

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: P317753

Luminaire Tested: **GAN-SA9A-740-U-T3R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317753
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-10)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA9A-740-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 42598 lumens
Efficiency: N/A
Efficacy: 146.9 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G5

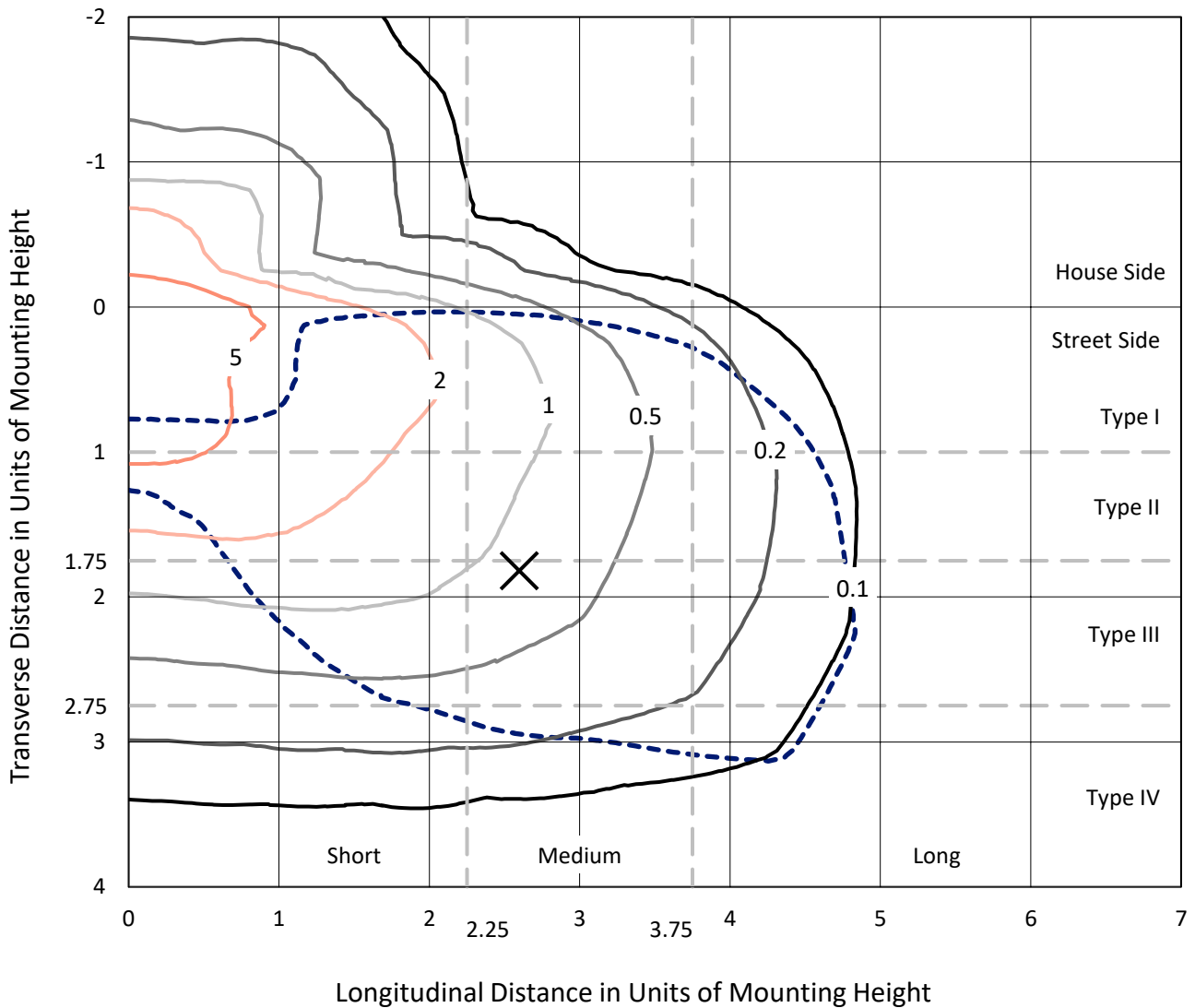
Input Watts (W): 290
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

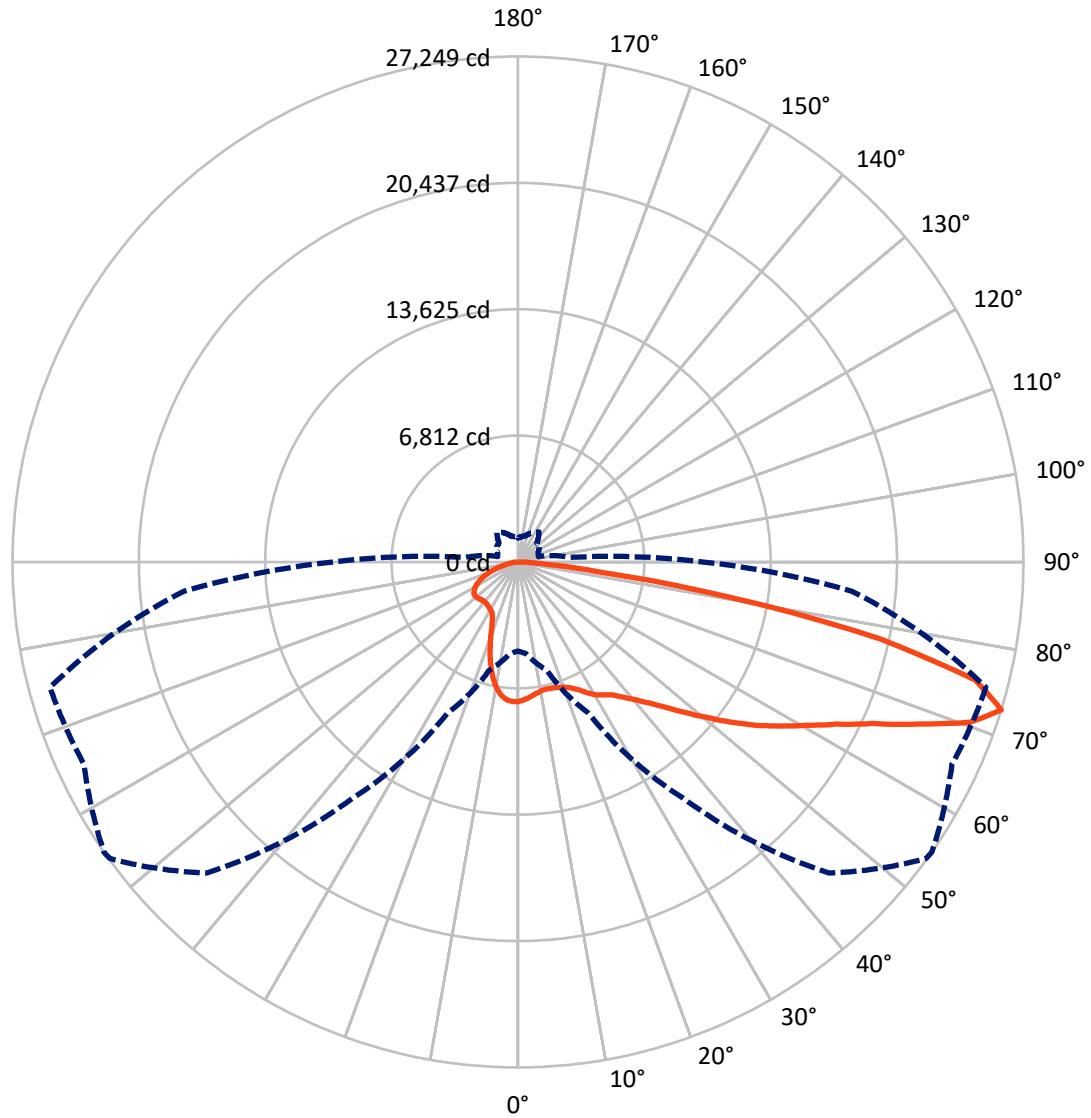
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8.4 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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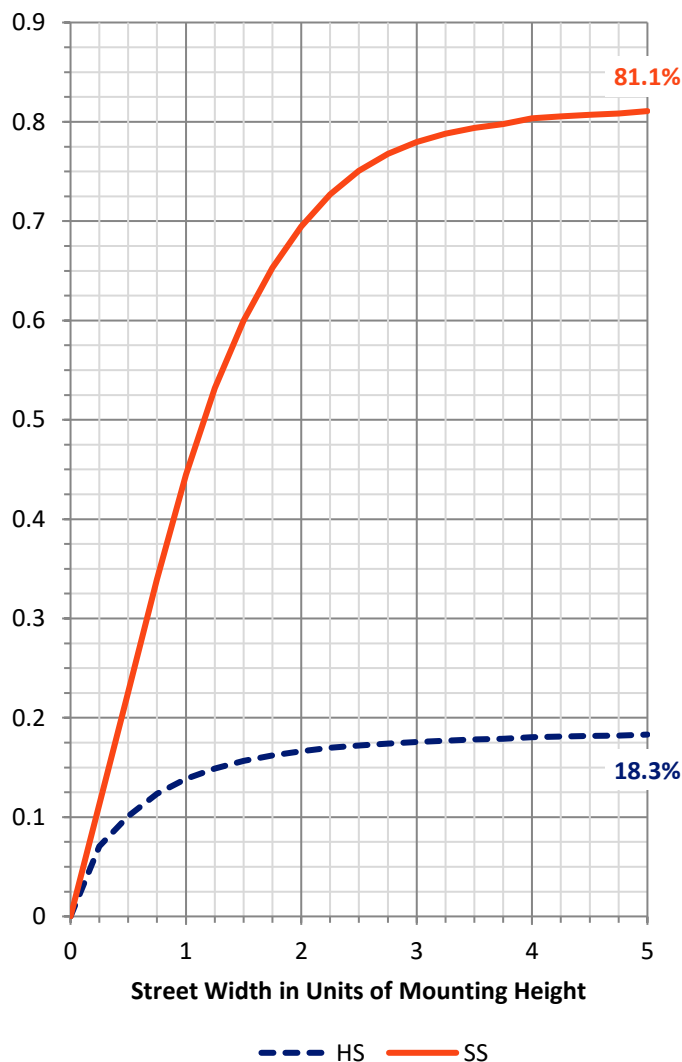
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7917.6	0.0	7917.6
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	34680.4	0.0	34680.4
	% Fixture	81.4	0.0	81.4
Total	Lumens	42598.0	0.0	42598.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	679.9	1.6
10°-20°	1810.1	4.2
20°-30°	2984.4	7.0
30°-40°	4414.6	10.4
40°-50°	6161.9	14.5
50°-60°	8022.9	18.8
60°-70°	9860.0	23.1
70°-80°	7729.0	18.1
80°-90°	935.3	2.2
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°	42598.0	100.0
0°-180°	42598.0	100.0

