

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: P321893

Luminaire Tested: **GAN-SA9C-730-U-T2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321893
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-13)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA9C-730-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 40966 lumens
Efficiency: N/A
Efficacy: 81.8 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G5

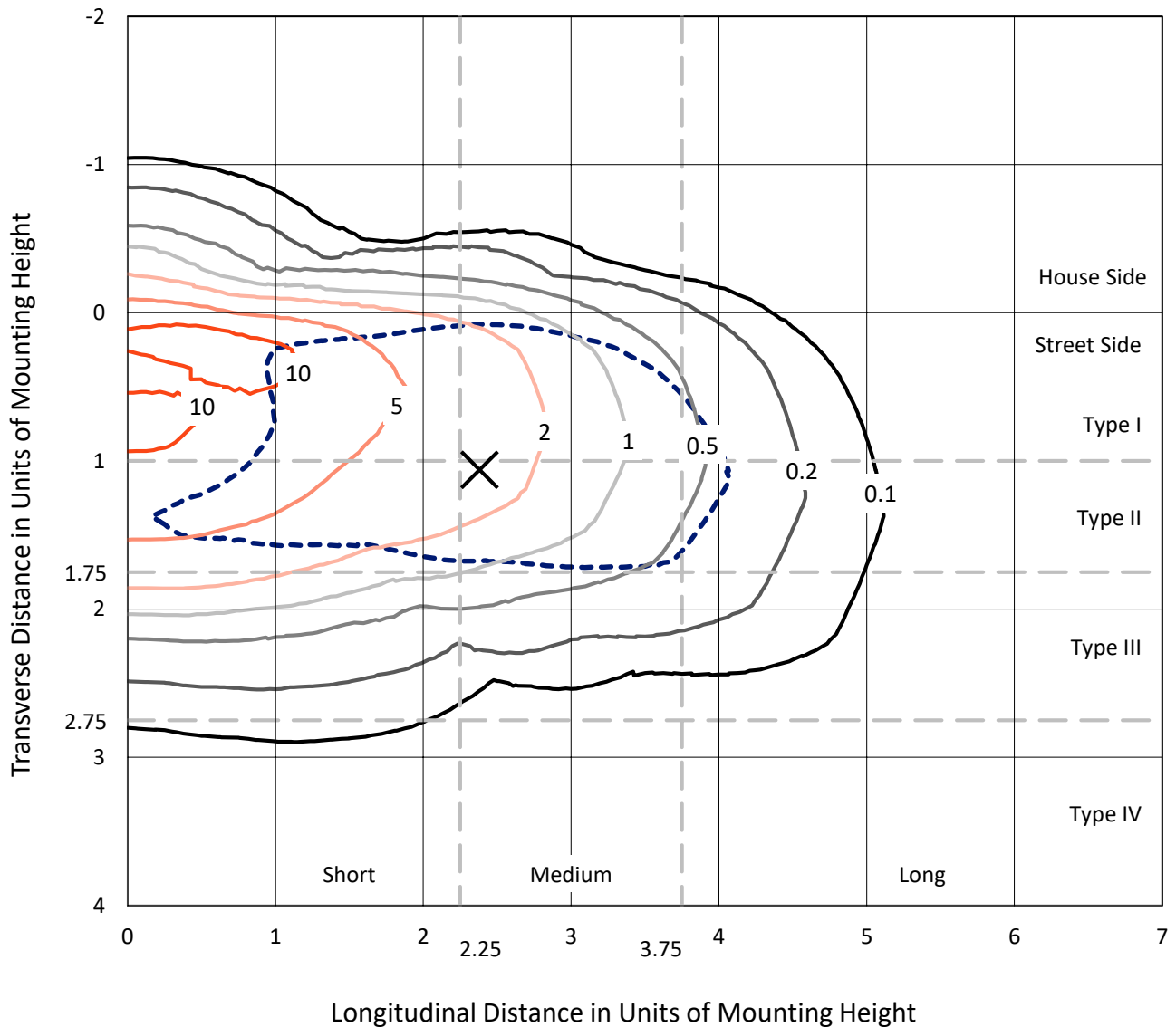
Input Watts (W): 501
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

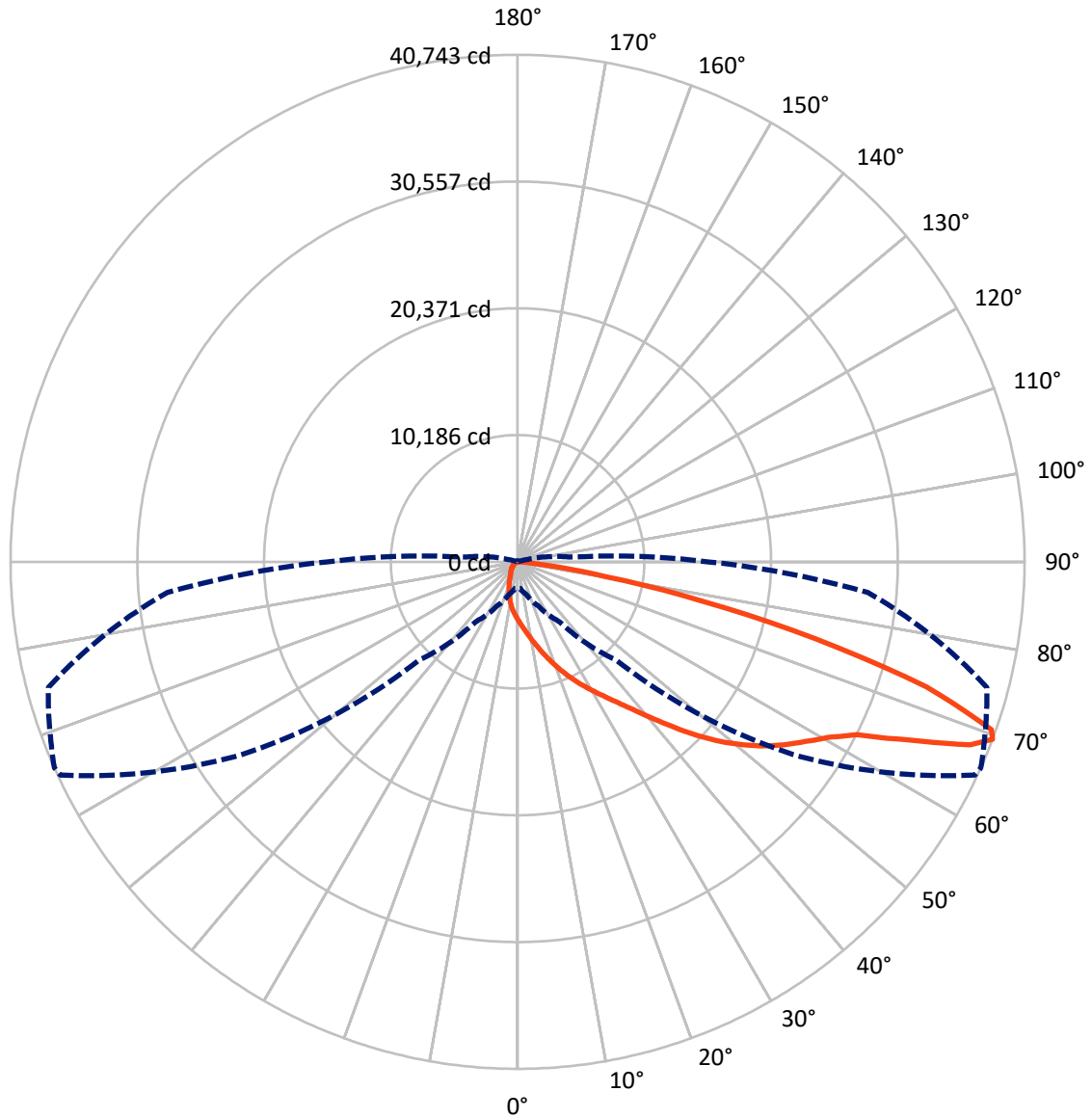
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.3 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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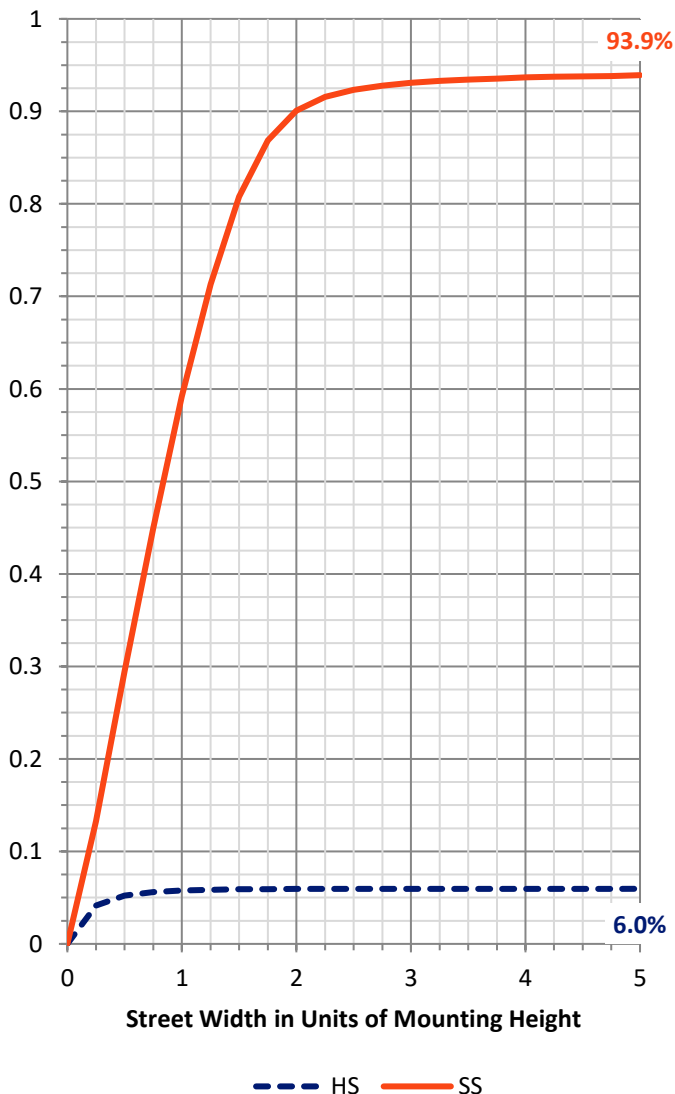
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2457.4	0.0	2457.4
	% Fixture	6.0	0.0	6.0
Street Side	Lumens	38508.6	0.0	38508.6
	% Fixture	94.0	0.0	94.0
Total	Lumens	40966.0	0.0	40966.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	450.6	1.1
10°-20°	1341.2	3.3
20°-30°	2335.6	5.7
30°-40°	4097.7	10.0
40°-50°	6858.9	16.7
50°-60°	10082.0	24.6
60°-70°	10351.7	25.3
70°-80°	5110.3	12.5
80°-90°	337.9	0.8
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°	40966.0	100.0
