

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: P324801

Luminaire Tested: **GAN-SA7B-740-U-AFL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324801
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-30)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA7B-740-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33089 lumens
Efficiency: N/A
Efficacy: 112.2 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G3

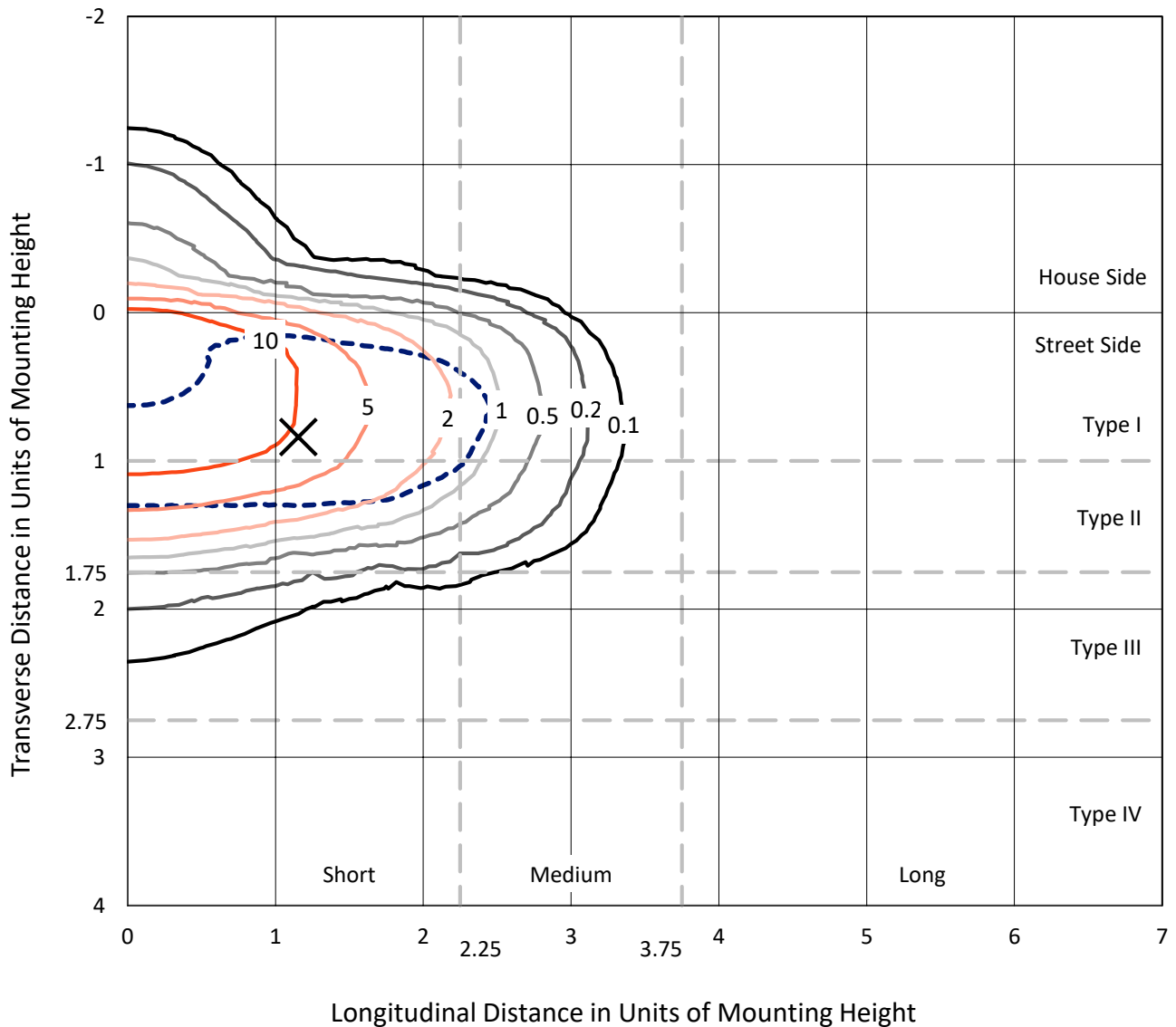
Input Watts (W): 295
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

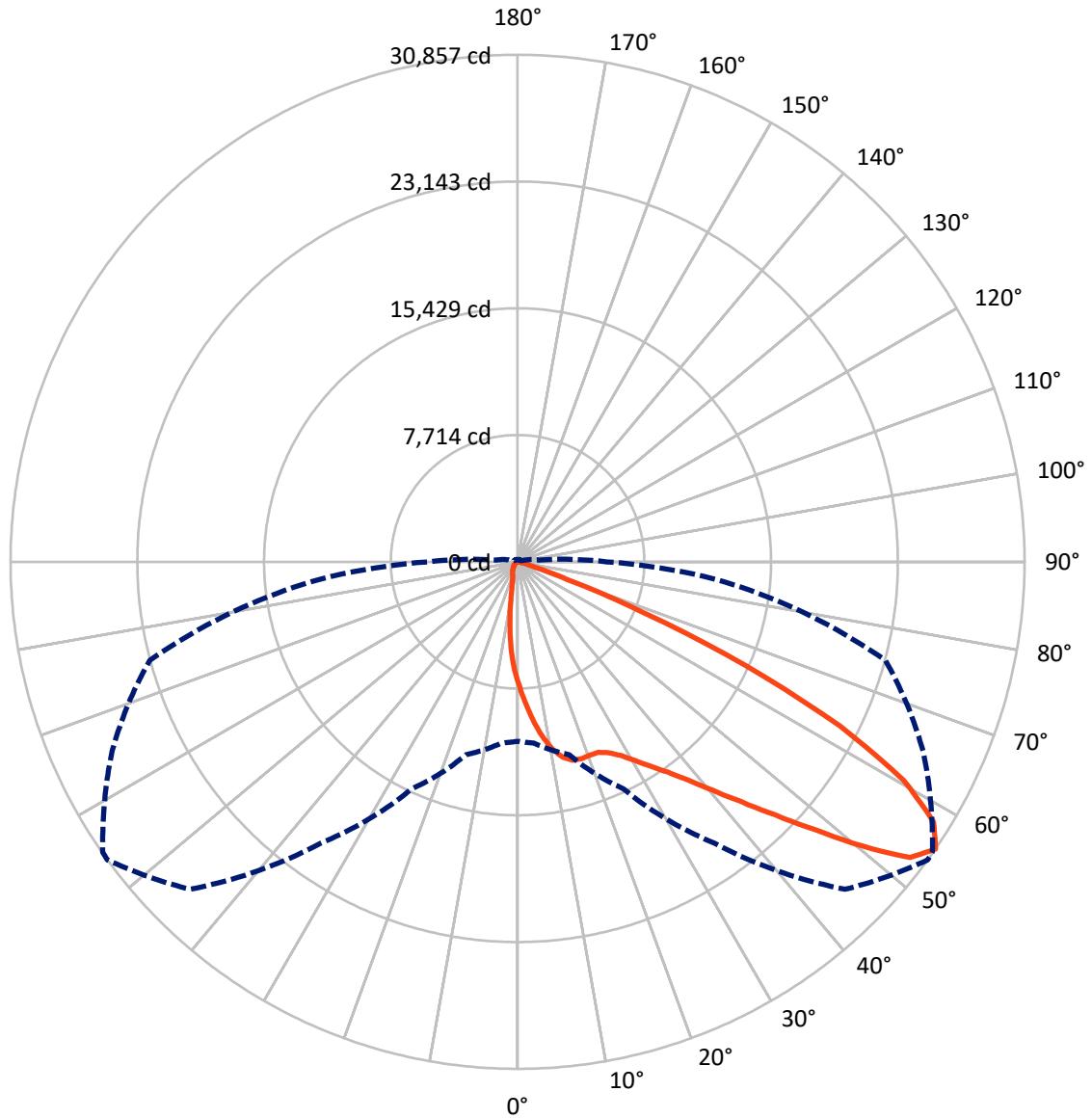
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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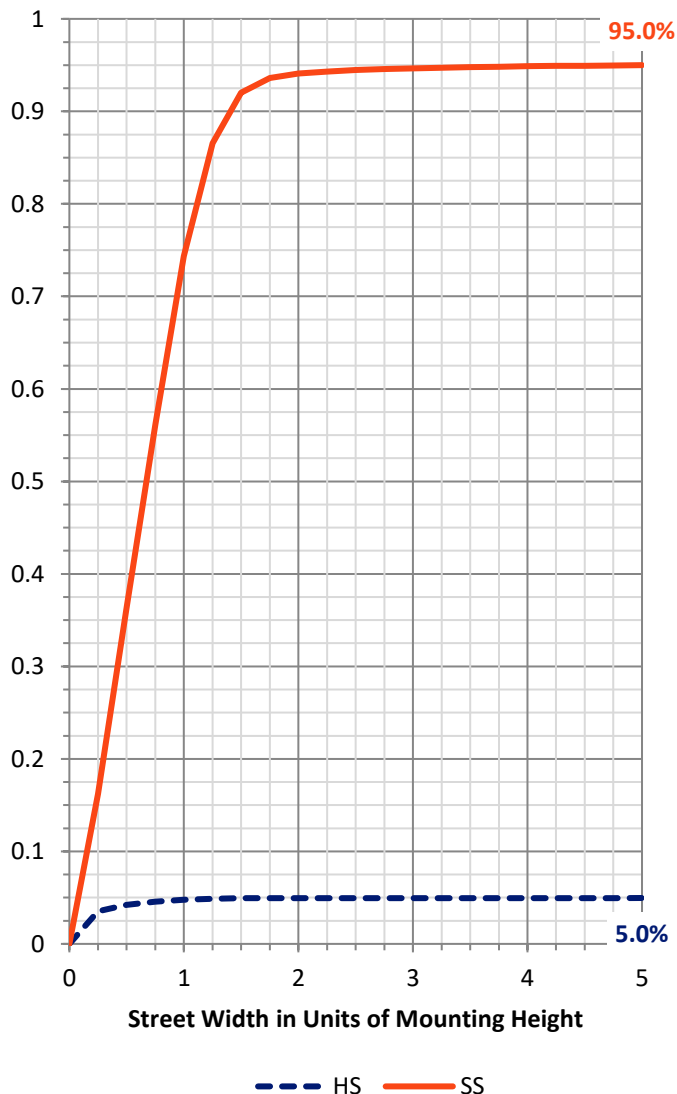
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1650.9	0.0	1650.9
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	31438.1	0.0	31438.1
	% Fixture	95.0	0.0	95.0
Total	Lumens	33089.0	0.0	33089.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	682.4	2.1
10°-20°	1871.6	5.7
20°-30°	3195.4	9.7
30°-40°	5128.1	15.5
40°-50°	8194.8	24.8
50°-60°	8780.9	26.5
60°-70°	4508.4	13.6
70°-80°	682.9	2.1
80°-90°	44.5	0.1
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°	33089.0	100.0
