

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: P317733

Luminaire Tested: **GAN-SA9C-730-U-T3R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317733
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-SA9C-730-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 58879 lumens
Efficiency: N/A
Efficacy: 117.5 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B4 - U0 - G5

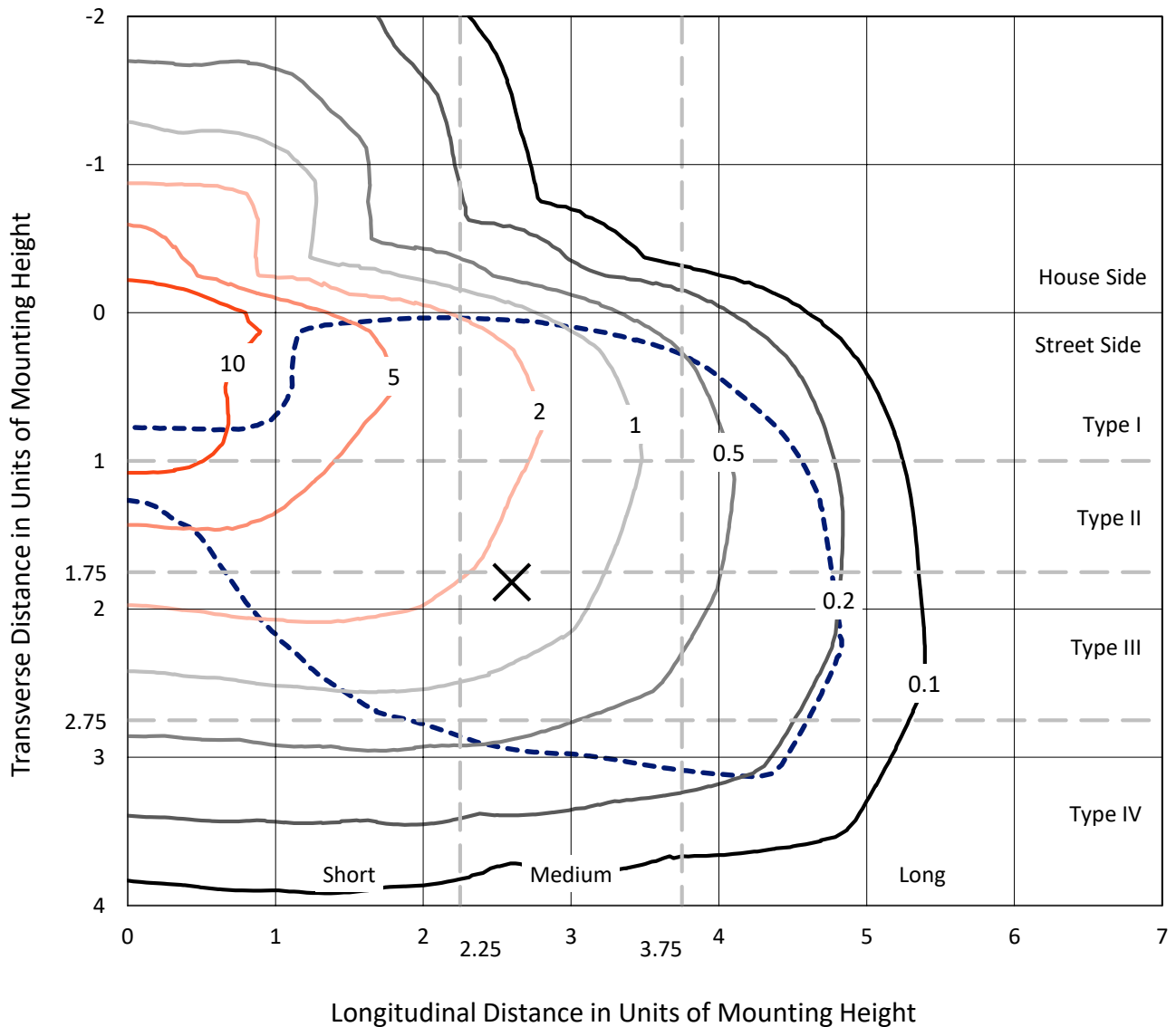
Input Watts (W): 501
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

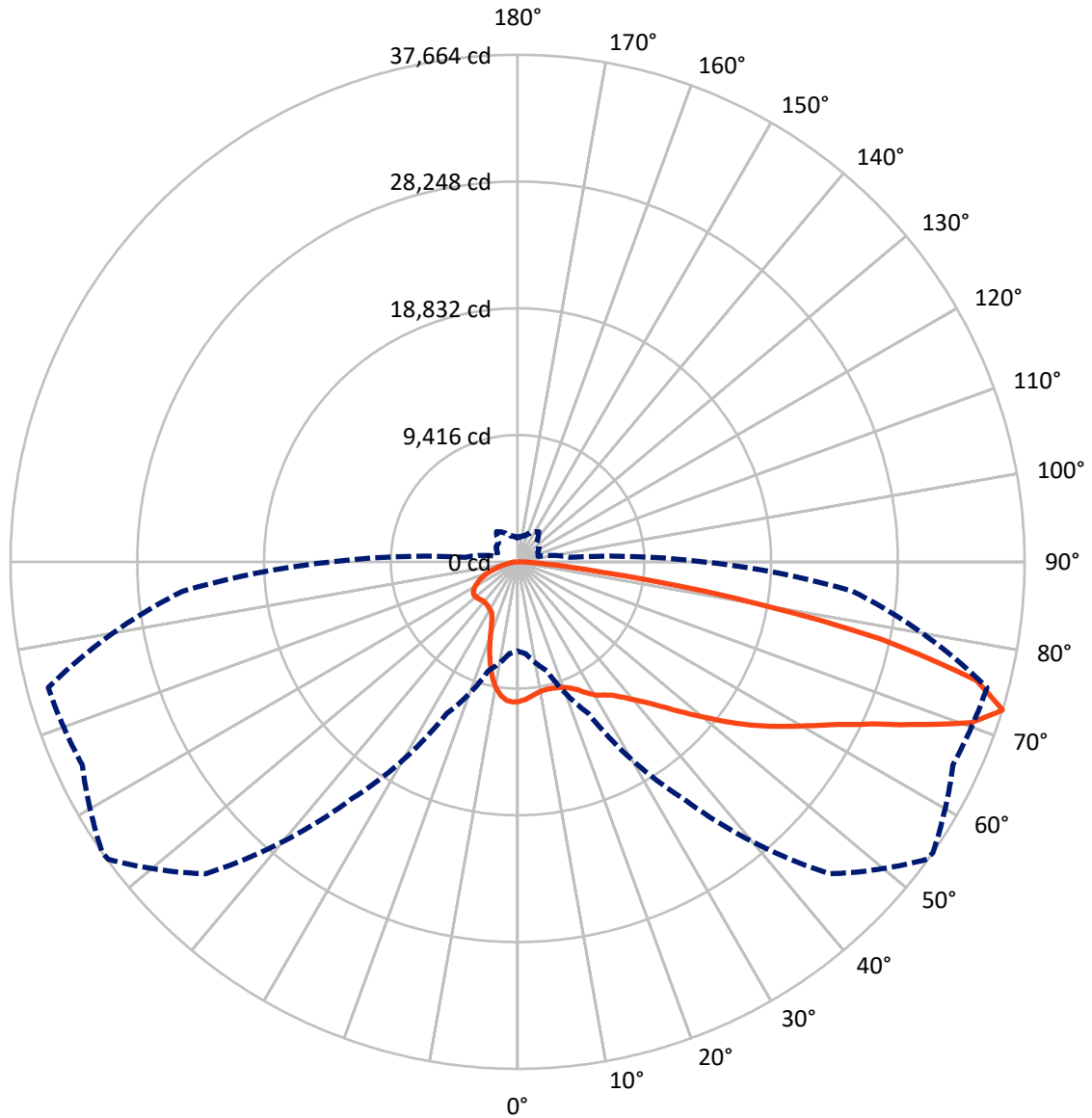
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.7 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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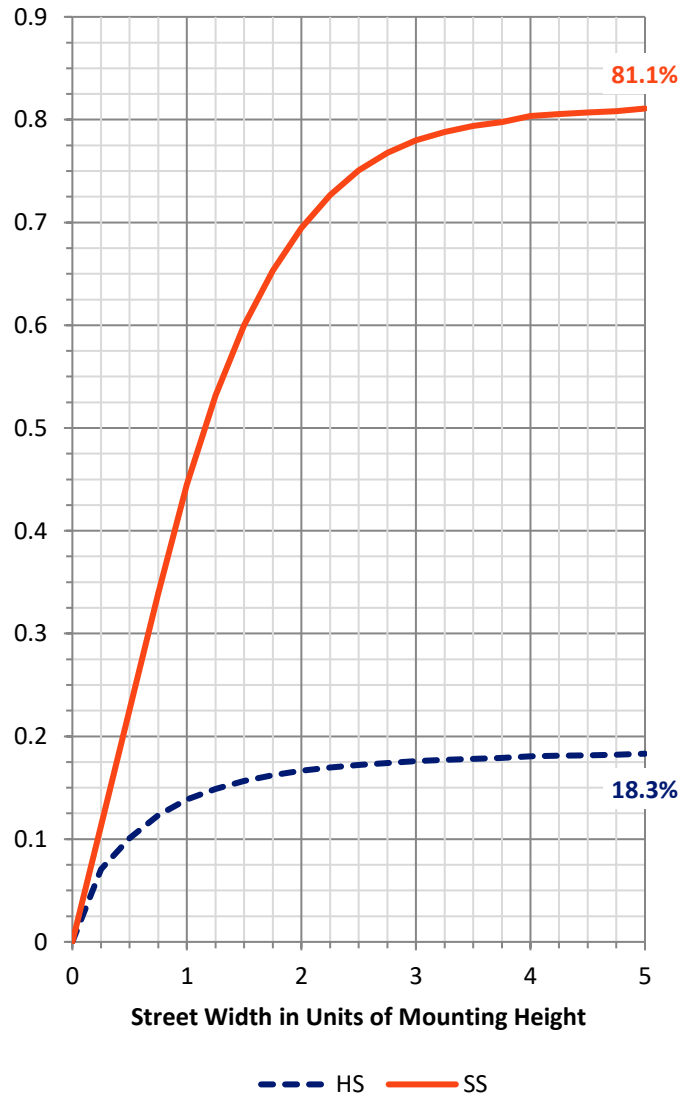
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10943.7	0.0	10943.7
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	47935.3	0.0	47935.3
	% Fixture	81.4	0.0	81.4
Total	Lumens	58879.0	0.0	58879.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	939.7	1.6
10°-20°	2501.9	4.2
20°-30°	4125.0	7.0
30°-40°	6101.9	10.4
40°-50°	8516.9	14.5
50°-60°	11089.3	18.8
60°-70°	13628.4	23.1
70°-80°	10683.0	18.1
80°-90°	1292.8	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°	58879.0	100.0
0°-180°	58879.0	100.0

Coefficient of Utilization

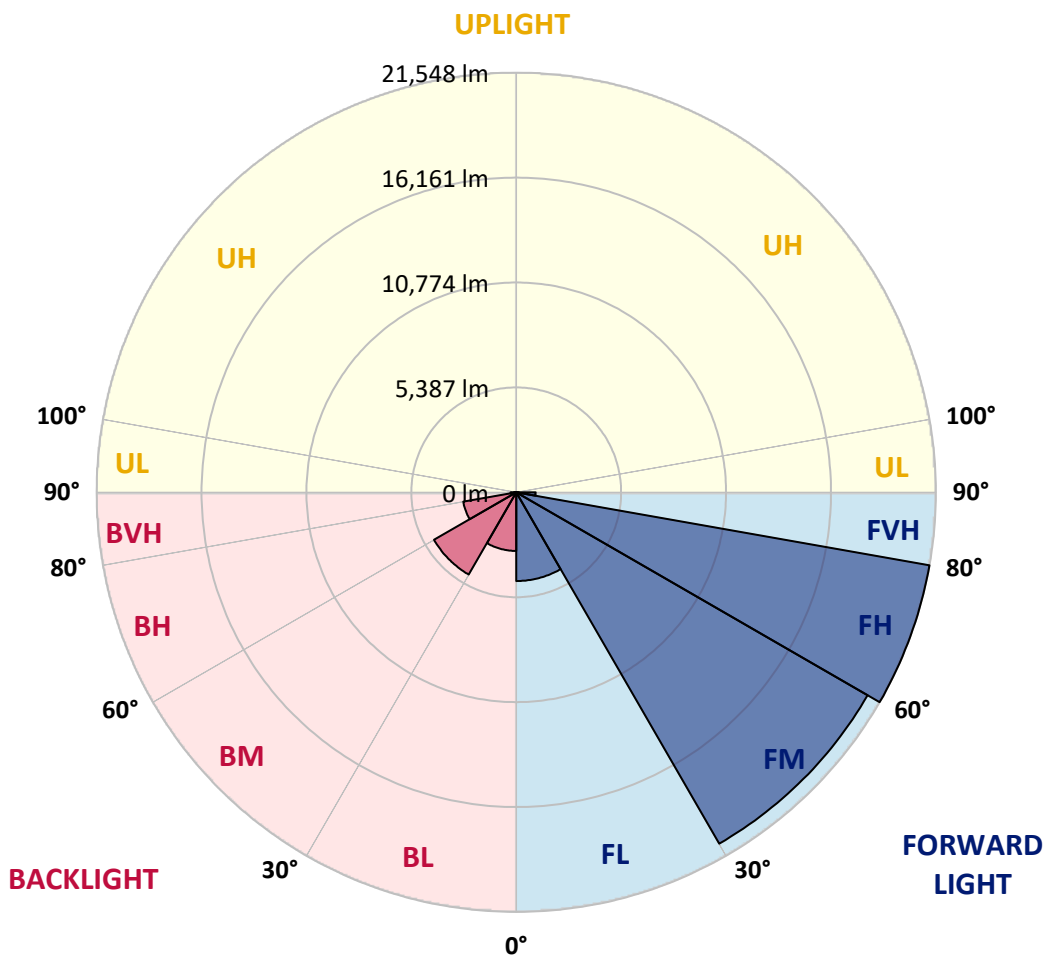


