

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: P321943

Luminaire Tested: **GAN-SA9D-740-U-T2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321943
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-SA9D-740-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 4000K, 1200mA 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: 49347 lumens
Efficiency: N/A
Efficacy: 85.8 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G5

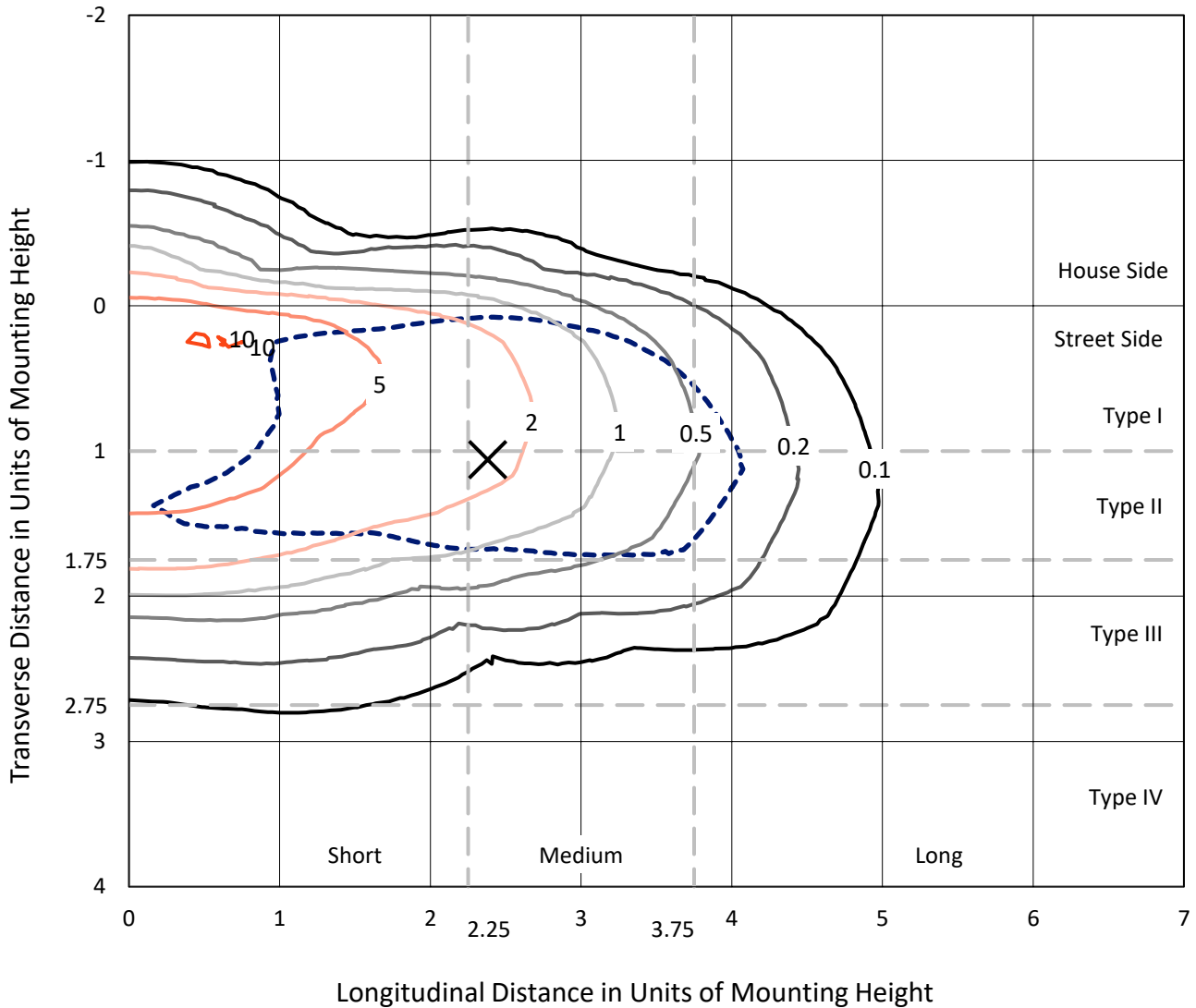
Input Watts (W): 575
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

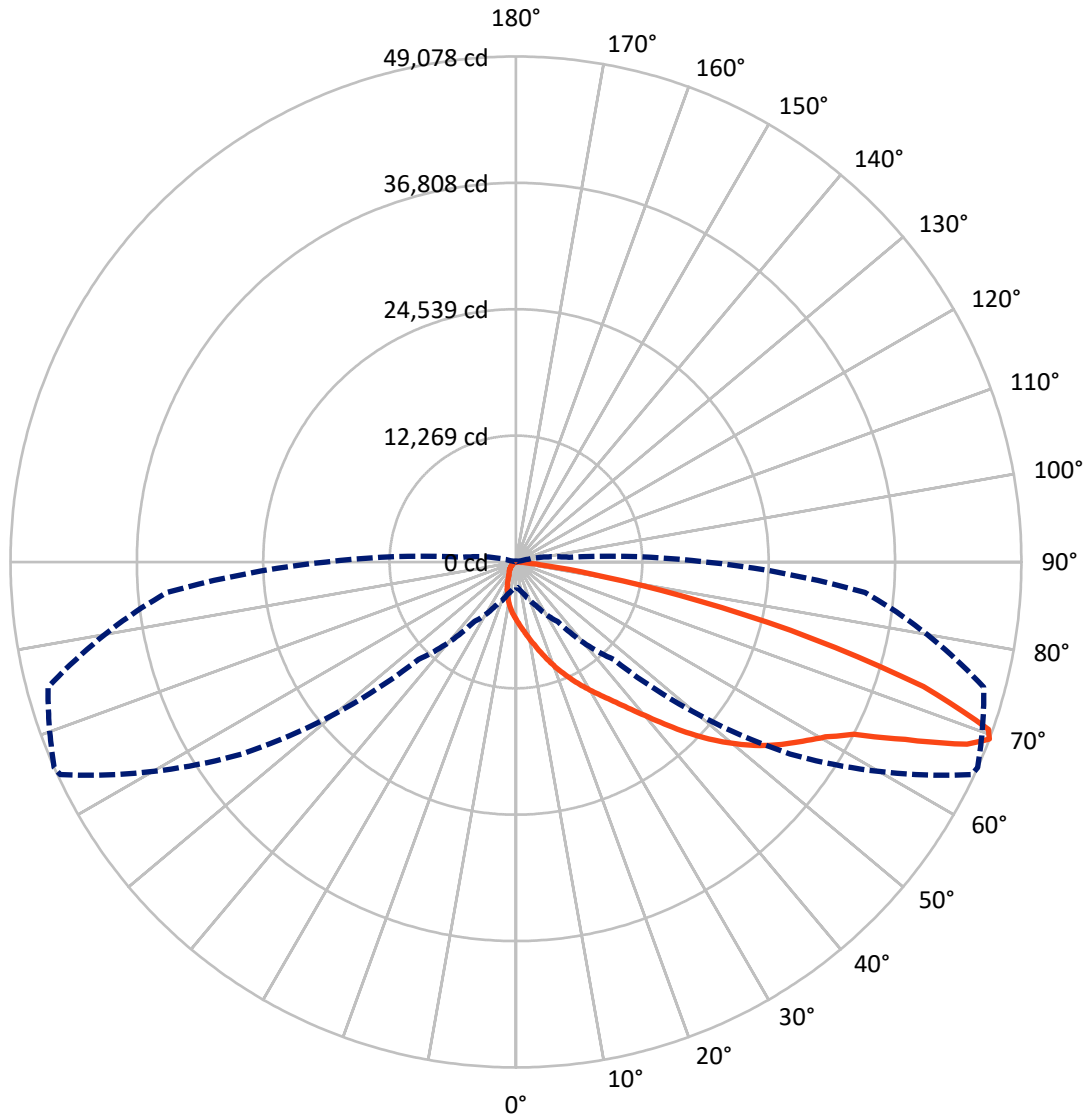
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 10.3 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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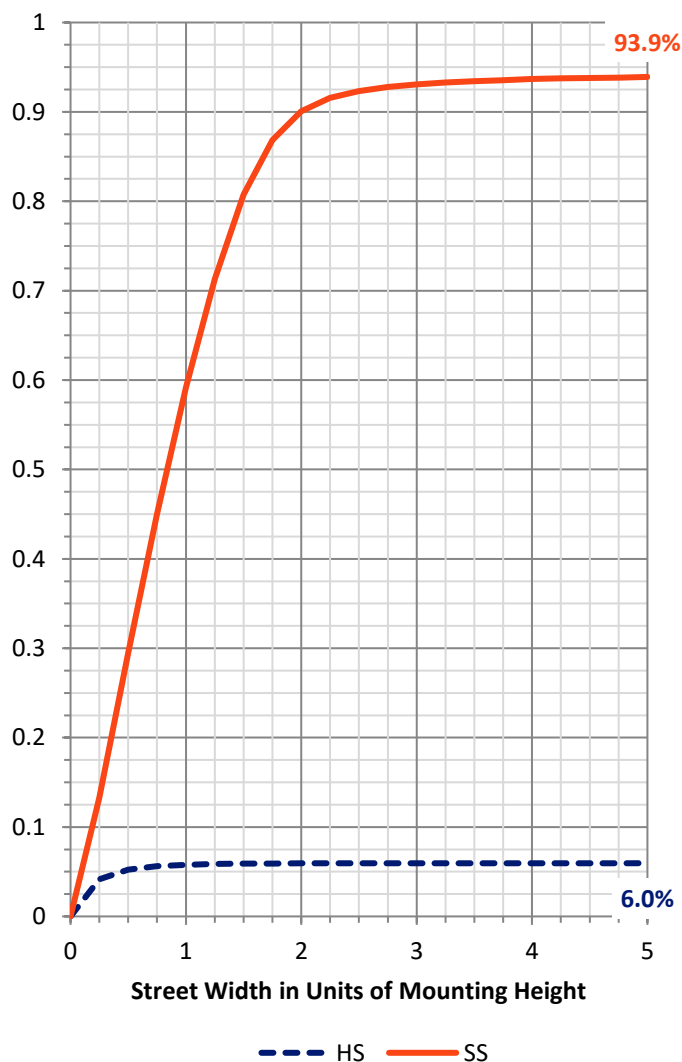
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2960.1	0.0	2960.1
	% Fixture	6.0	0.0	6.0
Street Side	Lumens	46386.9	0.0	46386.9
	% Fixture	94.0	0.0	94.0
Total	Lumens	49347.0	0.0	49347.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	542.8	1.1
10°-20°	1615.6	3.3
20°-30°	2813.4	5.7
30°-40°	4936.0	10.0
40°-50°	8262.2	16.7
50°-60°	12144.6	24.6
60°-70°	12469.5	25.3
70°-80°	6155.8	12.5
80°-90°	407.0	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°	49347.0	100.0
