

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: P323193

Luminaire Tested: **GAN-SA9A-740-U-SL2-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P323193  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-21)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA9A-740-U-SL2-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL  
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

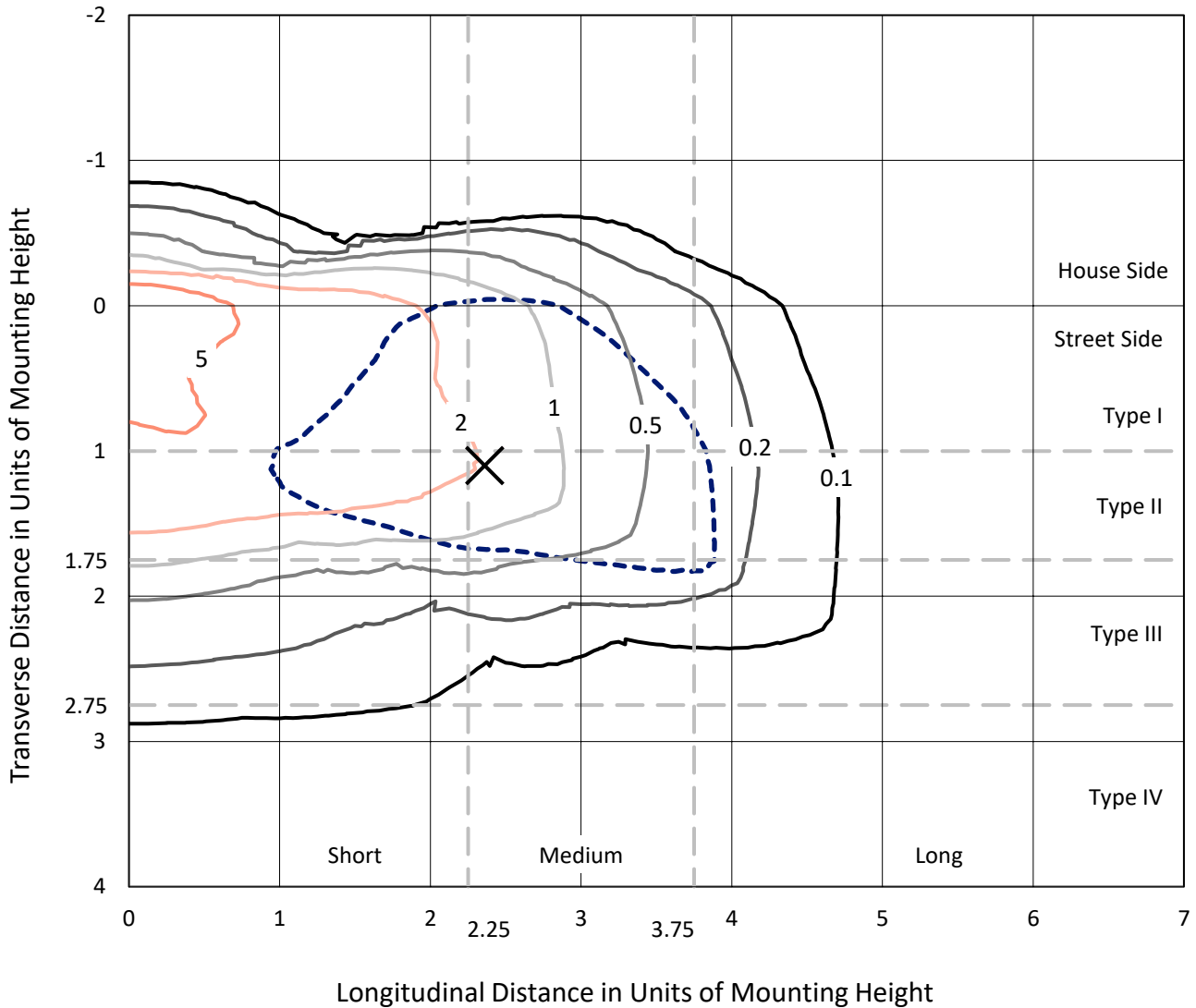
Lumens per Lamp: N/A  
Luminaire Lumens: 34507 lumens  
Efficiency: N/A  
Efficacy: 119.0 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G5  
  
Input Watts (W): 290  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

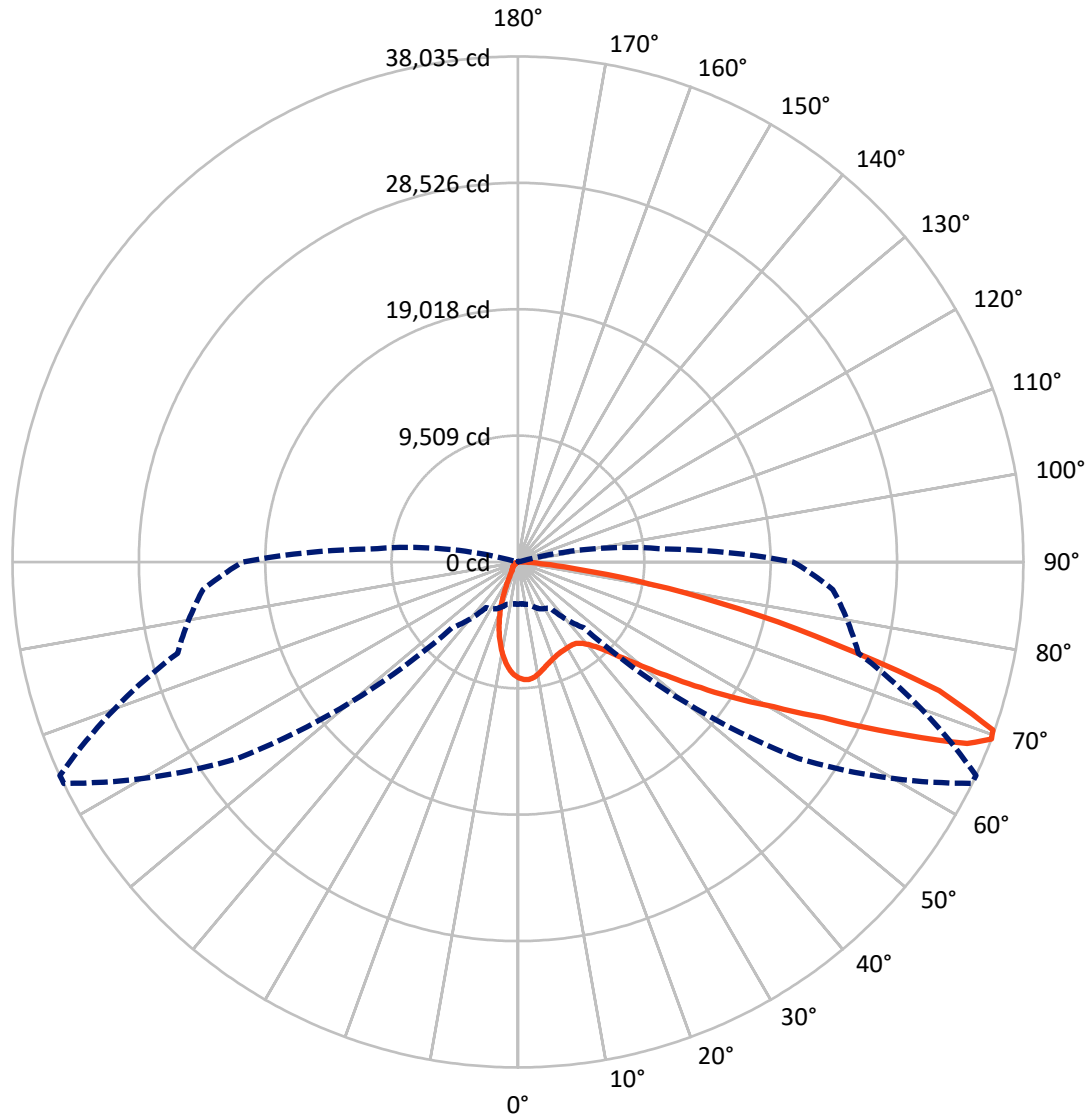
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 9.7 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral      - - - Horizontal Cone Through 69-Deg Vertical

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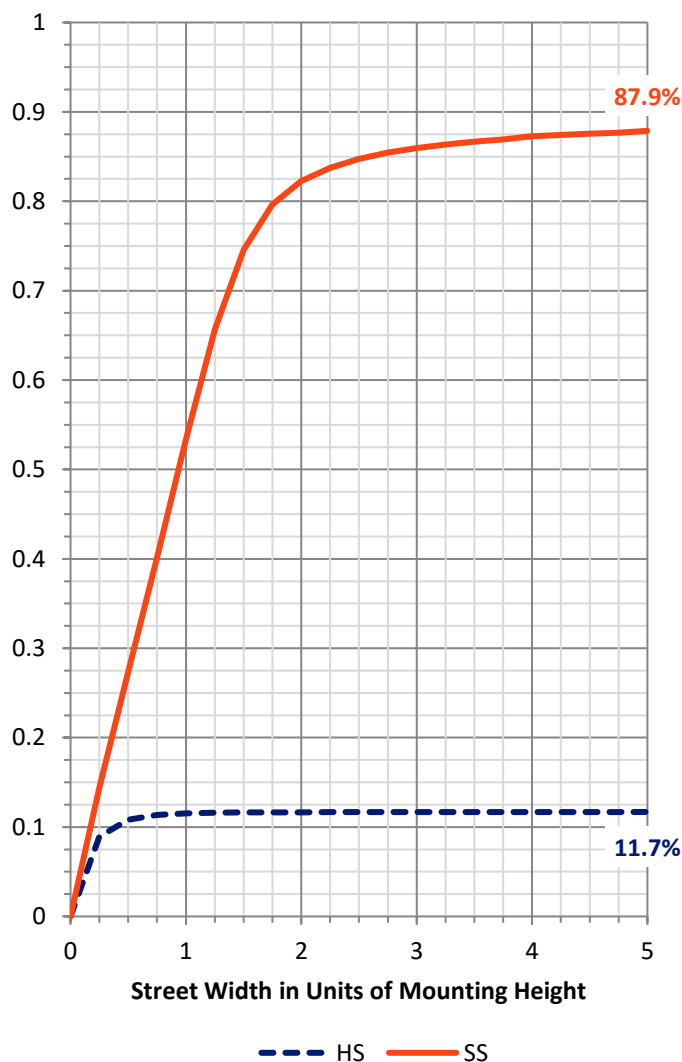
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4067.6	0.0	4067.6
	% Fixture	11.8	0.0	11.8
<b>Street Side</b>	Lumens	30439.4	0.0	30439.4
	% Fixture	88.2	0.0	88.2
<b>Total</b>	Lumens	34507.0	0.0	34507.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	729.2	2.1
10°-20°	1596.2	4.6
20°-30°	2210.8	6.4
30°-40°	3082.5	8.9