0°-180°	33089.0	100.0

Coefficient of Utilization



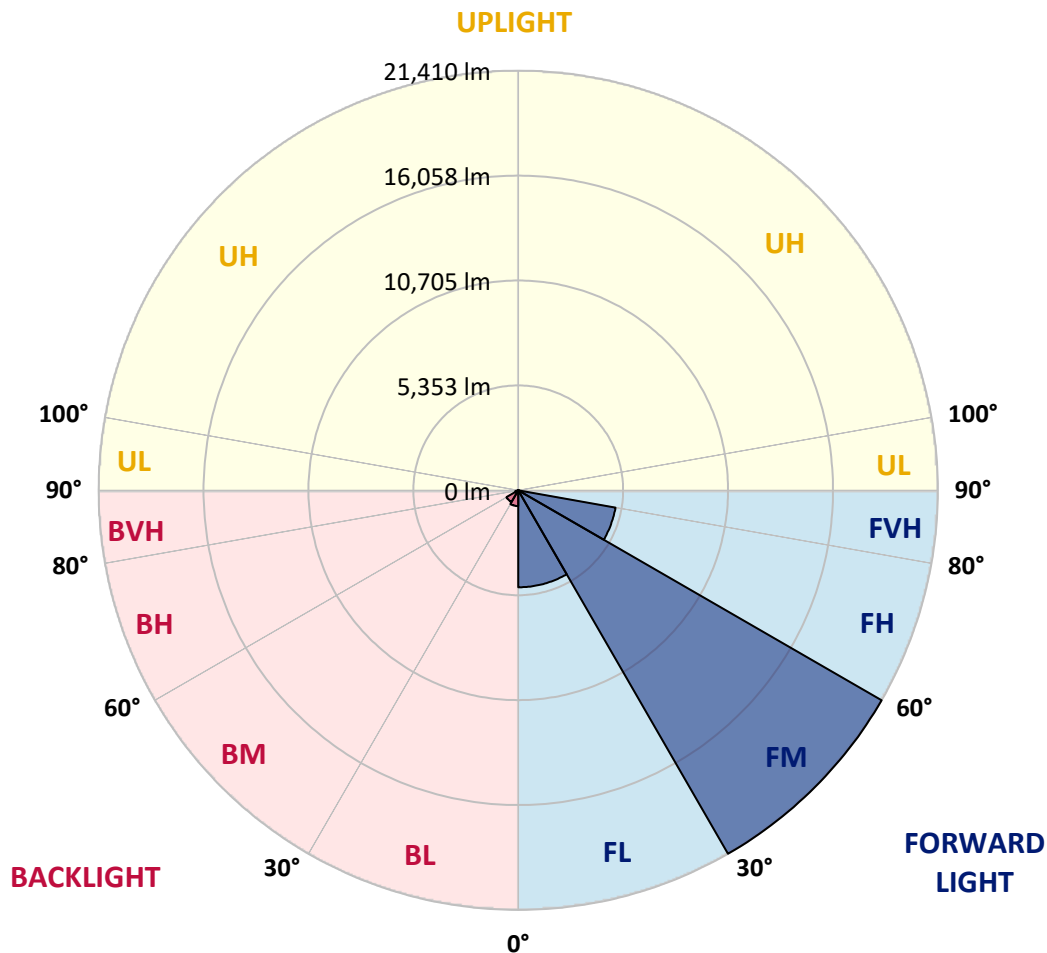
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4946.2	14.9			
FM (30°-60°)	21410.0	64.7			
FH (60°-80°)	5039.2	15.2			G3/7500
FVH (80°-90°)	42.7	0.1			G1/100
BL (0°-30°)	803.2	2.4	B2/1000		
BM (30°-60°)	693.7	2.1	B1/1000		
BH (60°-80°)	152.1	0.5	B1/500		G1/500
BVH (80°-90°)	1.8	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-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	7410.6	7410.6	7410.6	7410.6	7410.6	7410.6	7410.6	7410.6	7410.6	7410.6	7410.6
2.5°	9299.7	9161.1	9165.4	9102.5	8872.4	8692.4	8505.2	8460.9	8169.4	7863.6	7569.2
5°	10907.3	10805.8	10781.5	10660.1	10340.0	10001.3	9638.4	9554.1	8983.9	8358.0	7742.1
7.5°	11733.2	11734.7	11714.6	11670.4	11470.3	11141.6	10698.7	10610.1	9834.1	8895.3	7922.2
10°	11493.2	11547.5	11658.9	11806.1	11959.0	11917.6	11584.6	11504.6	10661.5	9464.0	8122.2
12.5°	10933.0	10940.1	11064.5	11306.0	11746.1	12197.6	12203.4	12176.2	11451.7	10058.5	8342.3
15°	10654.4	10681.5	10727.2	10883.0	11300.2	12023.3	12540.6	12579.2	12176.2	10690.1	8576.6
17.5°	10837.3	10875.8	10837.3	10855.8	11097.3	11747.5	12599.2	12697.8	12809.2	11314.5	8798.1