0°-180°	40966.0	100.0

Coefficient of Utilization

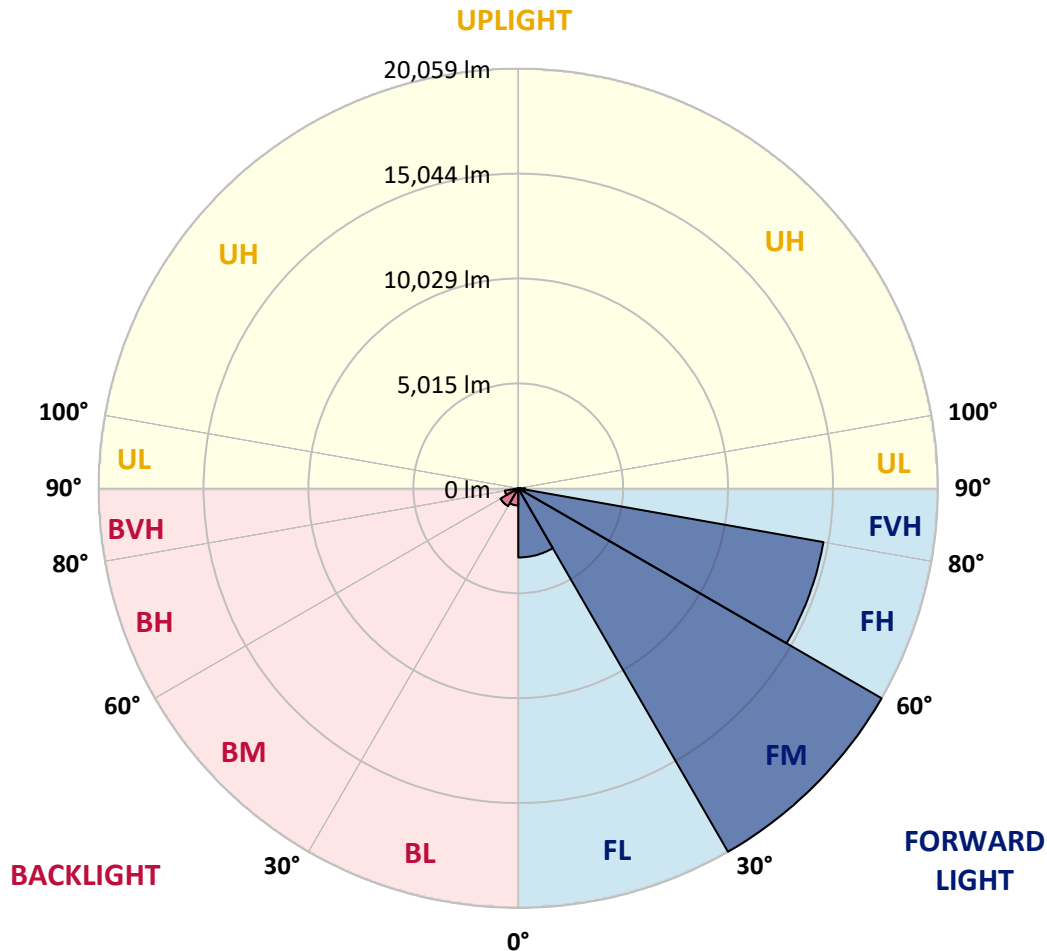


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3305.6	8.1			
FM (30°-60°)	20058.9	49.0			
FH (60°-80°)	14814.4	36.2			G5
FVH (80°-90°)	329.7	0.8			G3/500
BL (0°-30°)	821.9	2.0	B2/1000		
BM (30°-60°)	979.8	2.4	B1/1000		
BH (60°-80°)	647.6	1.6	B2/1000		G2/1000
BVH (80°-90°)	8.2	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G5
 Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	4662.1	4662.1	4662.1	4662.1	4662.1	4662.1	4662.1	4662.1	4662.1	4662.1	4662.1
2.5°	5487.1	5463.7	5454.0	5411.2	5337.2	5280.8	5171.9	5045.4	5022.0	4899.4	4749.6
5°	6199.2	6179.8	6166.1	6105.8	6029.9	5887.9	5689.4	5454.0	5409.2	5175.7	4876.1
7.5°	6695.4	6730.4	6730.4	6691.5	6596.2	6489.1	6245.9	5924.9	5868.4	5510.4	5045.4
10°	6985.3	7028.1	7061.2	7094.3	7080.7	7037.8	6808.2	6446.3	6378.2	5903.5	5241.9
12.5°	7012.6	7055.4	7148.8	7286.9	7421.2	7518.5	7374.5	7024.2	6946.4	6358.8	5475.4
15°	6860.8	6905.5	7049.5	7318.0	7643.0	7927.1	7973.8	7664.4	7584.6	6901.6	5767.3
17.5°	6596.2	6625.3	6831.6	7203.2	7713.0	8234.5	8516.6	8351.2	8277.3	7522.3	6092.2
20°	6399.6	6421.0	6602.0	7000.9	7670.2	8427.1	9030.3	9080.9	9003.1	8187.8	6444.4
22.5°	6736.3	6775.2	6781.0	6969.7	7553.5	8522.5	9481.7	9798.9	9740.5	8894.1	6790.7