40°-50°	4791.3	13.9
50°-60°	7691.8	22.3
60°-70°	8700.8	25.2
70°-80°	5110.0	14.8
80°-90°	594.4	1.7
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°	34507.0	100.0
0°-180°	34507.0	100.0

**Coefficient of Utilization**

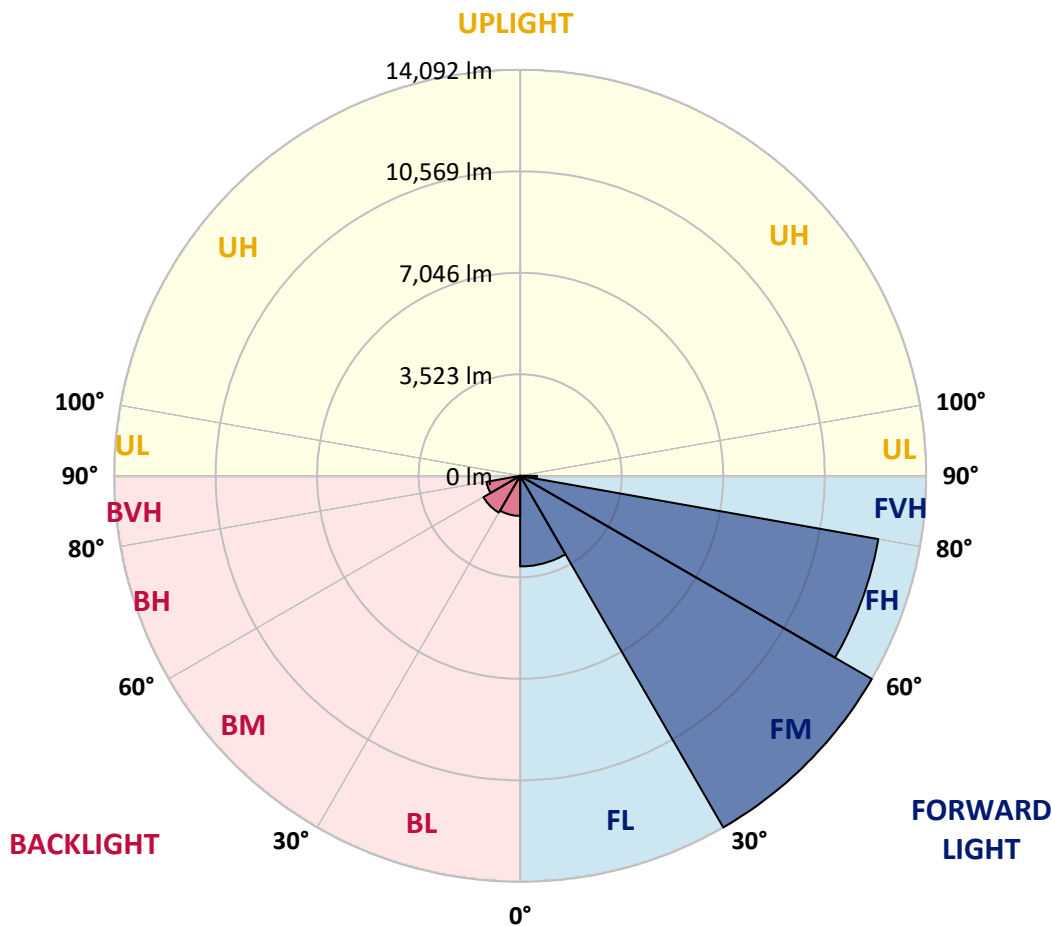


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3144.4	9.1			
FM (30°-60°)	14091.7	40.8			
FH (60°-80°)	12622.3	36.6			G5
FVH (80°-90°)	581.1	1.7			G4/750
BL (0°-30°)	1391.7	4.0	B3/2500		
BM (30°-60°)	1474.0	4.3	B2/2500		
BH (60°-80°)	1188.5	3.4	B3/2500		G3/2500
BVH (80°-90°)	13.4	0.0			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°	64°	65°	75°	85°
0°	8720.0	8720.0	8720.0	8720.0	8720.0	8720.0	8720.0	8720.0	8720.0	8720.0	8720.0
2.5°	8797.4	8775.5	8793.0	8831.0	8849.9	8849.9	8864.5	8847.0	8852.9	8810.5	8749.2
5°	8246.9	8213.3	8261.5	8368.1	8499.5	8611.9	8778.4	8866.0	8874.8	8876.2	8804.7
7.5°	7654.1	7623.4	7695.0	7820.5	7989.9	8198.7	8489.3	8743.3	8757.9	8895.2	8842.6
10°	7172.2	7150.3	7233.6	7367.9	7566.5	7800.1	8156.4	8509.7	8552.1	8855.8	8836.8
12.5°	6789.7	6772.1	6851.0	7005.8	7208.7	7467.2	7839.5	8249.8	8306.8	8766.7	8807.6
15°	6510.8	6507.9	6573.6	6722.5	6947.4	7188.3	7569.4	8008.9	8074.6	8670.3	8803.2
17.5°	6364.8	6369.1	6417.3	6544.4	6737.1	6976.6	7341.6	7805.9	7877.5	8584.2	8825.1