20°	11333.1	11368.8	11300.2	11224.5	11271.7	11667.5	12557.7	12690.6	13305.1	11869.0	8983.9
22.5°	12001.9	12016.2	11911.8	11787.5	11753.2	11939.0	12592.0	12729.2	13702.3	12370.5	9101.1
25°	12737.8	12750.6	12620.6	12477.7	12396.3	12472.0	12873.5	12976.4	14052.4	12849.2	9168.2
27.5°	13539.4	13550.9	13388.0	13212.2	13117.9	13120.7	13338.0	13448.0	14425.4	13395.1	9222.5
30°	14386.8	14381.1	14231.1	13986.7	13866.7	13863.8	14006.7	14118.2	14965.5	14095.3	9296.8
32.5°	15338.5	15327.1	15114.2	14811.2	14675.5	14695.5	14822.6	14886.9	15635.7	14841.2	9429.7
35°	16591.7	16558.8	16237.3	15861.5	15611.4	15604.3	15711.5	15762.9	16490.2	15744.3	9651.2
37.5°	18217.9	18187.9	17752.0	17206.2	16854.6	16723.2	16850.3	16916.1	17709.2	16903.2	10007.0
40°	19821.2	19791.2	19532.5	19032.4	18490.8	18175.0	18275.0	18345.0	19231.0	18309.3	10455.7
42.5°	20927.2	20952.9	21042.9	21084.4	20577.1	19914.0	19959.8	20032.6	20830.0	19812.6	10968.7
45°	21218.7	21274.4	21783.1	22782.0	22972.0	22454.7	21976.0	22016.1	22454.7	21315.9	11481.7
47.5°	20342.7	20445.6	21427.3	23285.0	24894.0	25259.8	24353.8	24301.0	24013.7	22531.9	11846.1
50°	18352.2	18446.5	19718.3	22466.2	25477.0	27937.7	27203.2	27047.4	25381.3	23259.2	11974.7
52.5°	15471.4	15585.7	16618.9	19888.3	24378.1	29132.3	29901.1	29771.0	26384.4	23316.4	11996.2
