

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: P321244

Luminaire Tested: **GAN-SA0B-730-U-T2R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321244
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-9)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA0B-730-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 41579 lumens
Efficiency: N/A
Efficacy: 99.2 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G4

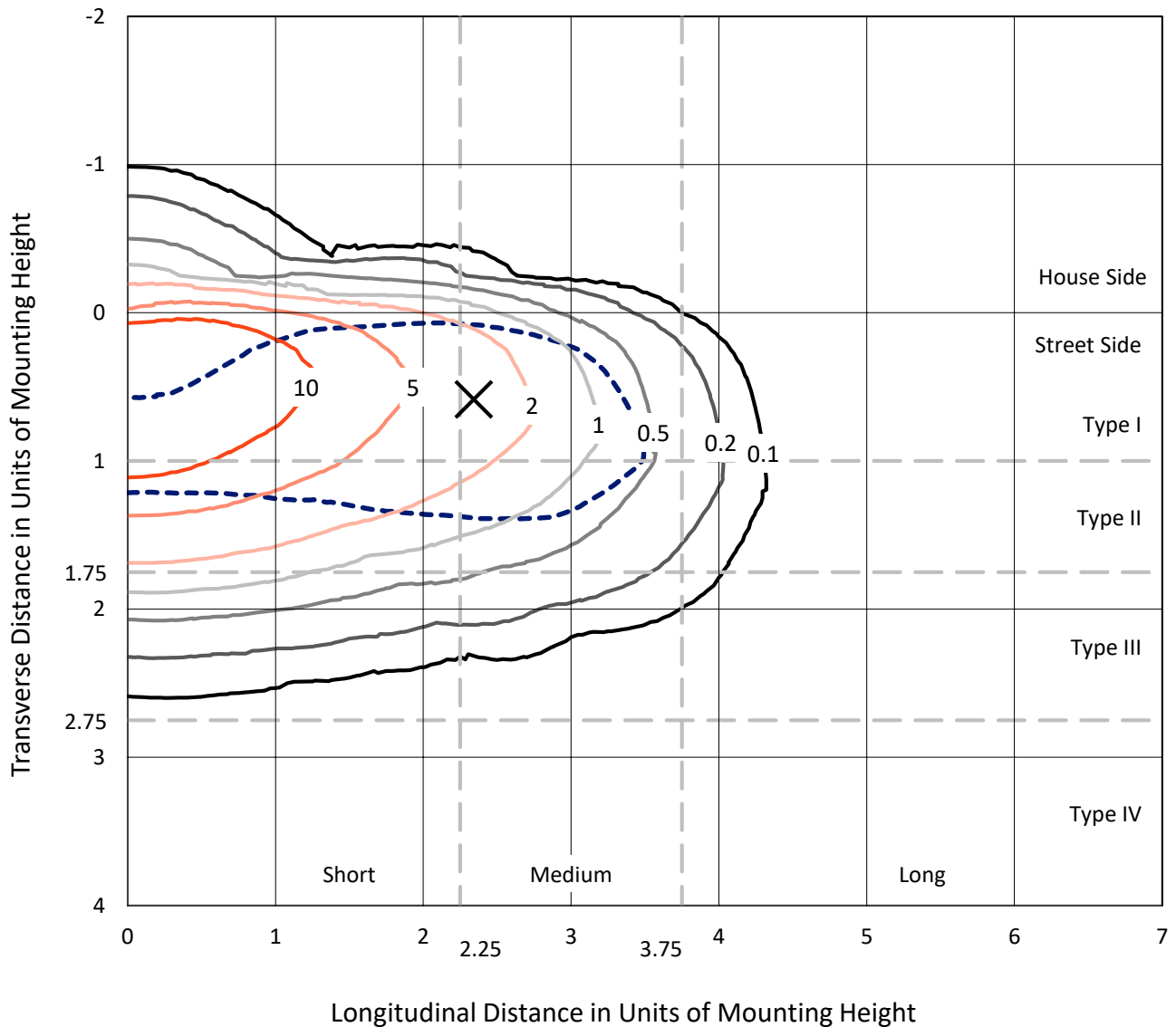
Input Watts (W): 419
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

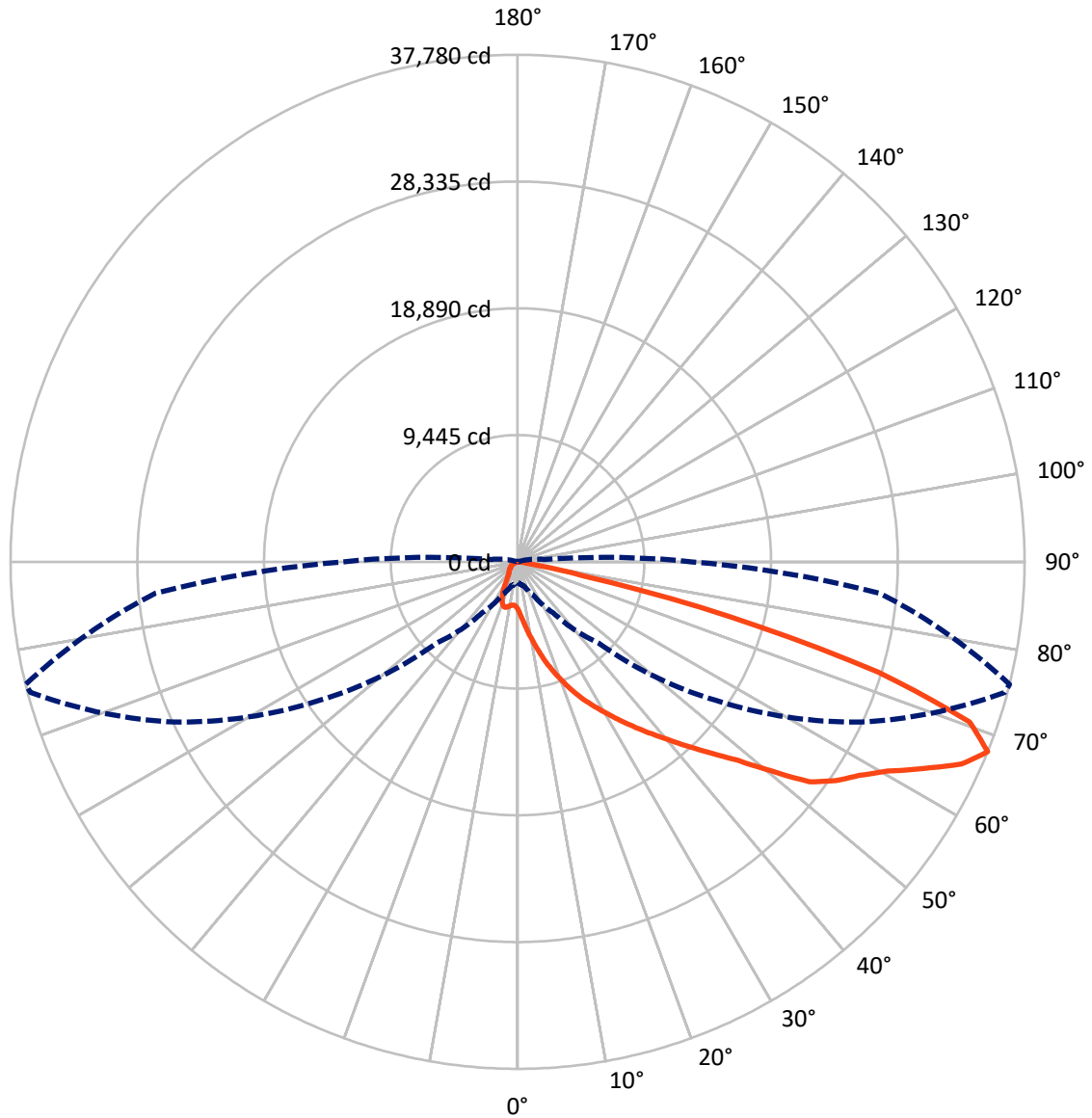
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19.9 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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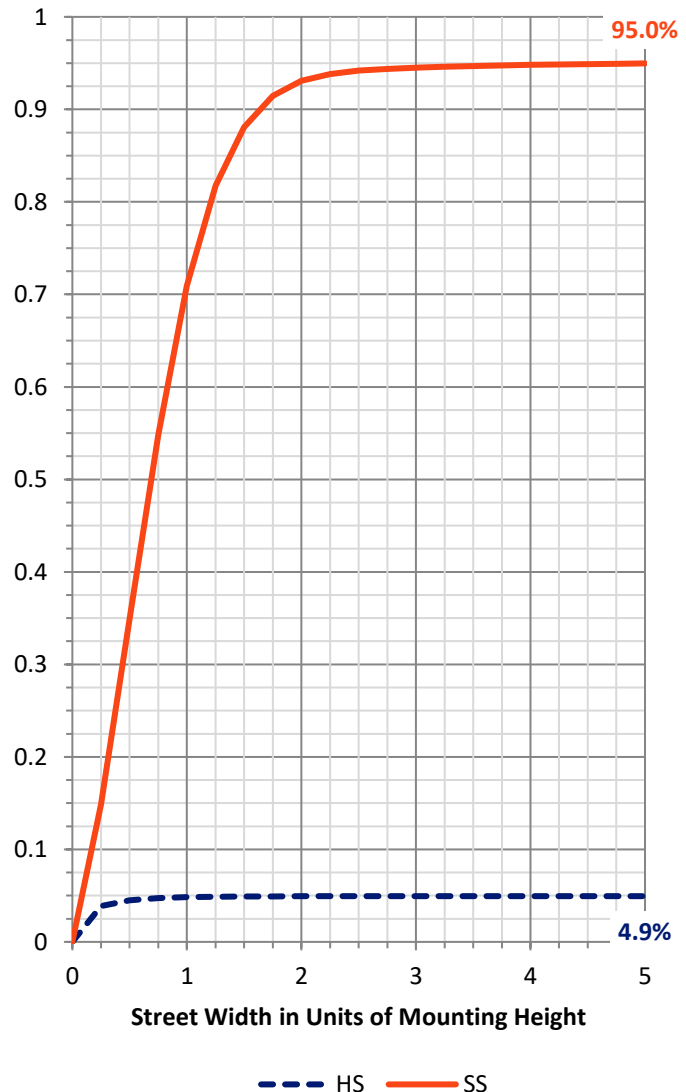
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2064.7	0.0	2064.7
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	39514.3	0.0	39514.3
	% Fixture	95.0	0.0	95.0
Total	Lumens	41579.0	0.0	41579.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	438.6	1.1
10°-20°	1738.6	4.2
20°-30°	3537.5	8.5
30°-40°	6140.0	14.8
40°-50°	8675.1	20.9
50°-60°	9838.0	23.7
60°-70°	8159.7	19.6
70°-80°	2955.7	7.1
80°-90°	95.8	0.2