0°-180°	49347.0	100.0

Coefficient of Utilization



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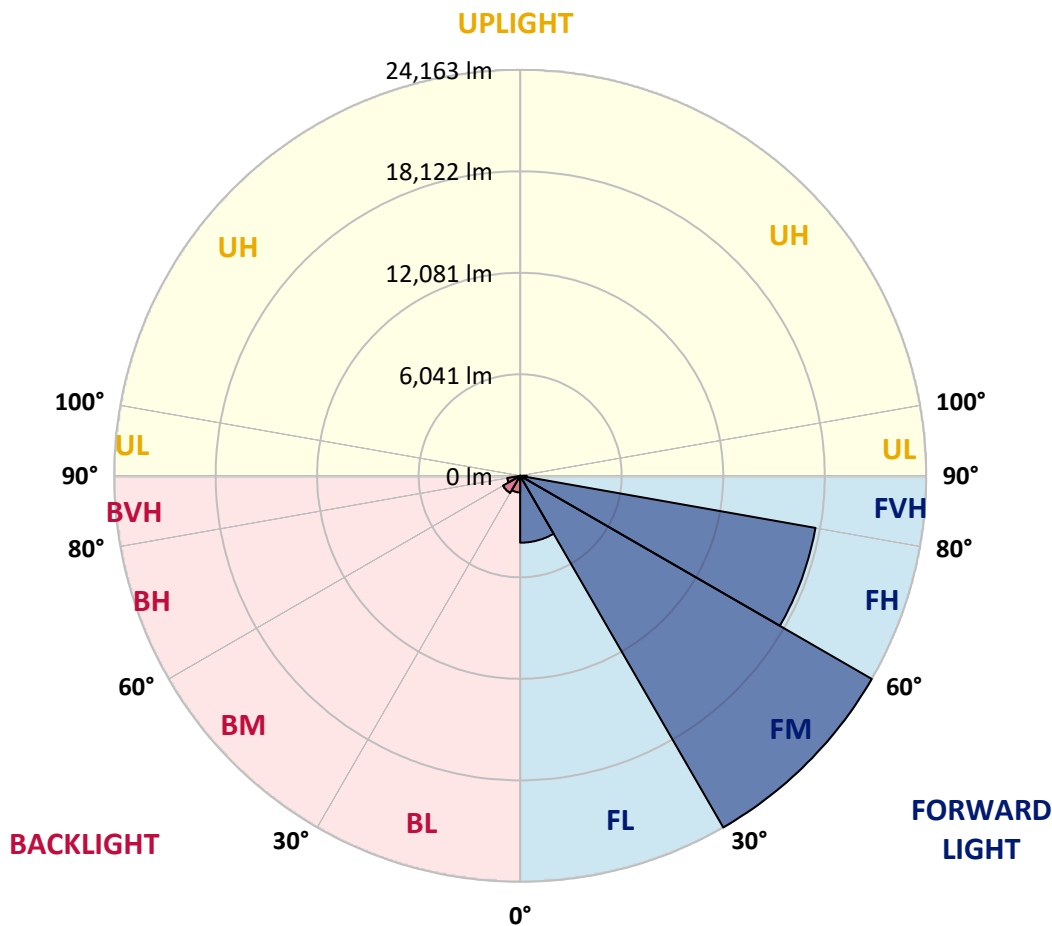
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3981.8	8.1			
FM (30°-60°)	24162.6	49.0			
FH (60°-80°)	17845.2	36.2			G5
FVH (80°-90°)	397.2	0.8			G3/500
BL (0°-30°)	990.0	2.0	B2/1000		
BM (30°-60°)	1180.2	2.4	B2/2500		
BH (60°-80°)	780.1	1.6	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: 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°	5615.8	5615.8	5615.8	5615.8	5615.8	5615.8	5615.8	5615.8	5615.8	5615.8	5615.8
2.5°	6609.6	6581.5	6569.8	6518.2	6429.2	6361.2	6229.9	6077.6	6049.5	5901.8	5721.3
5°	7467.5	7444.0	7427.6	7355.0	7263.6	7092.5	6853.4	6569.8	6515.9	6234.6	5873.7
7.5°	8065.2	8107.4	8107.4	8060.5	7945.6	7816.7	7523.7	7137.0	7069.0	6637.8	6077.6
10°	8414.4	8466.0	8505.8	8545.7	8529.2	8477.7	8201.1	7765.2	7683.1	7111.2	6314.3
12.5°	8447.2	8498.8	8611.3	8777.7	8939.4	9056.6	8883.2	8461.3	8367.5	7659.7	6595.6
15°	8264.4	8318.3	8491.7	8815.2	9206.6	9548.8	9605.1	9232.4	9136.3	8313.6	6947.1
17.5°	7945.6	7980.8	8229.2	8676.9	9291.0	9919.1	10259.0	10059.8	9970.7	9061.3	7338.6
20°	7708.9	7734.7	7952.7	8433.1	9239.4	10151.2	10877.8	10938.7	10845.0	9862.9	7762.8
22.5°	8114.4	8161.3	8168.3	8395.6	9098.8	10266.0	11421.5	11803.6	11733.3	10713.7	8180.0