20°	6350.2	6354.5	6380.8	6452.4	6608.6	6820.3	7156.2	7635.1	7709.6	8519.9	8860.2
22.5°	6478.7	6475.7	6483.0	6475.7	6563.3	6724.0	7033.5	7503.7	7589.8	8477.6	8887.9
25°	6725.4	6721.0	6718.1	6664.1	6605.7	6691.8	6982.4	7429.2	7511.0	8446.9	8904.0
27.5°	7068.6	7065.6	7061.3	6972.2	6797.0	6742.9	6988.2	7401.5	7470.1	8422.1	8901.0
30°	7519.7	7540.2	7534.3	7410.2	7137.2	6899.2	7049.6	7386.9	7446.7	8373.9	8870.4
32.5°	8049.8	8090.7	8122.8	7989.9	7648.2	7208.7	7191.2	7402.9	7446.7	8337.4	8814.9
35°	8600.2	8652.8	8771.1	8724.4	8274.6	7674.5	7435.1	7499.3	7535.8	8357.9	8788.6
37.5°	9142.0	9204.7	9461.7	9597.5	9095.2	8290.7	7814.7	7737.3	7756.3	8482.0	8817.8
40°	9771.3	9866.2	10256.1	10475.1	10075.0	9115.7	8382.7	8146.1	8153.4	8755.0	8953.6
42.5°	10597.7	10695.6	11117.5	11460.7	11178.9	10158.2	9153.6	8771.1	8763.8	9266.1	9273.4
45°	11605.2	11707.4	12144.0	12525.1	12398.1	11393.5	10140.7	9683.7	9674.9	10072.1	9879.3
47.5°	12747.1	12847.8	13237.7	13630.4	13767.7	12836.1	11397.9	10929.2	10908.7	11192.0	10815.3
50°	13726.8	13792.5	14151.7	14680.3	15299.4	14608.7	12961.7	12510.5	12488.6	12679.9	12189.3
52.5°	14083.1	14121.1	14486.1	15226.4	16771.2	17009.2	15016.1	14435.0	14418.9	14502.1	14018.8
55°	13361.8	13430.4	13878.7	14976.7	17568.5	19722.2	17609.3	16817.9	16696.7	16517.1	15931.6