55°	10925.9	11064.5	12157.6	15242.8	20895.7	28182.0	30857.1	30818.5	27217.5	23164.9	12041.9
57.5°	6140.3	6240.3	7419.2	9771.3	15304.2	24546.7	29858.2	30114.0	27720.5	22902.0	12110.5
60°	2726.5	2753.6	3363.8	4864.2	8959.6	18759.4	26998.8	27430.4	27288.9	22550.5	12226.2
62.5°	1511.8	1489.0	1489.0	2022.0	3893.9	11613.2	22016.1	22729.1	25447.0	22134.7	12231.9
65°	1184.6	1163.2	1101.7	1110.3	1483.3	5154.3	15245.6	16513.1	21948.9	20915.7	11820.4
67.5°	1004.6	986.0	924.5	900.2	921.7	1700.5	8376.6	9692.7	16654.6	17747.7	10238.5
70°	848.8	835.9	804.5	774.5	720.2	840.2	3205.2	4099.7	10262.8	11806.1	6989.1
72.5°	683.0	677.3	688.8	663.0	597.3	560.2	1096.0	1327.5	4609.8	5268.6	2879.4
75°	588.7	585.9	591.6	565.9	491.6	390.1	557.3	608.7	1300.4	1288.9	583.0
77.5°	383.0	387.2	490.1	478.7	423.0	260.1	288.7	311.5	394.4	295.8	177.2
80°	244.4	241.5	248.6	397.3	380.1	198.6	144.3	151.5	190.1	145.8	85.7
82.5°	148.6	145.8	162.9	185.8	191.5	138.6	88.6	90.0	118.6	94.3	45.7
85°	12.9	17.1	98.6	91.5	65.7	42.9	42.9	45.7	62.9	55.7	25.7
87.5°	0.0	0.0	17.1	25.7	14.3	15.7	15.7	17.1	24.3	24.3	12.9
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°	7410.6	7410.6	7410.6	7410.6	7410.6	7410.6	7410.6	7410.6	7410.6	7410.6	7410.6