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°	41579.0	100.0
0°-180°	41579.0	100.0

Coefficient of Utilization

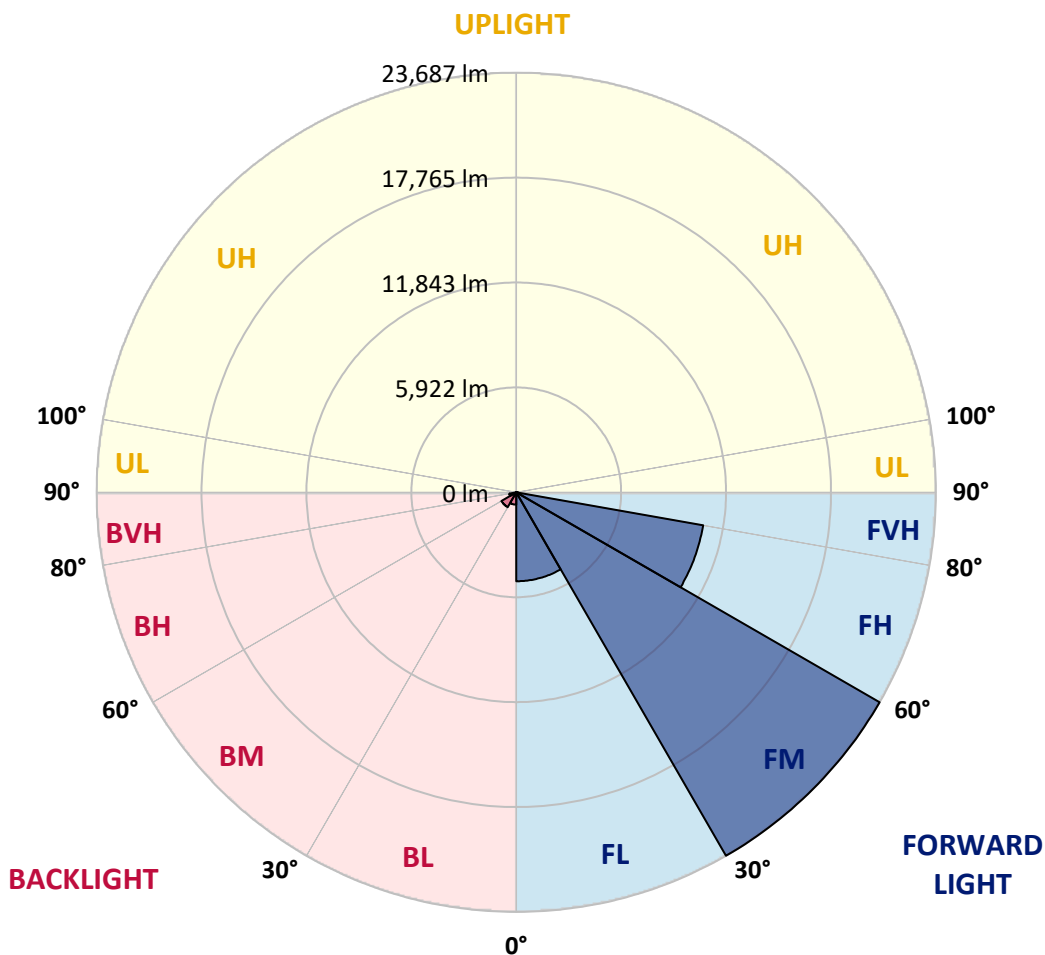


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5018.4	12.1			
FM (30°-60°)	23686.7	57.0			
FH (60°-80°)	10716.3	25.8			G4/12000
FVH (80°-90°)	92.8	0.2			G1/100
BL (0°-30°)	696.3	1.7	B2/1000		
BM (30°-60°)	966.3	2.3	B1/1000		
BH (60°-80°)	399.0	1.0	B1/500		G1/500
BVH (80°-90°)	3.0	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-G4
 Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3527.1	3527.1	3527.1	3527.1	3527.1	3527.1	3527.1	3527.1	3527.1	3527.1	3527.1
2.5°	5265.1	5146.7	5174.1	5097.5	4959.1	4674.9	4432.6	4203.0	3935.2	3926.1	3705.6
5°	7099.8	6999.6	6986.8	6831.9	6580.5	6097.7	5627.7	5092.1	4494.5	4450.8	3982.6
7.5°	8764.9	8684.8	8655.6	8471.6	8003.4	7533.4	6921.2	6134.2	5199.6	5119.4	4356.0
10°	10043.9	10005.6	10012.9	9881.7	9480.9	9043.7	8240.2	7236.4	5999.4	5875.5	4804.2
12.5°	11013.1	11022.2	11087.8	11007.6	10783.5	10459.2	9601.2	8411.5	6884.8	6715.3	5316.2
15°	11725.4	11771.0	11891.2	11991.4	11975.0	11694.5	10907.4	9604.8	7824.8	7637.2	5886.4
17.5°	12186.4	12237.4	12412.3	12634.5	12838.6	12773.0	12168.1	10756.2	8775.9	8559.1	6496.7
