.6	620.7	316.7
87.5°	150.0	166.7	275.7	437.3	1214.4	2701.9	3272.6	2827.6	1159.3	291.1	148.8
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°	10199.9	10199.9	10199.9	10199.9	10199.9	10199.9	10199.9	10199.9	10199.9	10199.9	10199.9
2.5°	10111.5	10089.7	9998.6	9917.8	9833.2	9722.9	9601.1	9585.7	9511.3	9525.4	9499.8
5°	9911.4	9856.3	9637.0	9438.2	9203.5	8993.2	8765.0	8659.8	8508.5	8498.2	8459.8
7.5°	9625.4	9522.8	9183.0	8806.0	8429.0	8069.9	7714.7	7481.3	7242.8	7141.5	7132.5
10°	9303.6	9129.2	8629.0	8071.2	7527.5	7003.0	6495.2	6119.5	5780.9	5620.6	5614.2
12.5°	8998.4	8740.6	8054.5	7295.4	6551.6	5872.0	5175.6	4681.9	4257.5	4115.1	4054.8
15°	8739.3	8376.4	7495.4	6524.7	5621.9	4678.1	3885.6	3366.2	2973.8	2837.9	2812.2
17.5°	8488.0	8021.2	6922.2	5746.3	4655.0	3617.6	2823.8	2437.8	2228.8	2173.6	2172.3
20°	8237.9	7655.7	6323.3	4949.9	3720.1	2705.8	2171.0	1997.9	1927.4	1921.0	1910.7
22.5°	7954.5	7268.5	5693.7	4151.0	2903.3	2127.4	1845.3	1776.1	1767.1	1790.2	1790.2
25°	7689.1	6883.7	5055.1	3368.8	2258.2	1774.8	1647.8	1633.7	1658.1	1699.1	1703.0
27.5°	7441.6	6513.1	4431.9	2673.7	1809.4	1563.2	1510.6	1527.3	1570.9	1618.3	1619.6
30°	7237.7	6163.1	3826.6	2106.9	1528.6	1405.5	1396.5	1429.8	1477.3	1514.5	1523.5
32.5°	7079.9	5864.3	3241.8	1694.0	1345.2	1287.5	1295.2	1323.4	1352.9	1373.4	1387.5
35°	7006.8	5607.8	2701.9	1428.6	1228.5	1196.4	1206.7	1222.1	1234.9	1250.3	1261.8
37.5°	7019.7	5409.0	2219.8	1263.1	1150.3	1133.6	1133.6	1133.6	1133.6	1141.3	1142.6
40°	7138.9	5294.9	1827.4	1158.0	1097.7	1079.8	1065.6	1052.8	1042.6	1047.7	1045.1
42.5°	7444.1	5284.6	1540.1	1091.3	1055.4	1025.9	997.7	979.7	966.9	972.0	974.6
45°	7962.2	5412.9	1346.5	1043.8	1015.6	970.8	934.8	915.6	906.6	923.3	925.9
47.5°	8632.9	5692.4	1228.5	1009.2	978.4	919.5	881.0	863.0	865.6	890.0	896.4
50°	9497.2	6146.4	1172.1	987.4	952.8	875.9	836.1	820.7	828.4	863.0	870.7
52.5°	10446.2	6800.4	1178.5	981.0	936.1	843.8	801.5	783.5	796.3	828.4	834.8
55°	11541.3	7586.5	1284.9	990.0	911.8	823.3	773.3	742.5	752.7	782.2	787.4
57.5°	12758.3	8486.7	1499.1	987.4	881.0	804.0	743.8	697.6	705.3	723.3	728.4
60°	14025.2	9574.1	1831.2	995.1	866.9	781.0	704.0	646.3	643.7	659.1	661.7
62.5°	15546.1	10832.1	2210.8	1000.2	875.9	751.5	651.4	595.0	587.3	591.2	593.7
65°	17113.2	11742.6	2068.5	979.7	904.1	727.1	605.3	545.0	530.9	528.3	529.6
67.5°	17161.9	10766.7	1450.4	938.7	915.6	714.3	570.7	502.7	479.6	470.6	469.3
70°	15391.0	8747.0	1129.8	895.1	869.4	693.8	538.6	468.1	433.4	419.3	418.1
71°	14526.6	8052.0	1070.8	873.3	834.8	673.2	524.5	452.7	416.8	401.4	398.8
72.5°	13171.2	7218.4	999.0	838.7	768.1	620.7	497.6	430.9	393.7	375.7	371.9
75°	9452.3	4720.4	857.9	747.6	636.1	495.0	436.0	387.3	355.2	333.4	330.9
77.5°	3641.9	1878.7	648.9	621.9	487.3	387.3	359.1	334.7	311.6	289.8	288.5
80°	1125.9	839.9	473.2	468.1	352.7	288.5	279.6	273.1	264.2	241.1	236.0
82.5°	601.4	482.2	325.7	302.6	230.8	192.4	202.6	205.2	206.5	182.1	179.5
85°	287.2	255.2	183.4	171.8	134.6	107.7	124.4	134.6	135.9	111.6	103.9
87.5°	137.2	133.4	85.9	65.4	50.0	35.9	43.6	53.9	59.0	42.3	37.2
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)