

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: P323844

Luminaire Tested: **GAN-SA0B-740-U-SL4-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323844
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-25)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA0B-740-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 45908 lumens
Efficiency: N/A
Efficacy: 109.6 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

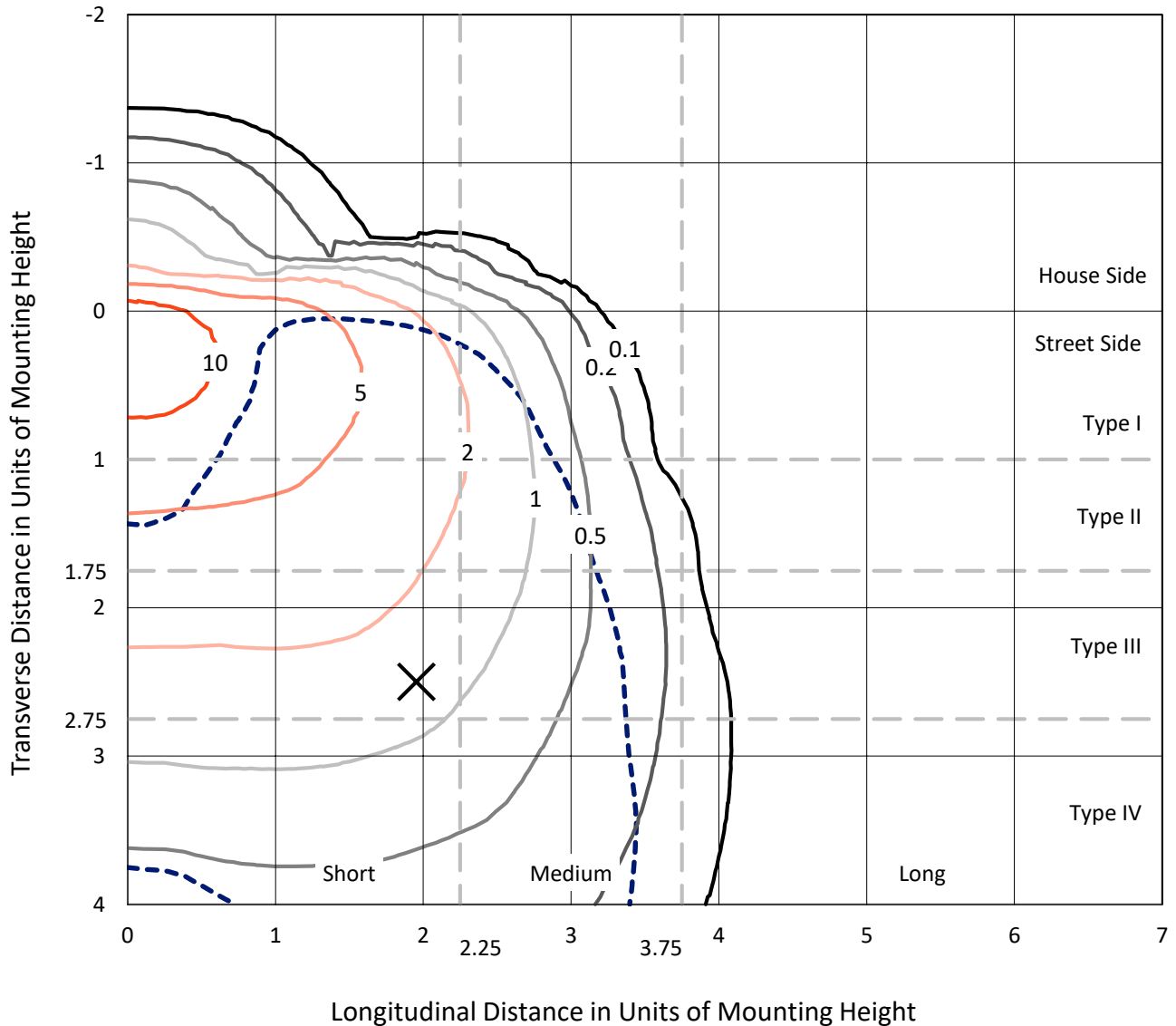
Input Watts (W): 419
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

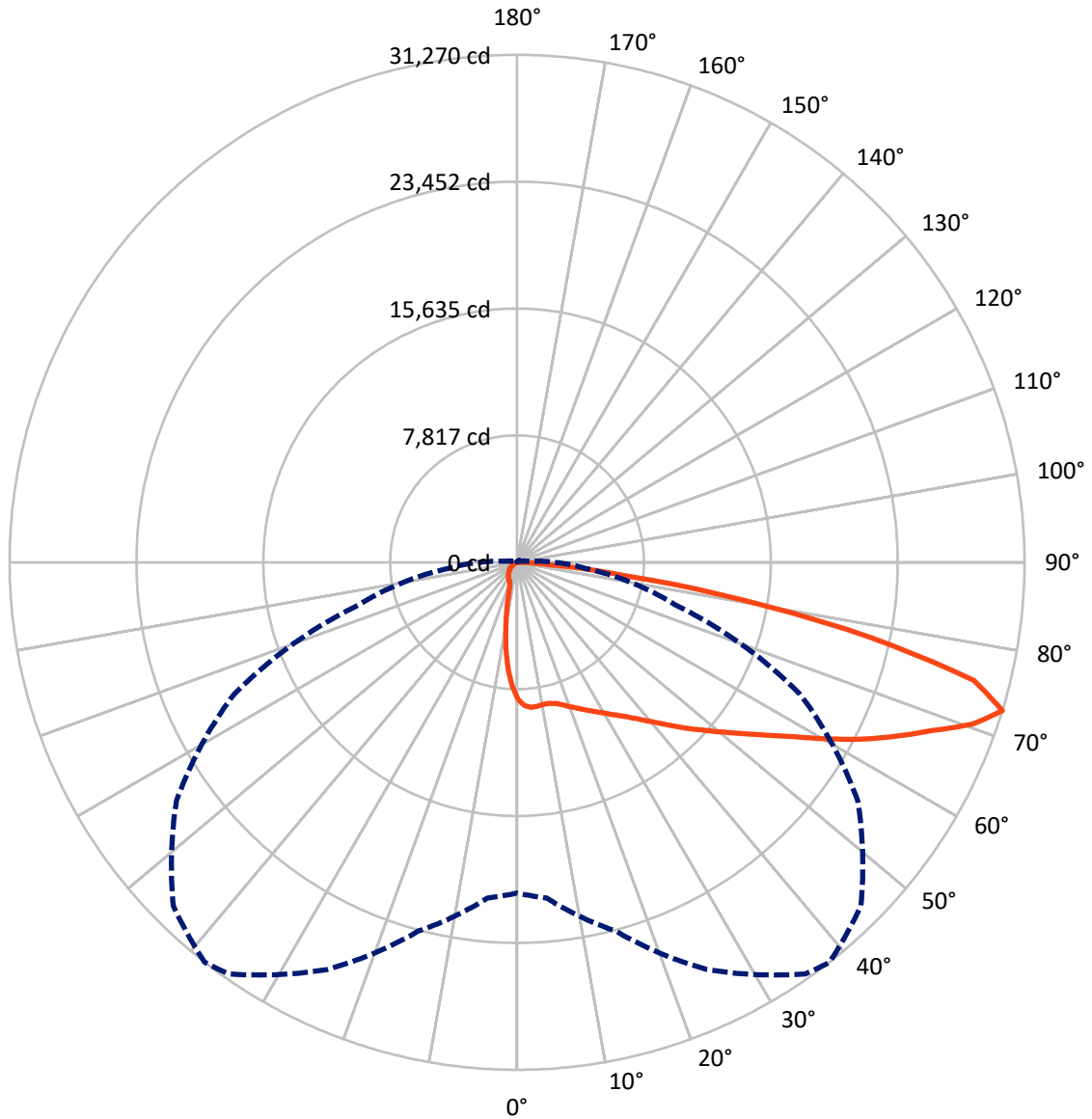
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.3 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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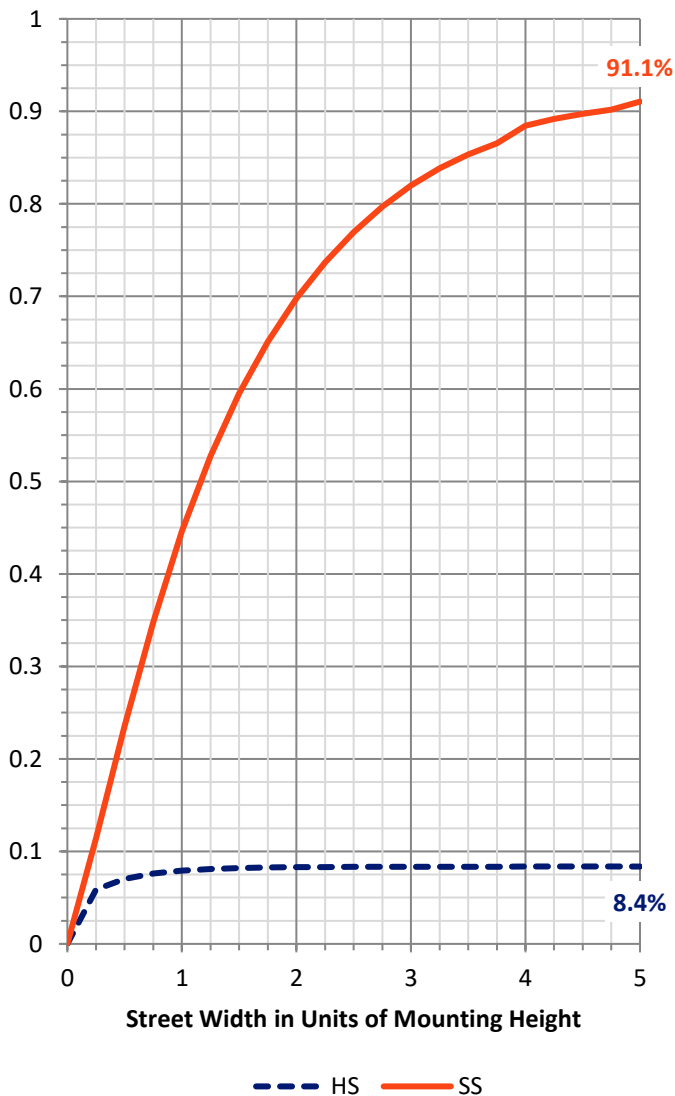
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3863.3	0.0	3863.3
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	42044.7	0.0	42044.7
	% Fixture	91.6	0.0	91.6
Total	Lumens	45908.0	0.0	45908.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	719.4	1.6
10°-20°	1759.2	3.8
20°-30°	2798.0	6.1
30°-40°	4206.5	9.2
40°-50°	6417.3	14.0
50°-60°	9069.8	19.8
60°-70°	11376.5	24.8
70°-80°	8506.5	18.5
80°-90°	1054.8	2.3
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°	45908.0	100.0