20°	12590.8	12650.9	12838.6	13131.9	13512.7	13594.7	13197.5	11873.0	9725.0	9460.9	7127.1
22.5°	13467.1	13465.3	13580.1	13751.3	14113.9	14325.2	14073.8	12909.6	10663.3	10388.2	7770.2
25°	15052.1	14992.0	14951.9	14817.1	14897.3	15028.4	14888.2	13878.9	11607.0	11328.3	8422.4
27.5°	16935.9	16972.4	16648.1	16285.5	16005.0	15870.1	15640.6	14777.0	12514.3	12208.2	9060.1
30°	18923.6	18934.5	18551.9	18089.2	17471.6	16959.6	16562.4	15635.1	13447.1	13113.7	9679.5
32.5°	20716.3	20645.2	20266.3	19635.9	18856.2	18280.5	17455.2	16593.4	14434.5	14112.1	10368.2
35°	22137.3	22053.5	21592.6	21018.7	20209.8	19630.4	18637.5	17549.9	15473.0	15157.8	11058.6
37.5°	23175.8	23077.4	22603.7	22013.4	21315.7	20978.6	20009.4	18590.2	16606.2	16267.3	11785.6
40°	23536.5	23450.9	23153.9	22722.1	22161.0	22084.5	21465.0	19787.1	17839.6	17478.8	12609.0
42.5°	23321.5	23237.7	23132.0	22986.3	22753.1	22826.0	22838.7	21151.7	19209.6	18854.3	13518.1
45°	22468.9	22394.2	22503.5	22716.7	23006.3	23367.1	24092.2	22618.3	20740.0	20361.0	14569.3
47.5°	21213.6	21159.0	21461.4	21993.4	22840.5	23835.3	25238.1	24159.6	22458.0	22106.3	15881.1
50°	19428.2	19419.1	20024.0	20995.0	22297.6	24061.2	26422.3	25912.2	24844.6	24474.7	17704.7
52.5°	16648.1	16666.3	17856.0	19410.0	21344.8	23908.1	27183.8	28164.0	27621.1	27236.7	19284.3