25°	7656.6	7701.4	7553.5	7436.7	7652.7	8565.3	9868.9	10534.4	10487.7	9654.9	7139.0
27.5°	8872.7	8919.4	8728.7	8380.4	8172.2	8726.8	10213.3	11281.6	11279.6	10460.5	7514.6
30°	10067.4	10114.1	9919.5	9571.2	9092.6	9184.0	10511.0	12063.8	12075.4	11291.3	7913.4
32.5°	11320.5	11378.9	11178.4	10730.9	10230.9	9974.0	10929.4	12849.9	12916.0	12254.5	8362.9
35°	12744.8	12752.6	12470.4	12001.5	11425.6	11030.6	11600.7	13731.3	13888.9	13447.2	8933.0
37.5°	14141.8	14198.3	13966.7	13227.3	12698.1	12250.6	12598.9	14832.6	15056.4	14904.6	9678.3
40°	15177.0	15295.7	15262.6	14464.8	13962.8	13643.7	13838.3	16142.1	16426.2	16601.3	10618.1
42.5°	15826.9	15916.4	16068.2	15587.6	15132.2	15184.8	15301.5	17667.6	18017.8	18535.4	11698.0
45°	16572.1	16614.9	16741.4	16529.3	16221.9	16751.1	16854.3	19385.7	19753.4	20615.4	12896.6
47.5°	17482.7	17583.9	17618.9	17424.4	17284.3	18136.5	18350.5	20948.1	21463.8	22843.3	14165.2
50°	18642.4	18669.7	18730.0	18603.5	18463.4	19327.3	19693.1	22588.4	23057.4	25079.0	15416.3
52.5°	19776.8	19874.1	20084.2	20004.5	19948.0	20341.1	20889.8	24067.2	24590.6	26943.1	16665.5
55°	20103.7	20187.4	20913.1	21409.3	21868.5	21590.3	22033.9	25392.3	25958.5	28608.6	17868.0
57.5°	18798.1	18967.4	20224.3	21516.3	23421.2	23532.1	23606.1	26752.4	27260.2	29885.1	19119.1