Coefficient of Utilization



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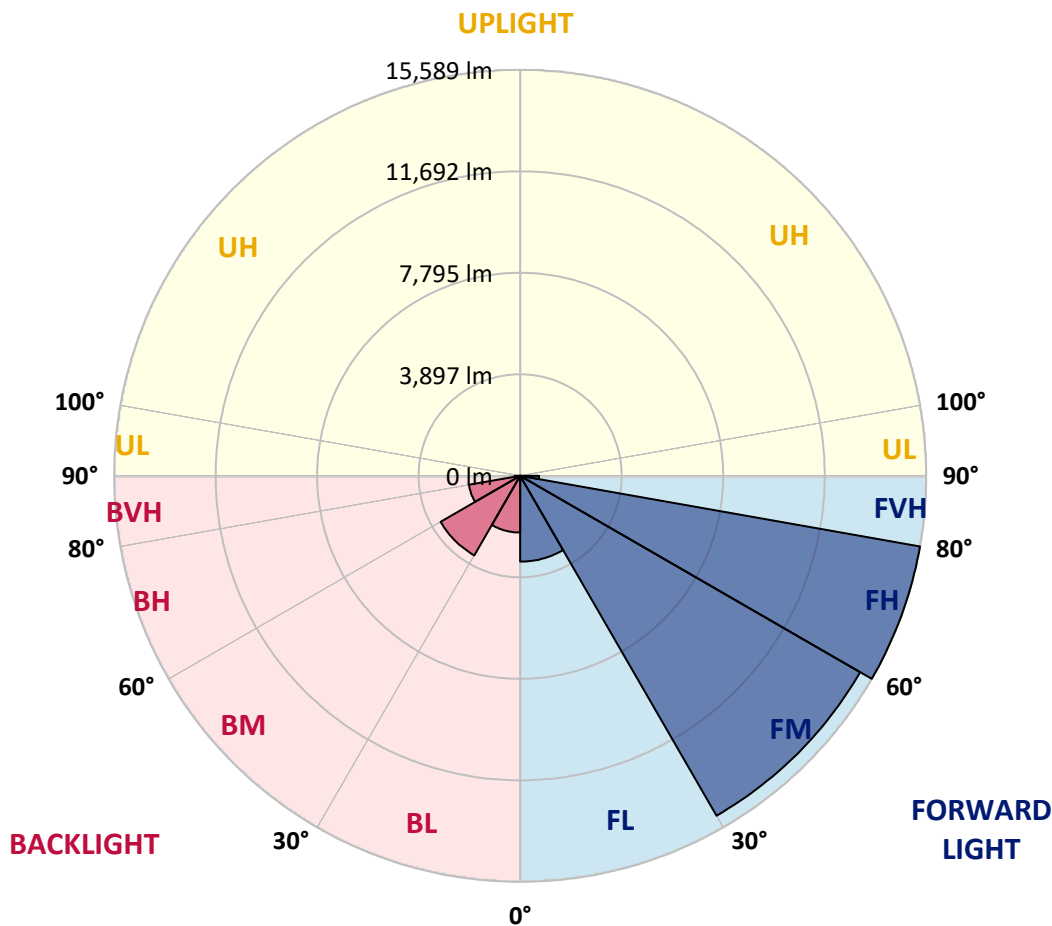
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3295.8	7.7			
FM (30°-60°)	15072.0	35.4			
FH (60°-80°)	15589.4	36.6			G5
FVH (80°-90°)	723.1	1.7			G4/750
BL (0°-30°)	2178.5	5.1	B3/2500		
BM (30°-60°)	3527.4	8.3	B3/5000		
BH (60°-80°)	1999.6	4.7	B3/2500		G3/2500
BVH (80°-90°)	212.2	0.5			G2/225
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 Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	7513.4	7513.4	7513.4	7513.4	7513.4	7513.4	7513.4	7513.4	7513.4	7513.4	7513.4
2.5°	7268.8	7251.5	7273.1	7303.3	7336.4	7381.0	7406.9	7418.4	7463.0	7480.3	7517.7
5°	6932.1	6923.5	6959.4	7011.2	7084.6	7188.2	7271.7	7287.5	7405.5	7488.9	7565.2
7.5°	6687.5	6687.5	6729.2	6791.1	6873.1	7012.7	7130.7	7152.2	7352.2	7532.1	7673.1
10°	6493.3	6500.5	6549.4	6622.8	6719.2	6867.4	7024.2	7048.6	7337.8	7632.8	7857.2
12.5°	6363.8	6381.0	6425.6	6491.8	6611.2	6791.1	6989.7	7022.7	7368.1	7776.7	8078.8
15°	6445.8	6474.6	6478.9	6506.2	6572.4	6768.1	7009.8	7044.3	7432.8	7923.4	8330.6
17.5°	6805.5	6815.6	6771.0	6713.4	6681.7	6806.9	7070.2	7106.2	7510.5	8068.7	8572.3
20°	7352.2	7346.5	7250.1	7094.7	6933.5	6953.7	7169.5	7206.9	7615.5	8196.8	8814.0
22.5°	8042.8	8022.7	7874.5	7588.2	7313.4	7198.3	7343.6	7375.2	7773.8	8379.5	9073.0