0°-180°	45908.0	100.0

Coefficient of Utilization



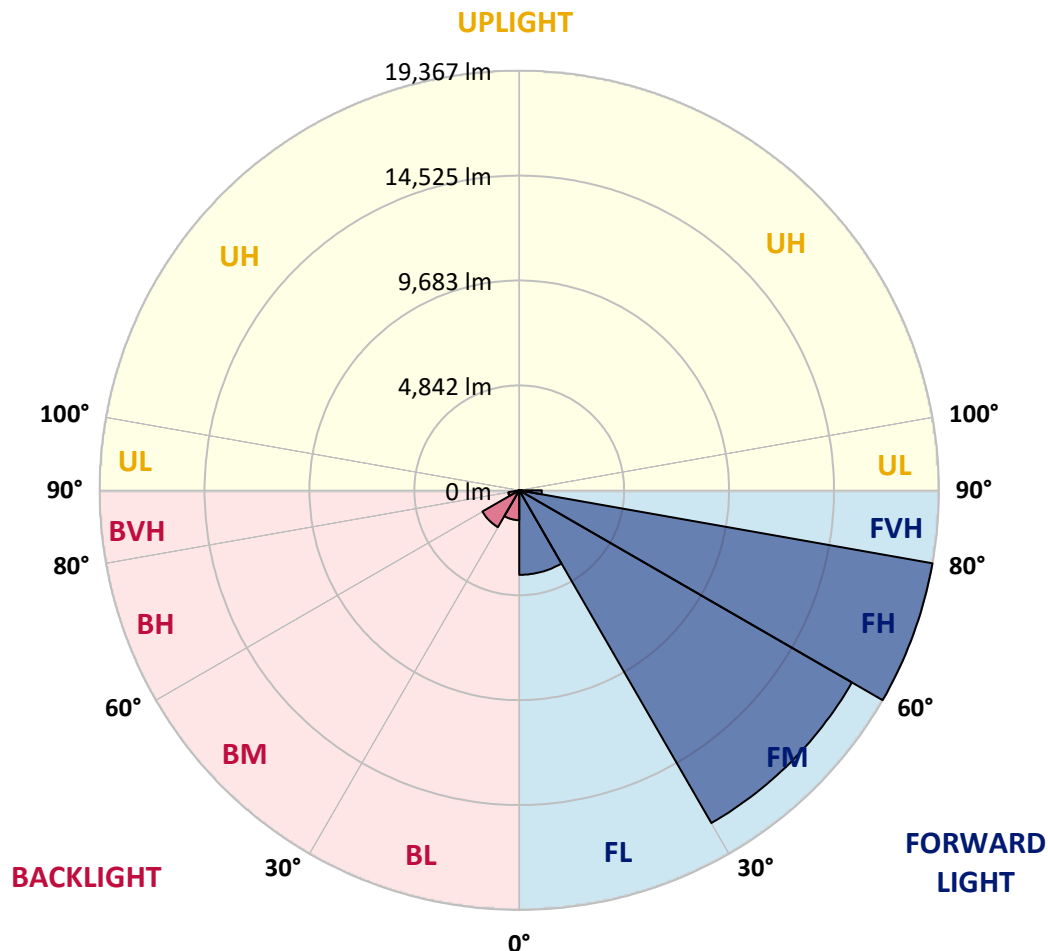
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3901.1	8.5			
FM (30°-60°)	17731.7	38.6			
FH (60°-80°)	19367.0	42.2			G5
FVH (80°-90°)	1044.9	2.3			G5
BL (0°-30°)	1375.6	3.0	B3/2500		
BM (30°-60°)	1961.8	4.3	B2/2500		
BH (60°-80°)	516.1	1.1	B2/1000		G2/1000
BVH (80°-90°)	9.8	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	8442.3	8442.3	8442.3	8442.3	8442.3	8442.3	8442.3	8442.3	8442.3	8442.3	8442.3
2.5°	8960.9	8962.8	8941.9	8907.5	8863.7	8840.8	8802.7	8741.7	8676.8	8560.5	8434.7
5°	9144.0	9144.0	9117.3	9071.5	9001.0	8980.0	8907.5	8810.3	8676.8	8488.1	8276.5
7.5°	9124.9	9128.7	9092.5	9044.8	8974.3	8955.2	8867.5	8758.8	8592.9	8364.2	8093.4
10°	9025.7	9035.3	9006.7	8983.8	8919.0	8898.0	8816.0	8707.3	8541.5	8297.4	7986.7
12.5°	8924.7	8934.2	8943.8	8964.7	8924.7	8917.1	8852.2	8760.7	8602.5	8348.9	7998.1
15°	8859.9	8878.9	8947.6	9029.6	9039.1	9031.5	8989.5	8903.7	8743.6	8480.5	8080.1
17.5°	8859.9	8890.4	9033.4	9189.7	9245.0	9250.7	9214.5	9094.4	8903.7	8621.5	8156.3
20°	8934.2	8976.2	9199.2	9420.4	9511.9	9511.9	9441.4	9273.6	9050.5	8749.3	8207.8
22.5°	9124.9	9180.2	9460.4	9715.9	9813.2	9792.2	9696.9	9452.8	9203.1	8894.2	8272.6