2.5°	7416.3	7267.7	6967.6	6679.0	6434.6	6198.8	5930.2	5664.4	5540.1	5490.1	5438.6
5°	7429.2	7123.4	6504.6	5881.6	5235.7	4654.1	4158.3	3649.6	3395.2	3283.8	3232.3
7.5°	7446.3	6980.5	5980.2	4934.2	3893.9	3105.1	2416.4	1973.4	1781.9	1751.9	1677.6
10°	7449.2	6807.6	5371.5	3888.2	2610.7	1871.9	1440.4	1211.8	1127.5	1113.2	1088.9
12.5°	7454.9	6603.2	4695.6	2879.4	1740.5	1251.8	1041.7	966.0	943.1	941.7	941.7
15°	7472.1	6388.9	3994.0	2074.9	1250.3	991.7	914.5	884.5	876.0	880.2	878.8
17.5°	7472.1	6136.0	3305.2	1546.1	1010.3	891.7	848.8	828.8	825.9	830.2	831.7
20°	7417.8	5828.7	2673.6	1203.2	896.0	827.4	788.8	770.2	763.1	765.9	767.4
22.5°	7287.7	5451.5	2159.2	996.0	820.2	768.8	727.3	698.8	687.3	688.8	688.8
25°	7084.8	5004.2	1689.0	861.7	758.8	705.9	657.3	624.5	617.3	615.9	618.7
27.5°	6824.7	4509.8	1344.7	758.8	685.9	635.9	587.3	560.2	554.4	555.9	557.3
30°	6568.9	3996.8	1060.3	671.6	604.5	557.3	520.1	507.3	507.3	511.6	513.0
32.5°	6334.6	3503.8	838.8	595.9	531.6	488.7	467.3	465.8	473.0	475.8	477.3
35°	6133.1	3048.0	694.5	537.3	474.4	437.3	430.1	435.8	444.4	450.1	451.6
37.5°	5990.2	2640.7	607.3	488.7	430.1	400.1	398.7	410.1	421.5	434.4	437.3
40°	5930.2	2296.3	547.3	445.8	394.4	371.5	367.2	383.0	404.4	423.0	425.8