57.5°	11396.4	11505.9	11987.8	13447.9	17196.1	21874.4	21420.3	19513.4	19335.2	18237.2	17486.7
60°	8538.9	8673.3	9073.3	10648.8	15208.9	22641.0	25584.6	22516.9	22115.3	19606.8	18916.2
62.5°	5859.6	5926.7	6198.3	7224.8	11200.8	21385.3	29068.5	26539.6	25806.6	21096.2	20462.5
65°	4475.3	4498.7	4609.7	4963.0	6669.9	17371.3	30454.2	31847.2	30960.9	22877.5	22067.2
67.5°	3606.6	3587.6	3740.9	4246.1	4466.6	10597.7	28837.8	36868.6	36454.0	25259.0	23682.1
69°	3180.2	3153.9	3310.1	3897.1	4195.0	7005.8	25780.3	38009.0	38035.3	26516.2	23793.0
70°	2861.9	2879.4	3034.2	3689.8	4103.0	5498.9	22860.0	37718.4	37925.8	26986.4	23127.2
72.5°	1911.3	1958.1	2269.1	3063.4	3945.3	4161.4	13802.7	32367.0	33164.2	25927.8	19841.9
75°	1077.6	1112.6	1482.0	2309.9	3717.5	3962.8	7290.5	23845.6	24616.6	21681.7	15300.8
77.5°	528.6	547.6	838.1	1490.8	3108.6	3775.9	4135.1	16197.4	17077.8	14151.7	8654.3
80°	223.4	233.6	419.1	919.9	2222.3	3603.6	3070.7	9968.4	10077.9	5544.2	2305.6
82.5°	86.1	89.1	176.7	573.8	1412.0	2809.3	2568.4	4726.5	4612.6	1044.0	525.7
85°	10.2	11.7	64.2	344.6	785.6	1445.5	2086.5	2036.9	1885.0	207.3	270.1
87.5°	0.0	0.0	4.4	105.1	233.6	677.5	1084.9	845.4	762.2	67.2	140.2
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°	8720.0	8720.0	8720.0	8720.0	8720.0	8720.0	8720.0	8720.0	8720.0	8720.0	8720.0