55°	14000.9	14110.2	14953.8	17194.6	19883.7	23339.7	27446.2	29215.2	29153.3	28788.9	20162.4
57.5°	11408.4	11607.0	12419.6	14512.9	17750.3	22029.8	27302.3	29670.7	30293.7	30015.0	21321.1
60°	8599.1	8690.2	9626.7	11583.3	15012.1	19639.6	26258.3	29918.4	31853.2	31660.1	23002.7
62.5°	5471.0	5698.7	6529.5	8417.0	11689.0	16320.1	24498.4	29914.8	33804.4	33910.1	25172.5
65°	2882.2	3148.2	3589.0	5216.0	8032.5	12612.7	21851.3	29634.2	36198.4	36345.9	26868.7
67.5°	1554.0	1630.6	1863.8	2707.3	4658.5	8544.5	17961.6	28249.6	37584.8	37779.7	27105.5
70°	1136.8	1178.7	1266.2	1497.6	2344.7	4962.7	13106.4	25110.6	35797.5	35724.7	24083.0
72.5°	872.7	938.3	1003.8	1096.8	1348.2	2649.0	8160.1	19663.2	28563.0	28082.0	18001.7
75°	688.7	699.6	792.5	876.3	1011.1	1508.5	3623.7	11452.2	17433.3	16294.6	9335.2
77.5°	550.2	557.5	612.1	685.0	812.5	991.1	1122.3	4505.4	5565.8	4966.4	2025.9
80°	326.1	344.3	455.5	528.3	674.1	624.9	409.9	978.3	869.0	787.0	340.7
82.5°	182.2	196.8	256.9	417.2	470.0	298.8	204.0	264.2	204.0	198.6	96.6
85°	0.0	9.1	165.8	258.7	191.3	65.6	85.6	87.4	60.1	56.5	38.3
87.5°	0.0	0.0	51.0	49.2	7.3	10.9	20.0	29.1	23.7	23.7	20.0
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°	3527.1	3527.1	3527.1	3527.1	3527.1	3527.1	3527.1	3527.1	3527.1	3527.1	3527.1