25°	9223.0	9276.9	9098.8	8958.2	9218.3	10317.6	11888.0	12689.6	12633.3	11630.1	8599.6
27.5°	10687.9	10744.2	10514.5	10094.9	9844.1	10512.1	12302.8	13589.6	13587.3	12600.5	9051.9
30°	12127.0	12183.3	11948.9	11529.4	10952.8	11062.9	12661.4	14531.8	14545.9	13601.3	9532.4
32.5°	13636.5	13706.8	13465.4	12926.3	12323.9	12014.5	13165.4	15478.7	15558.4	14761.5	10073.8
35°	15352.2	15361.5	15021.7	14456.8	13763.0	13287.2	13974.0	16540.5	16730.3	16198.3	10760.6
37.5°	17035.0	17103.0	16824.1	15933.4	15295.9	14756.8	15176.4	17867.1	18136.7	17953.8	11658.3
40°	18282.0	18424.9	18385.1	17424.1	16819.4	16435.0	16669.4	19444.5	19786.7	19997.7	12790.3
42.5°	19064.8	19172.6	19355.5	18776.5	18228.1	18291.3	18432.0	21282.1	21704.0	22327.4	14091.2
45°	19962.5	20014.1	20166.4	19910.9	19540.6	20178.1	20302.4	23351.7	23794.7	24833.0	15535.0
47.5°	21059.4	21181.3	21223.5	20989.1	20820.4	21847.0	22104.8	25233.8	25854.9	27516.7	17063.2
50°	22456.4	22489.2	22561.8	22409.5	22240.7	23281.4	23722.0	27209.7	27774.5	30209.8	18570.3
52.5°	23822.8	23940.0	24193.1	24097.0	24029.1	24502.5	25163.5	28991.0	29621.5	32455.2	20075.0
55°	24216.6	24317.4	25191.6	25789.3	26342.4	26007.3	26541.7	30587.1	31269.2	34461.5	21523.5
57.5°	22643.9	22847.8	24361.9	25918.2	28212.8	28346.4	28435.5	32225.5	32837.2	35999.1	23030.6