25°	8880.2	8835.6	8639.9	8255.8	7851.5	7555.1	7605.5	7635.7	8004.0	8583.8	9310.4
27.5°	9763.6	9719.0	9470.1	9005.4	8467.3	8005.4	7966.6	7992.5	8265.9	8734.9	9486.0
30°	10687.3	10639.9	10412.5	9891.7	9120.5	8471.6	8303.3	8313.3	8450.0	8816.9	9629.8
32.5°	11615.4	11570.8	11316.1	10711.8	9829.8	8972.3	8546.4	8533.5	8560.8	8901.8	9792.4
35°	12556.3	12573.6	12275.8	11606.7	10615.4	9529.1	8834.2	8806.8	8746.4	9075.9	10022.6
37.5°	13563.5	13552.0	13166.4	12467.1	11437.0	10133.4	9247.1	9242.8	9034.2	9405.4	10383.8
40°	14236.8	14244.0	14009.5	13347.7	12267.1	10802.4	9776.6	9766.5	9493.1	9898.9	10857.1
42.5°	14500.1	14547.6	14608.1	14187.9	13136.2	11578.0	10408.2	10393.8	10133.4	10606.8	11413.9
45°	14518.8	14613.8	14987.9	14934.7	14016.7	12465.7	11215.4	11175.1	10988.1	11547.7	12078.7
47.5°	14357.7	14455.5	15077.1	15379.2	14803.7	13402.3	12159.2	12127.6	11966.4	12724.7	12798.1
50°	14005.2	14098.7	14892.9	15596.5	15451.2	14303.0	13247.0	13163.5	13077.2	14084.3	13621.0
52.5°	13344.8	13524.6	14646.9	15648.3	15838.2	15103.0	14390.8	14336.1	14383.6	15518.8	14445.5
55°	11780.8	11982.3	14012.4	15605.1	16124.5	15774.9	15534.6	15531.8	15777.8	17023.8	15330.3
57.5°	10904.6	11047.0	12720.4	15531.8	16464.1	16442.5	16667.0	16694.3	17173.4	18662.6	16256.9
60°	10409.7	10559.3	12065.7	15259.8	16990.7	17305.8	17822.3	17877.0	18592.1	20476.9	17372.0