42.5°	5880.2	2014.8	495.9	404.4	365.8	332.9	331.5	351.5	377.2	395.8	400.1
45°	5837.3	1789.1	448.7	360.1	328.7	285.8	290.1	315.8	335.8	355.8	360.1
47.5°	5748.7	1603.3	397.3	312.9	271.5	244.4	252.9	275.8	291.5	321.5	325.8
50°	5590.1	1451.8	344.4	255.8	221.5	211.5	224.3	240.1	260.1	285.8	288.7
52.5°	5482.9	1337.5	298.7	214.3	182.9	185.8	198.6	204.3	215.8	225.8	222.9
55°	5421.5	1274.6	261.5	185.8	155.8	164.3	167.2	160.0	154.3	144.3	140.0
57.5°	5414.3	1217.5	232.9	161.5	137.2	141.5	131.5	107.2	87.2	75.7	72.9
60°	5402.9	1147.5	210.1	135.8	121.5	115.7	94.3	58.6	41.4	38.6	38.6
62.5°	5278.6	1038.9	192.9	114.3	102.9	87.2	54.3	27.2	22.9	24.3	24.3
65°	4882.8	887.4	175.8	92.9	81.5	62.9	27.2	15.7	8.6	10.0	10.0
67.5°	4151.1	707.3	157.2	71.4	61.4	40.0	15.7	7.1	0.0	0.0	0.0
70°	2779.3	438.7	132.9	50.0	40.0	24.3	11.4	1.4	0.0	0.0	0.0
72.5°	1066.0	237.2	107.2	30.0	25.7	17.1	7.1	0.0	0.0	0.0	0.0
75°	240.1	155.8	74.3	21.4	18.6	11.4	2.9	0.0	0.0	0.0	0.0
77.5°	91.5	112.9	42.9	14.3	12.9	7.1	0.0	0.0	0.0	0.0	0.0
80°	44.3	67.2	20.0	8.6	7.1	2.9	0.0	0.0	0.0	0.0	0.0
82.5°	22.9	25.7	8.6	4.3	2.9	0.0	0.0	0.0	0.0	0.0	0.0
85°	12.9	12.9	4.3	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	7.1	4.3	1.4	1.4	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)