2.5°	8698.1	8683.5	8604.6	8490.7	8382.7	8248.4	8119.9	8042.5	7981.1	7940.3	7988.4
5°	8721.4	8657.2	8417.7	8111.1	7810.3	7471.6	7156.2	6889.0	6783.8	6667.0	6719.6
7.5°	8714.1	8592.9	8162.2	7616.1	7064.2	6493.3	5953.0	5536.9	5320.8	5109.0	5163.1
10°	8677.6	8473.2	7820.5	7011.6	6185.2	5364.6	4598.0	4015.4	3689.8	3394.8	3437.2
12.5°	8597.3	8312.6	7417.5	6319.5	5214.2	4132.2	3234.2	2488.1	2088.0	1911.3	1933.2
15°	8549.1	8156.4	6991.2	5618.6	4177.5	2877.9	1977.0	1470.4	1287.8	1229.4	1236.7
17.5°	8525.8	8006.0	6550.2	4817.0	3117.4	1832.5	1277.6	1127.2	1087.8	1077.6	1080.5
20°	8502.4	7854.1	6096.1	4024.2	2147.9	1232.4	1049.8	1006.0	991.4	978.3	981.2
22.5°	8463.0	7708.1	5608.4	3221.1	1448.5	1000.2	946.2	903.8	873.2	857.1	860.0
25°	8414.8	7554.8	5110.5	2399.0	1057.1	892.1	841.0	781.2	744.7	715.5	716.9
27.5°	8337.4	7366.4	4596.5	1746.3	887.8	798.7	730.1	664.4	603.0	569.5	569.5
30°	8229.4	7153.2	4025.6	1249.9	795.8	706.7	623.5	541.7	476.0	445.3	442.4
32.5°	8109.6	6931.3	3448.9	947.6	722.8	620.6	525.7	439.5	381.1	356.3	354.8
35°	8007.4	6691.8	2873.6	794.3	649.8	537.3	433.7	360.7	313.9	293.5	292.0
37.5°	7941.7	6452.4	2312.9	709.6	584.1	459.9	363.6	297.9	264.3	248.2	246.8
40°	7931.5	6274.2	1800.4	645.4	522.7	391.3	303.7	252.6	221.9	204.4	203.0
42.5°	8064.4	6172.0	1381.3	591.4	459.9	331.5	258.4	216.1	184.0	166.5	165.0