60°	18668.7	18708.6	21193.0	23862.7	27903.4	30387.9	31201.2	33985.7	34499.0	37431.2	24835.4
62.5°	11873.9	12279.4	15005.3	18774.2	24631.4	30092.6	34545.9	36648.3	36835.8	39149.2	27423.0
65°	5655.7	5918.2	7882.3	11599.7	17841.3	26312.0	36854.6	41464.9	41549.3	42554.8	30880.1
67.5°	3131.4	3257.9	4193.1	6244.0	10430.1	18607.8	35921.7	47169.8	47249.5	46033.1	33913.1
69°	2449.3	2557.1	3293.1	4706.4	7071.4	13374.0	32506.8	48841.0	49077.7	47029.2	34020.9
70°	2079.0	2184.5	2836.0	3975.2	5686.2	10334.0	28934.7	48426.1	48676.9	46935.4	33216.9
72.5°	1272.7	1333.6	1889.1	2798.5	3811.1	5198.6	17843.7	40954.0	41378.2	43054.0	28548.0
75°	857.8	890.7	1181.3	1931.3	2725.9	2676.7	9269.9	28866.8	29785.6	33491.2	21085.2
77.5°	614.1	644.6	792.2	1249.3	1910.2	1767.3	4197.8	17939.8	18136.7	20086.7	11498.9
80°	349.2	377.4	560.2	743.0	1296.1	1179.0	1668.8	8569.1	8667.5	8613.6	3839.2
82.5°	182.8	206.3	307.0	489.9	832.1	771.1	693.8	2868.9	2882.9	2397.8	841.4
85°	35.2	42.2	152.3	335.2	428.9	335.2	283.6	672.7	686.7	607.1	208.6
87.5°	0.0	2.3	60.9	75.0	84.4	86.7	91.4	131.3	140.6	189.9	56.3
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°	5615.8	5615.8	5615.8	5615.8	5615.8	5615.8	5615.8	5615.8	5615.8	5615.8	5615.8