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4555.5	7.7			
FM (30°-60°)	20832.6	35.4			
FH (60°-80°)	21547.7	36.6			G5
FVH (80°-90°)	999.5	1.7			G5
BL (0°-30°)	3011.1	5.1	B4/5000		
BM (30°-60°)	4875.6	8.3	B3/5000		
BH (60°-80°)	2763.8	4.7	B4/5000		G4/5000
BVH (80°-90°)	293.3	0.5			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5
 Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	10385.0	10385.0	10385.0	10385.0	10385.0	10385.0	10385.0	10385.0	10385.0	10385.0	10385.0
2.5°	10046.9	10023.0	10052.9	10094.6	10140.4	10202.0	10237.8	10253.7	10315.4	10339.2	10391.0
5°	9581.6	9569.6	9619.3	9690.9	9792.4	9935.5	10050.9	10072.8	10235.8	10351.2	10456.6
7.5°	9243.5	9243.5	9301.1	9386.7	9500.0	9692.9	9856.0	9885.8	10162.3	10410.8	10605.7
10°	8975.0	8984.9	9052.6	9154.0	9287.2	9492.1	9708.8	9742.6	10142.4	10550.1	10860.3
12.5°	8796.0	8819.9	8881.5	8973.0	9138.1	9386.7	9661.1	9706.8	10184.1	10748.9	11166.5
15°	8909.4	8949.1	8955.1	8992.9	9084.4	9354.8	9688.9	9736.7	10273.6	10951.8	11514.6
17.5°	9406.5	9420.5	9358.8	9279.3	9235.5	9408.5	9772.5	9822.2	10381.0	11152.6	11848.7
20°	10162.3	10154.3	10021.1	9806.3	9583.5	9611.4	9909.7	9961.4	10526.2	11329.6	12182.8
22.5°	11116.8	11089.0	10884.2	10488.4	10108.6	9949.5	10150.3	10194.1	10744.9	11582.2	12540.7
25°	12274.3	12212.6	11942.1	11411.2	10852.3	10442.7	10512.3	10554.0	11063.1	11864.6	12868.9