60°	15498.0	15531.1	17593.6	19809.9	23164.4	25226.9	25902.1	28213.6	28639.8	31073.9	20617.4
62.5°	9857.3	10193.9	12456.8	15585.6	20448.1	24981.7	28678.7	30424.0	30579.7	32500.2	22765.5
65°	4695.1	4913.1	6543.6	9629.6	14811.2	21843.2	30595.3	34422.6	34492.6	35327.4	25635.5
67.5°	2599.5	2704.6	3481.0	5183.5	8658.7	15447.5	29820.9	39158.6	39224.8	38214.9	28153.3
69°	2033.3	2122.8	2733.8	3907.1	5870.4	11102.6	26985.9	40545.9	40742.5	39041.9	28242.8
70°	1725.9	1813.5	2354.4	3300.0	4720.4	8578.9	24020.5	40201.5	40409.7	38964.0	27575.4
72.5°	1056.6	1107.1	1568.3	2323.2	3163.8	4315.7	14813.1	33998.4	34350.6	35741.8	23699.5
75°	712.2	739.4	980.7	1603.3	2262.9	2222.1	7695.5	23964.1	24726.8	27803.1	17504.1
77.5°	509.8	535.1	657.7	1037.1	1585.8	1467.1	3484.9	14892.9	15056.4	16675.2	9545.9
80°	289.9	313.3	465.0	616.8	1076.0	978.7	1385.4	7113.7	7195.5	7150.7	3187.2
82.5°	151.8	171.2	254.9	406.7	690.7	640.2	575.9	2381.6	2393.3	1990.5	698.5
85°	29.2	35.0	126.5	278.2	356.1	278.2	235.4	558.4	570.1	504.0	173.2
87.5°	0.0	1.9	50.6	62.3	70.0	72.0	75.9	109.0	116.7	157.6	46.7
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°	4662.1	4662.1	4662.1	4662.1	4662.1	4662.1	4662.1	4662.1	4662.1	4662.1	4662.1
2.5°	4683.5	4613.4	4479.2	4323.5	4202.9	4084.2	3990.8	3893.5	3858.5	3840.9	3839.0