62.5°	9959.3	10123.3	11660.0	14705.9	17610.8	18540.3	19206.4	19255.4	20094.2	22341.6	18449.6
65°	9189.6	9375.2	11065.7	14341.9	18174.8	20150.3	20966.1	20999.2	21819.3	24295.4	19274.1
67.5°	8101.8	8271.6	9944.9	13537.6	18592.1	22105.6	23305.5	23324.3	23530.0	25675.2	19695.6
70°	6831.4	6896.1	8347.9	11877.2	18098.6	23934.3	25869.5	25873.8	25089.7	26558.7	19626.6
72.5°	4799.8	4952.3	6060.2	8991.0	15553.3	23711.3	27200.4	27249.3	25814.8	26112.6	18058.3
75°	2943.8	3104.9	3801.3	5448.7	9867.2	18648.2	25131.4	25470.9	24455.1	23282.5	14751.9
77.5°	1968.3	2028.7	2480.5	3176.9	4470.3	10729.1	19321.5	19960.4	20315.7	16979.2	9434.2
80°	1097.8	1212.9	1644.5	1974.0	1988.4	4263.1	11585.2	11734.8	11303.1	6760.9	2910.7
82.5°	581.3	644.6	1097.8	1159.7	1084.8	1427.3	4317.8	4322.1	3611.4	1812.9	864.7
85°	450.3	503.6	752.5	707.9	553.9	633.1	1424.4	1502.1	1228.7	742.4	282.0
87.5°	224.5	279.1	510.8	448.9	217.3	181.3	509.3	543.9	484.9	290.6	102.2
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°	7513.4	7513.4	7513.4	7513.4	7513.4	7513.4	7513.4	7513.4	7513.4	7513.4	7513.4
2.5°	7532.1	7545.0	7560.9	7543.6	7537.8	7514.8	7476.0	7467.3	7447.2	7448.6	7460.1
5°	7598.3	7619.8	7611.2	7545.0	7465.9	7355.1	7240.0	7142.2	7077.4	7073.1	7068.8
7.5°	7724.9	7739.3	7671.6	7483.2	7261.6	7005.5	6763.8	6552.3	6424.2	6392.6	6385.4