27.5°	13495.3	13433.7	13089.6	12447.3	11703.5	11065.1	11011.4	11047.2	11425.1	12073.4	13111.5
30°	14772.1	14706.4	14392.2	13672.3	12606.4	11709.5	11476.8	11490.7	11679.6	12186.8	13310.4
32.5°	16054.8	15993.1	15641.1	14805.9	13586.8	12401.5	11812.9	11795.0	11832.8	12304.1	13535.1
35°	17355.4	17379.2	16967.6	16042.8	14672.6	13171.2	12210.6	12172.8	12089.3	12544.7	13853.3
37.5°	18747.5	18731.6	18198.6	17232.1	15808.2	14006.4	12781.4	12775.4	12487.0	13000.1	14352.4
40°	19678.2	19688.1	19364.0	18449.2	16955.7	14931.2	13513.2	13499.3	13121.4	13682.3	15006.7
42.5°	20042.1	20107.7	20191.3	19610.6	18156.8	16003.1	14386.3	14366.4	14006.4	14660.7	15776.4
45°	20068.0	20199.2	20716.3	20642.7	19373.9	17230.1	15501.9	15446.2	15187.7	15961.3	16695.1
47.5°	19845.2	19980.5	20839.6	21257.2	20461.7	18524.7	16806.5	16762.7	16540.0	17588.1	17689.5
50°	19358.0	19487.3	20585.0	21557.5	21356.6	19769.7	18310.0	18194.6	18075.3	19467.4	18827.0
52.5°	18445.2	18693.8	20245.0	21629.1	21891.6	20875.4	19891.0	19815.4	19881.0	21450.1	19966.5
55°	16283.5	16561.9	19367.9	21569.4	22287.4	21804.1	21472.0	21468.0	21808.1	23530.3	21189.6
57.5°	15072.4	15269.2	17582.1	21468.0	22756.7	22726.9	23037.1	23074.9	23737.1	25795.4	22470.3
60°	14388.2	14595.1	16677.2	21092.1	23484.6	23920.1	24634.0	24709.6	25698.0	28303.2	24011.6