2.5°	3596.3	3498.0	3312.1	3129.9	2976.9	2851.2	2738.2	2692.7	2656.3	2650.8	2621.6
5°	3756.7	3558.1	3202.8	2911.3	2716.4	2577.9	2459.5	2386.6	2330.1	2308.3	2288.2
7.5°	3999.0	3698.4	3188.2	2853.0	2619.8	2386.6	2168.0	1931.2	1783.6	1727.1	1694.3
10°	4294.1	3884.2	3242.9	2836.6	2428.5	1936.6	1574.1	1273.5	1151.4	1111.3	1100.4
12.5°	4638.4	4115.6	3337.6	2734.6	2020.4	1375.5	1085.8	983.8	956.5	943.7	943.7
15°	5033.8	4368.8	3405.0	2439.5	1493.9	1040.3	940.1	892.7	863.6	847.2	849.0
17.5°	5438.2	4616.6	3372.2	2011.3	1102.2	925.5	850.8	799.8	759.7	743.3	739.7
20°	5846.3	4846.1	3190.1	1497.6	932.8	839.9	756.1	699.6	659.5	643.1	639.5
22.5°	6269.0	5041.1	2869.4	1098.6	838.1	745.1	663.2	606.7	568.4	553.8	546.6
25°	6680.7	5199.6	2421.2	889.1	748.8	655.9	577.5	524.7	490.1	475.5	473.7
27.5°	7065.1	5299.8	1902.0	785.2	670.4	575.7	504.7	457.3	428.1	417.2	415.4
30°	7411.3	5308.9	1406.5	708.7	601.2	506.5	440.9	399.0	373.5	362.5	358.9
32.5°	7761.1	5232.4	1023.9	639.5	537.4	446.4	382.6	349.8	331.6	322.5	322.5
35°	8090.8	5055.6	798.0	579.3	475.5	388.1	337.0	313.4	302.4	293.3	293.3
37.5°	8413.3	4802.4	677.7	526.5	417.2	338.9	297.0	282.4	273.3	264.2	264.2
40°	8741.2	4483.6	615.8	477.3	369.8	300.6	264.2	251.4	242.3	235.0	233.2