10°	7923.4	7920.5	7734.9	7355.1	6913.4	6455.9	6067.4	5773.9	5602.7	5552.3	5539.3
12.5°	8145.0	8111.9	7756.5	7122.0	6421.3	5786.8	5294.8	4968.1	4789.7	4732.2	4717.8
15°	8373.8	8291.8	7703.3	6773.8	5817.0	5066.0	4549.5	4247.3	4150.9	4119.3	4113.5
17.5°	8586.7	8428.4	7550.8	6301.9	5127.9	4348.0	3945.2	3824.3	3847.3	3889.1	3890.5
20°	8795.3	8520.5	7306.2	5706.2	4401.3	3756.7	3620.0	3709.2	3818.6	3903.4	3915.0
22.5°	9001.1	8585.3	6991.1	5018.5	3750.9	3424.3	3520.7	3683.3	3808.5	3900.6	3916.4
25°	9173.7	8601.1	6556.6	4284.7	3299.1	3299.1	3473.2	3627.2	3750.9	3841.6	3857.4
27.5°	9237.0	8494.6	5943.6	3605.6	3071.8	3241.6	3407.1	3535.1	3640.1	3736.5	3753.8
30°	9261.5	8297.5	5235.8	3060.3	2978.3	3179.7	3317.9	3427.2	3526.5	3617.1	3632.9
32.5°	9265.8	8060.1	4484.7	2751.0	2913.6	3115.0	3207.1	3303.5	3409.9	3445.9	3451.7
35°	9293.2	7779.5	3693.4	2592.7	2853.1	3054.6	3127.9	3197.0	3024.3	3037.3	3048.8
37.5°	9372.3	7501.9	3031.5	2503.5	2814.3	3022.9	3110.7	2860.3	2725.1	2693.4	2689.1
40°	9520.5	7205.5	2540.9	2431.6	2799.9	3038.7	2999.9	2670.4	2437.3	2263.2	2237.3
42.5°	9726.2	6886.1	2227.2	2384.1	2810.0	3115.0	2845.9	2487.7	2100.6	1988.4	1974.0
45°	9957.9	6550.8	2057.5	2351.0	2844.5	3174.0	2814.3	2244.5	1943.8	1858.9	1851.7
47.5°	10182.3	6140.8	1969.7	2336.6	2892.0	3126.5	2680.5	2169.7	1869.0	1824.4	1828.7