62.5°	13765.8	13992.5	16116.4	20326.5	24341.7	25626.4	26547.1	26614.8	27774.2	30880.5	25501.1
65°	12701.8	12958.4	15295.1	19823.4	25121.3	27851.7	28979.3	29025.1	30158.6	33581.2	26640.6
67.5°	11198.4	11433.0	13745.9	18711.7	25698.0	30554.4	32213.0	32238.8	32523.2	35488.3	27223.3
70°	9442.3	9531.8	11538.4	16416.7	25015.9	33082.0	35756.8	35762.8	34678.9	36709.4	27127.8
72.5°	6634.3	6845.1	8376.4	12427.4	21497.8	32773.8	37596.4	37664.0	35681.2	36092.9	24960.2
75°	4068.9	4291.6	5254.1	7531.2	13638.5	25775.5	34736.6	35205.9	33801.9	32181.1	20390.1
77.5°	2720.5	2804.1	3428.5	4391.0	6178.9	14829.7	26706.2	27589.2	28080.4	23468.6	13039.9
80°	1517.4	1676.5	2273.1	2728.5	2748.4	5892.5	16013.0	16219.8	15623.2	9344.9	4023.1
82.5°	803.4	890.9	1517.4	1602.9	1499.5	1972.8	5968.1	5974.1	4991.6	2505.8	1195.2
85°	622.5	696.0	1040.1	978.4	765.6	875.0	1968.8	2076.2	1698.3	1026.2	389.8
87.5°	310.2	385.8	706.0	620.5	300.3	250.6	704.0	751.7	670.2	401.7	141.2
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°	10385.0	10385.0	10385.0	10385.0	10385.0	10385.0	10385.0	10385.0	10385.0	10385.0	10385.0
2.5°	10410.8	10428.7	10450.6	10426.8	10418.8	10387.0	10333.3	10321.4	10293.5	10295.5	10311.4
5°	10502.3	10532.2	10520.2	10428.7	10319.4	10166.2	10007.1	9871.9	9782.4	9776.4	9770.5
7.5°	10677.3	10697.2	10603.7	10343.2	10037.0	9683.0	9348.9	9056.5	8879.5	8835.8	8825.8