25°	9500.5	9542.4	9834.1	10091.5	10150.6	10103.0	9982.8	9670.2	9397.5	9090.6	8390.9
27.5°	9984.8	9990.5	10291.7	10509.1	10472.8	10440.4	10289.8	9942.8	9677.8	9370.8	8594.9
30°	10516.7	10516.7	10781.7	10947.6	10837.0	10810.3	10659.7	10272.6	10036.2	9752.1	8884.7
32.5°	11031.5	11054.3	11269.8	11374.6	11250.7	11224.0	11077.2	10690.2	10512.9	10333.7	9336.5
35°	11529.1	11546.2	11750.2	11807.4	11689.2	11696.9	11592.0	11264.1	11197.3	11174.5	10017.2
37.5°	12011.4	12015.3	12223.1	12259.3	12200.2	12265.0	12274.6	11984.8	12108.7	12293.6	10976.2
40°	12451.9	12455.7	12661.6	12755.0	12856.1	12939.9	13014.3	12859.9	13269.8	13698.8	12118.2
42.5°	12804.6	12844.6	13105.8	13283.1	13550.1	13710.2	13912.3	13904.7	14652.1	15296.5	13498.6
45°	13115.4	13184.0	13548.1	13858.9	14316.5	14572.0	14888.5	15136.3	16207.8	17075.3	14896.1
47.5°	13525.3	13590.1	14005.7	14514.8	15124.9	15460.4	15984.8	16520.5	17918.0	18821.7	16261.2
50°	14103.0	14074.4	14484.3	15214.5	15998.1	16438.5	17185.9	17988.6	19614.9	20343.2	17063.9
52.5°	14718.8	14707.3	15010.5	15975.2	17027.7	17542.4	18530.0	19506.2	21237.4	21391.8	17431.8
55°	15481.4	15399.4	15654.9	16842.7	18249.8	18802.7	19965.7	21008.6	22530.0	21982.9	17616.8
57.5°	16280.3	16144.9	16388.9	17809.4	19628.2	20282.2	21555.8	22472.8	23389.9	22387.0	17614.9