2.5°	5641.6	5557.3	5395.5	5208.0	5062.7	4919.7	4807.2	4690.0	4647.8	4626.7	4624.4
5°	5697.9	5519.7	5177.5	4826.0	4537.7	4265.8	4071.3	3886.1	3799.4	3759.5	3743.1
7.5°	5791.6	5505.7	4954.9	4418.1	4003.3	3663.4	3393.9	3192.3	3091.5	3049.3	3032.9
10°	5901.8	5486.9	4694.7	3986.9	3457.2	3105.6	2838.4	2639.2	2529.0	2482.1	2458.7
12.5°	6030.7	5454.1	4394.7	3550.9	2990.7	2639.2	2315.7	2069.6	1943.0	1889.1	1863.4
15°	6190.1	5421.3	4080.6	3140.7	2580.6	2151.6	1797.7	1631.3	1605.5	1596.2	1598.5
17.5°	6347.1	5369.7	3738.4	2735.3	2149.3	1680.5	1500.1	1490.7	1495.4	1495.4	1495.4
20°	6487.8	5252.6	3365.8	2388.4	1739.1	1418.0	1380.5	1364.1	1352.4	1343.0	1331.3
22.5°	6597.9	5095.5	3007.2	2043.8	1420.4	1298.5	1239.9	1188.3	1146.1	1118.0	1103.9
25°	6672.9	4886.9	2679.0	1713.3	1277.4	1181.3	1075.8	989.1	923.5	883.6	867.2
27.5°	6729.2	4661.9	2386.0	1434.4	1179.0	1045.4	907.1	803.9	736.0	700.8	686.7
30°	6769.0	4406.4	2128.2	1261.0	1068.8	902.4	754.7	653.9	604.7	586.0	576.6
32.5°	6806.5	4122.8	1884.4	1179.0	965.7	771.1	632.8	555.5	525.0	501.6	494.6
35°	6900.3	3860.3	1652.4	1092.2	860.2	658.6	543.8	487.5	457.0	443.0	438.3
37.5°	7122.9	3665.8	1429.7	1003.2	754.7	569.6	475.8	436.0	407.8	393.8	389.1
40°	7481.5	3567.3	1242.2	907.1	651.6	501.6	431.3	393.8	363.3	342.2	337.5
42.5°	8008.9	3581.4	1111.0	811.0	569.6	447.7	389.1	344.5	311.7	293.0	288.3