10°	10951.8	10947.8	10691.2	10166.2	9555.7	8923.3	8386.3	7980.7	7744.0	7674.4	7656.5
12.5°	11258.0	11212.3	10721.1	9844.1	8875.6	7998.5	7318.4	6867.0	6620.4	6540.8	6520.9
15°	11574.2	11460.9	10647.5	9362.8	8040.3	7002.2	6288.3	5870.6	5737.4	5693.6	5685.7
17.5°	11868.6	11649.8	10436.7	8710.5	7087.7	6009.8	5453.0	5286.0	5317.8	5375.5	5377.4
20°	12156.9	11777.1	10098.6	7887.2	6083.4	5192.5	5003.6	5126.9	5278.0	5395.3	5411.3
22.5°	12441.3	11866.6	9663.1	6936.6	5184.5	4733.1	4866.3	5091.1	5264.1	5391.4	5413.2
25°	12679.9	11888.4	9062.5	5922.3	4560.1	4560.1	4800.7	5013.5	5184.5	5309.8	5331.7
27.5°	12767.5	11741.3	8215.3	4983.7	4245.9	4480.5	4709.2	4886.2	5031.4	5164.7	5188.5
30°	12801.3	11468.8	7236.9	4230.0	4116.6	4395.0	4585.9	4737.1	4874.3	4999.6	5021.5
32.5°	12807.2	11140.7	6198.8	3802.4	4027.1	4305.5	4432.8	4566.1	4713.2	4762.9	4770.9
35°	12845.0	10752.9	5105.0	3583.6	3943.6	4222.0	4323.4	4418.9	4180.2	4198.1	4214.1
37.5°	12954.4	10369.1	4190.2	3460.3	3889.9	4178.3	4299.6	3953.5	3766.6	3722.8	3716.9
40°	13159.2	9959.4	3512.0	3360.9	3870.0	4200.1	4146.4	3691.0	3368.9	3128.2	3092.4
42.5°	13443.6	9517.9	3078.5	3295.3	3883.9	4305.5	3933.6	3438.5	2903.5	2748.4	2728.5
45°	13763.8	9054.5	2843.8	3249.5	3931.7	4387.1	3889.9	3102.4	2686.7	2569.4	2559.5
47.5°	14074.0	8487.8	2722.5	3229.6	3997.3	4321.4	3704.9	2999.0	2583.3	2521.7	2527.6