60°	17105.8	16945.7	17235.5	19018.1	21340.3	22097.2	23279.3	23462.4	24192.6	22591.0	17485.2
62.5°	17796.0	17700.7	18131.6	20310.8	23252.6	23996.2	24581.5	24362.3	24869.4	22749.3	17182.1
65°	18526.2	18531.9	19227.8	21818.9	25285.0	25786.5	25836.0	25529.1	25435.7	22716.9	16156.3
67.5°	19513.8	19605.3	20766.5	23866.6	27262.2	27649.2	27645.4	26793.1	25849.4	21428.0	13881.8
70°	20558.6	20774.1	22539.6	26209.7	29420.4	29813.2	29611.1	27597.7	24339.4	17327.0	9824.6
72.5°	20383.2	20756.9	23525.3	27687.3	30970.5	31269.8	29956.2	25620.6	19237.4	10070.5	4183.0
75°	15725.5	16158.3	21571.0	26223.1	29344.2	29075.3	25738.8	19937.1	10512.9	2810.3	941.8
77.5°	8307.0	8537.7	14249.8	19977.1	22880.8	22318.4	18131.6	11060.1	3205.0	695.9	423.3
80°	4350.8	4404.2	6209.7	11334.6	14122.0	14125.8	10745.5	4858.0	1321.3	356.5	284.1
82.5°	2329.8	2375.6	3281.2	5237.4	7399.4	6707.3	4114.4	2673.0	768.4	202.1	272.6
85°	560.5	570.1	1860.8	2392.8	2909.4	2078.2	1222.1	2244.0	207.8	118.2	221.2
87.5°	215.4	219.3	690.2	1035.3	741.7	480.5	572.0	837.0	26.7	45.8	34.3
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°	8442.3	8442.3	8442.3	8442.3	8442.3	8442.3	8442.3	8442.3	8442.3	8442.3	8442.3
2.5°	8358.4	8308.9	8186.8	8032.4	7895.1	7796.0	7647.3	7550.1	7485.2	7483.3	7458.5