45°	8648.8	3684.5	1019.6	717.2	501.6	405.5	342.2	295.3	264.9	248.4	243.8
47.5°	9342.6	3850.9	944.6	632.8	447.7	365.6	295.3	246.1	220.3	206.3	203.9
50°	10073.8	4012.7	867.2	550.8	400.8	325.8	248.4	203.9	182.8	171.1	166.4
52.5°	10814.5	4200.2	796.9	475.8	361.0	278.9	206.3	166.4	150.0	140.6	135.9
55°	11611.4	4340.8	728.9	417.2	321.1	236.7	171.1	138.3	124.2	112.5	110.2
57.5°	12548.9	4558.8	658.6	361.0	274.2	196.9	140.6	110.2	98.4	86.7	84.4
60°	13814.6	4814.3	583.6	318.8	225.0	161.7	114.8	89.1	75.0	65.6	63.3
62.5°	15483.4	5097.9	489.9	278.9	182.8	131.3	91.4	70.3	53.9	42.2	42.2
65°	17599.9	5559.6	400.8	234.4	150.0	107.8	70.3	51.6	30.5	18.8	18.8
67.5°	18835.1	5639.3	323.5	192.2	121.9	91.4	58.6	35.2	9.4	2.3	0.0
69°	18439.0	5177.5	274.2	164.1	105.5	86.7	53.9	25.8	4.7	0.0	0.0
70°	17693.7	4734.6	241.4	145.3	96.1	82.0	51.6	18.8	4.7	0.0	0.0
72.5°	14620.9	3370.4	182.8	107.8	70.3	72.7	46.9	11.7	4.7	0.0	0.0
75°	10650.4	2048.5	131.3	75.0	44.5	53.9	32.8	4.7	2.3	0.0	0.0
77.5°	5925.2	965.7	82.0	42.2	28.1	32.8	16.4	0.0	0.0	0.0	0.0
80°	1924.3	262.5	37.5	23.4	16.4	18.8	7.0	0.0	0.0	0.0	0.0
82.5°	356.3	75.0	21.1	11.7	4.7	4.7	0.0	0.0	0.0	0.0	0.0
85°	77.3	30.5	11.7	4.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	25.8	9.4	2.3	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)