50°	14430.0	7976.7	2648.9	3207.8	4055.0	4279.7	3496.1	2945.3	2543.5	2619.1	2698.7
52.5°	14730.3	7447.7	2583.3	3164.0	4076.8	4206.1	3442.4	2955.2	2543.5	2688.7	2764.3
55°	15086.3	7048.0	2507.8	3072.5	4035.1	3997.3	3404.7	3014.9	2573.4	2481.9	2489.9
57.5°	15545.7	6916.7	2424.2	2929.4	3895.9	3693.0	3386.8	3072.5	2555.5	2497.8	2517.7
60°	16182.0	7055.9	2390.4	2742.4	3679.1	3454.4	3388.7	3042.7	2430.2	2330.8	2332.7
62.5°	16788.6	7211.0	2388.4	2625.1	3412.6	3241.6	3343.0	2945.3	2366.6	2308.9	2330.8
65°	16987.5	7053.9	2293.0	2493.8	3112.3	2987.0	3259.5	2841.9	2318.8	2231.3	2227.3
67.5°	16721.0	6566.7	2100.1	2281.0	2768.3	2690.7	3150.1	2718.6	2243.3	2171.7	2159.7
70°	15929.5	5478.9	1861.4	2000.6	2376.5	2356.6	2977.1	2575.4	2141.8	2080.2	2028.5
72.5°	13799.6	3903.8	1569.1	1664.5	1935.0	1998.6	2738.4	2388.4	1998.6	1865.4	1785.9
75°	11333.6	2889.6	1288.7	1308.6	1469.6	1642.7	2410.3	2169.7	1829.6	1602.9	1541.2
77.5°	6940.6	1768.0	1026.2	1034.1	1054.0	1310.6	1984.7	1925.1	1614.8	1336.4	1292.7
80°	2247.2	964.5	741.8	779.6	719.9	960.5	1535.3	1638.7	1386.1	1117.6	1069.9
82.5°	855.1	562.8	501.2	527.0	499.2	644.3	1119.6	1312.5	1135.5	918.8	747.8
85°	413.6	318.2	296.3	332.1	308.2	330.1	715.9	966.5	861.1	598.6	556.8
87.5°	147.2	141.2	113.4	153.1	131.3	117.3	218.8	487.2	568.8	411.7	367.9
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)