5°	8146.8	8045.8	7782.7	7470.0	7185.9	6930.4	6629.2	6390.9	6213.5	6184.9	6123.9
7.5°	7919.9	7754.1	7349.9	6861.8	6385.1	5900.9	5338.4	4989.5	4690.2	4547.2	4531.9
10°	7780.7	7548.1	6974.3	6268.8	5521.5	4734.0	3998.1	3489.0	3121.1	3016.2	2938.0
12.5°	7752.1	7445.2	6684.5	5712.1	4644.4	3603.4	2789.3	2247.9	1954.2	1860.8	1836.0
15°	7780.7	7397.5	6440.4	5161.1	3756.0	2556.7	1872.3	1557.7	1447.1	1420.4	1418.5
17.5°	7797.9	7340.3	6164.0	4549.1	2894.2	1826.5	1433.7	1342.2	1325.1	1323.2	1327.0
20°	7796.0	7252.6	5834.1	3866.5	2152.5	1435.7	1296.5	1277.4	1273.6	1275.5	1273.6
22.5°	7782.7	7149.7	5471.9	3163.0	1626.3	1283.1	1237.4	1225.9	1224.0	1224.0	1224.0
25°	7807.4	7067.7	5073.4	2490.0	1340.3	1212.6	1184.0	1174.5	1172.5	1172.5	1168.7
27.5°	7897.0	7021.9	4636.8	1916.1	1210.7	1149.7	1126.8	1124.9	1119.2	1117.3	1121.1
30°	8041.9	7021.9	4158.2	1490.9	1132.5	1084.8	1067.7	1063.9	1062.0	1060.1	1062.0
32.5°	8297.4	7075.3	3635.8	1239.3	1058.2	1012.4	1001.0	1006.7	1001.0	1001.0	1001.0
35°	8758.8	7235.5	3088.7	1081.0	980.0	941.8	930.4	938.0	934.2	934.2	932.3
37.5°	9431.8	7532.9	2537.7	985.7	911.3	871.3	856.1	867.5	863.7	863.7	861.8
40°	10251.7	7965.7	2013.3	913.3	844.6	802.7	789.3	795.0	785.5	785.5	789.3
42.5°	11264.1	8514.8	1555.8	842.7	777.9	737.8	730.2	724.5	707.3	697.8	699.7