5°	4730.2	4582.3	4298.2	4006.3	3767.0	3541.3	3379.8	3226.1	3154.1	3121.0	3107.4
7.5°	4808.0	4570.6	4113.4	3667.8	3323.4	3041.2	2817.5	2650.1	2566.5	2531.4	2517.8
10°	4899.4	4555.0	3897.4	3309.8	2870.0	2578.1	2356.3	2190.9	2099.5	2060.6	2041.1
12.5°	5006.5	4527.8	3648.3	2947.8	2482.8	2190.9	1922.4	1718.1	1613.0	1568.3	1546.9
15°	5138.8	4500.6	3387.6	2607.3	2142.3	1786.2	1492.4	1354.3	1332.9	1325.1	1327.0
17.5°	5269.1	4457.8	3103.5	2270.7	1784.3	1395.1	1245.3	1237.5	1241.4	1241.4	1241.4
20°	5385.9	4360.5	2794.1	1982.7	1443.8	1177.2	1146.1	1132.4	1122.7	1114.9	1105.2
22.5°	5477.3	4230.1	2496.4	1696.7	1179.1	1078.0	1029.3	986.5	951.5	928.1	916.5
25°	5539.6	4056.9	2224.0	1422.4	1060.4	980.7	893.1	821.1	766.6	733.6	719.9
27.5°	5586.3	3870.1	1980.8	1190.8	978.7	867.8	753.0	667.4	611.0	581.8	570.1
30°	5619.4	3658.0	1766.8	1046.8	887.3	749.1	626.5	542.9	502.0	486.4	478.7
32.5°	5650.5	3422.6	1564.4	978.7	801.7	640.2	525.4	461.1	435.9	416.4	410.6
35°	5728.3	3204.7	1371.8	906.7	714.1	546.8	451.4	404.7	379.4	367.8	363.9
37.5°	5913.2	3043.2	1186.9	832.8	626.5	472.8	395.0	361.9	338.6	326.9	323.0
40°	6210.9	2961.5	1031.3	753.0	540.9	416.4	358.0	326.9	301.6	284.1	280.2
42.5°	6648.7	2973.1	922.3	673.2	472.8	371.6	323.0	286.0	258.8	243.2	239.3