50°	10439.9	5771.0	1916.5	2320.8	2933.7	3096.3	2529.4	2130.9	1840.2	1894.9	1952.4
52.5°	10657.1	5388.3	1869.0	2289.1	2949.5	3043.0	2490.5	2138.0	1840.2	1945.2	1999.9
55°	10914.7	5099.1	1814.3	2222.9	2919.3	2892.0	2463.2	2181.2	1861.8	1795.6	1801.4
57.5°	11247.0	5004.1	1753.9	2119.3	2818.6	2671.8	2450.3	2222.9	1848.8	1807.1	1821.5
60°	11707.4	5104.8	1729.4	1984.1	2661.8	2499.2	2451.7	2201.4	1758.2	1686.3	1687.7
62.5°	12146.3	5217.1	1728.0	1899.2	2469.0	2345.2	2418.6	2130.9	1712.2	1670.4	1686.3
65°	12290.2	5103.4	1658.9	1804.2	2251.7	2161.1	2358.2	2056.0	1677.6	1614.3	1611.4
67.5°	12097.4	4750.9	1519.4	1650.3	2002.8	1946.7	2279.0	1966.8	1623.0	1571.2	1562.5
70°	11524.7	3963.9	1346.7	1447.4	1719.4	1705.0	2153.9	1863.2	1549.6	1505.0	1467.6
72.5°	9983.8	2824.3	1135.2	1204.3	1399.9	1446.0	1981.2	1728.0	1446.0	1349.6	1292.0
75°	8199.7	2090.6	932.3	946.7	1063.3	1188.4	1743.8	1569.7	1323.7	1159.7	1115.1
77.5°	5021.4	1279.1	742.4	748.2	762.6	948.2	1435.9	1392.8	1168.3	966.9	935.2
80°	1625.8	697.8	536.7	564.0	520.8	694.9	1110.7	1185.6	1002.8	808.6	774.1
82.5°	618.7	407.2	362.6	381.3	361.1	466.2	810.0	949.6	821.6	664.7	541.0
85°	299.3	230.2	214.4	240.3	223.0	238.8	518.0	699.3	623.0	433.1	402.9
87.5°	106.5	102.2	82.0	110.8	95.0	84.9	158.3	352.5	411.5	297.8	266.2
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)