45°	12388.9	9086.8	1212.6	774.1	715.0	682.6	671.1	655.9	627.3	608.2	610.1
47.5°	13393.7	9527.2	985.7	707.3	657.8	633.0	615.8	587.2	545.3	522.4	524.3
50°	13921.8	9593.9	838.9	640.6	604.4	579.6	554.8	511.0	461.4	436.6	434.7
52.5°	14057.2	9281.2	730.2	579.6	551.0	522.4	490.0	430.9	375.6	348.9	345.1
55°	14106.8	8804.6	633.0	522.4	493.8	461.4	419.4	352.7	301.2	274.5	272.6
57.5°	13942.8	8093.4	556.7	470.9	436.6	396.6	345.1	282.2	232.6	211.6	211.6
60°	13578.7	7130.6	497.6	415.6	377.5	331.7	278.4	219.3	173.5	156.3	156.3
62.5°	12852.2	5883.7	442.3	358.4	322.2	274.5	225.0	165.9	122.0	112.5	114.4
65°	11481.4	4463.3	387.0	307.0	274.5	226.9	175.4	118.2	82.0	82.0	85.8
67.5°	9363.2	3100.1	329.8	261.2	236.4	184.9	133.5	82.0	57.2	64.8	72.4
70°	6198.3	1738.8	282.2	215.4	202.1	146.8	99.1	55.3	45.8	61.0	74.4
72.5°	2339.4	676.8	236.4	173.5	175.4	112.5	70.5	41.9	41.9	66.7	87.7
75°	652.0	331.7	169.7	127.7	137.3	82.0	51.5	36.2	40.0	76.3	103.0
77.5°	383.2	244.0	110.6	74.4	93.4	57.2	34.3	28.6	34.3	64.8	99.1
80°	308.9	129.6	64.8	38.1	51.5	32.4	22.9	17.2	9.5	24.8	51.5
82.5°	308.9	78.2	30.5	26.7	26.7	17.2	11.4	7.6	1.9	0.0	13.3
85°	207.8	32.4	19.1	17.2	13.3	5.7	3.8	1.9	0.0	0.0	0.0
87.5°	34.3	13.3	7.6	3.8	1.9	0.0	0.0	0.0	0.0	0.0	0.0
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)