45°	7179.9	3058.7	846.4	595.4	416.4	336.6	284.1	245.2	219.9	206.3	202.4
47.5°	7755.8	3196.9	784.1	525.4	371.6	303.5	245.2	204.3	182.9	171.2	169.3
50°	8362.9	3331.2	719.9	457.3	332.7	270.5	206.3	169.3	151.8	142.0	138.1
52.5°	8977.8	3486.8	661.6	395.0	299.6	231.5	171.2	138.1	124.5	116.7	112.9
55°	9639.3	3603.6	605.1	346.3	266.6	196.5	142.0	114.8	103.1	93.4	91.5
57.5°	10417.6	3784.5	546.8	299.6	227.7	163.4	116.7	91.5	81.7	72.0	70.0
60°	11468.4	3996.6	484.5	264.6	186.8	134.3	95.3	73.9	62.3	54.5	52.5
62.5°	12853.7	4232.0	406.7	231.5	151.8	109.0	75.9	58.4	44.8	35.0	35.0
65°	14610.8	4615.4	332.7	194.6	124.5	89.5	58.4	42.8	25.3	15.6	15.6
67.5°	15636.2	4681.5	268.5	159.6	101.2	75.9	48.6	29.2	7.8	1.9	0.0
69°	15307.4	4298.2	227.7	136.2	87.6	72.0	44.8	21.4	3.9	0.0	0.0
70°	14688.6	3930.5	200.4	120.6	79.8	68.1	42.8	15.6	3.9	0.0	0.0
72.5°	12137.7	2798.0	151.8	89.5	58.4	60.3	38.9	9.7	3.9	0.0	0.0
75°	8841.6	1700.6	109.0	62.3	37.0	44.8	27.2	3.9	1.9	0.0	0.0
77.5°	4918.9	801.7	68.1	35.0	23.3	27.2	13.6	0.0	0.0	0.0	0.0
80°	1597.5	217.9	31.1	19.5	13.6	15.6	5.8	0.0	0.0	0.0	0.0
82.5°	295.8	62.3	17.5	9.7	3.9	3.9	0.0	0.0	0.0	0.0	0.0
85°	64.2	25.3	9.7	3.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	21.4	7.8	1.9	0.0	0.0	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)