42.5°	9143.9	4115.6	575.7	431.8	327.9	266.0	233.2	218.6	211.3	204.0	200.4
45°	9610.3	3798.6	542.9	386.2	293.3	236.8	202.2	187.7	176.7	167.6	165.8
47.5°	10282.5	3569.0	499.2	337.0	260.5	205.9	174.9	158.5	142.1	133.0	131.2
50°	11140.6	3379.5	442.7	293.3	227.7	174.9	145.7	125.7	111.1	102.0	102.0
52.5°	11566.9	3131.8	391.7	255.1	191.3	147.6	118.4	94.7	87.4	78.3	78.3
55°	11738.2	2942.3	340.7	216.8	158.5	122.1	92.9	72.9	67.4	61.9	60.1
57.5°	12219.2	2887.6	297.0	184.0	131.2	96.6	71.1	54.7	51.0	43.7	43.7
60°	12993.4	2915.0	256.9	156.7	105.7	74.7	52.8	41.9	38.3	31.0	31.0
62.5°	13829.7	2880.3	216.8	134.8	82.0	54.7	36.4	31.0	31.0	18.2	16.4
65°	13990.0	2565.2	185.8	111.1	63.8	40.1	23.7	20.0	27.3	3.6	0.0
67.5°	12984.3	1989.5	160.3	85.6	47.4	31.0	18.2	9.1	23.7	0.0	0.0
70°	10382.7	1264.4	129.4	61.9	36.4	25.5	14.6	3.6	18.2	0.0	0.0
72.5°	7342.1	734.2	102.0	43.7	31.0	20.0	10.9	0.0	10.9	0.0	0.0
75°	3712.9	391.7	63.8	32.8	23.7	14.6	7.3	0.0	1.8	0.0	0.0
77.5°	803.4	182.2	40.1	23.7	16.4	9.1	3.6	0.0	0.0	0.0	0.0
80°	174.9	80.2	25.5	14.6	9.1	5.5	0.0	0.0	0.0	0.0	0.0
82.5°	63.8	41.9	12.8	7.3	3.6	0.0	0.0	0.0	0.0	0.0	0.0
85°	34.6	21.9	7.3	3.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	18.2	7.3	1.8	1.8	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)