45°	8413.3	6204.2	1063.0	543.2	397.2	280.3	219.0	179.6	150.4	137.3	134.3
47.5°	9050.0	6426.1	845.4	495.0	337.3	238.0	186.9	148.9	124.1	111.0	109.5
50°	10183.0	6947.4	706.7	442.4	281.8	203.0	154.8	121.2	100.7	89.1	87.6
52.5°	11687.0	7876.0	630.8	391.3	233.6	172.3	127.0	96.4	78.8	70.1	68.6
55°	13345.7	9000.3	581.1	335.8	191.3	143.1	100.7	75.9	61.3	54.0	51.1
57.5°	14965.0	9974.2	534.4	281.8	159.2	116.8	80.3	59.9	48.2	40.9	39.4
60°	16452.9	10869.3	480.4	226.3	130.0	92.0	62.8	46.7	38.0	30.7	30.7
62.5°	18045.9	11561.4	405.9	176.7	106.6	70.1	51.1	42.3	30.7	26.3	24.8
65°	19733.8	12075.4	318.3	137.3	83.2	52.6	42.3	43.8	24.8	19.0	17.5
67.5°	20980.8	11973.2	235.1	108.1	64.2	40.9	40.9	46.7	21.9	14.6	13.1
69°	20706.3	11142.4	197.1	93.4	55.5	35.0	38.0	46.7	20.4	13.1	11.7
70°	19910.5	10222.5	173.8	83.2	49.6	32.1	36.5	45.3	19.0	13.1	11.7
72.5°	16581.4	7699.3	135.8	62.8	39.4	26.3	30.7	39.4	19.0	13.1	10.2
75°	12472.5	4928.0	103.7	45.3	29.2	20.4	23.4	29.2	19.0	11.7	10.2
77.5°	6786.7	1777.0	74.5	30.7	20.4	16.1	16.1	21.9	17.5	8.8	5.8
80°	1744.9	446.8	46.7	20.4	16.1	11.7	10.2	14.6	10.2	1.5	0.0
82.5°	430.7	100.7	24.8	14.6	11.7	4.4	4.4	7.3	4.4	0.0	0.0
85°	236.5	49.6	16.1	10.2	5.8	0.0	0.0	1.5	0.0	0.0	0.0
87.5°	121.2	14.6	4.4	2.9	1.5	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)