

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: P321881

Luminaire Tested: **GAN-SA7B-730-U-T2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321881
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-13)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA7B-730-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26189 lumens
Efficiency: N/A
Efficacy: 88.8 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G4

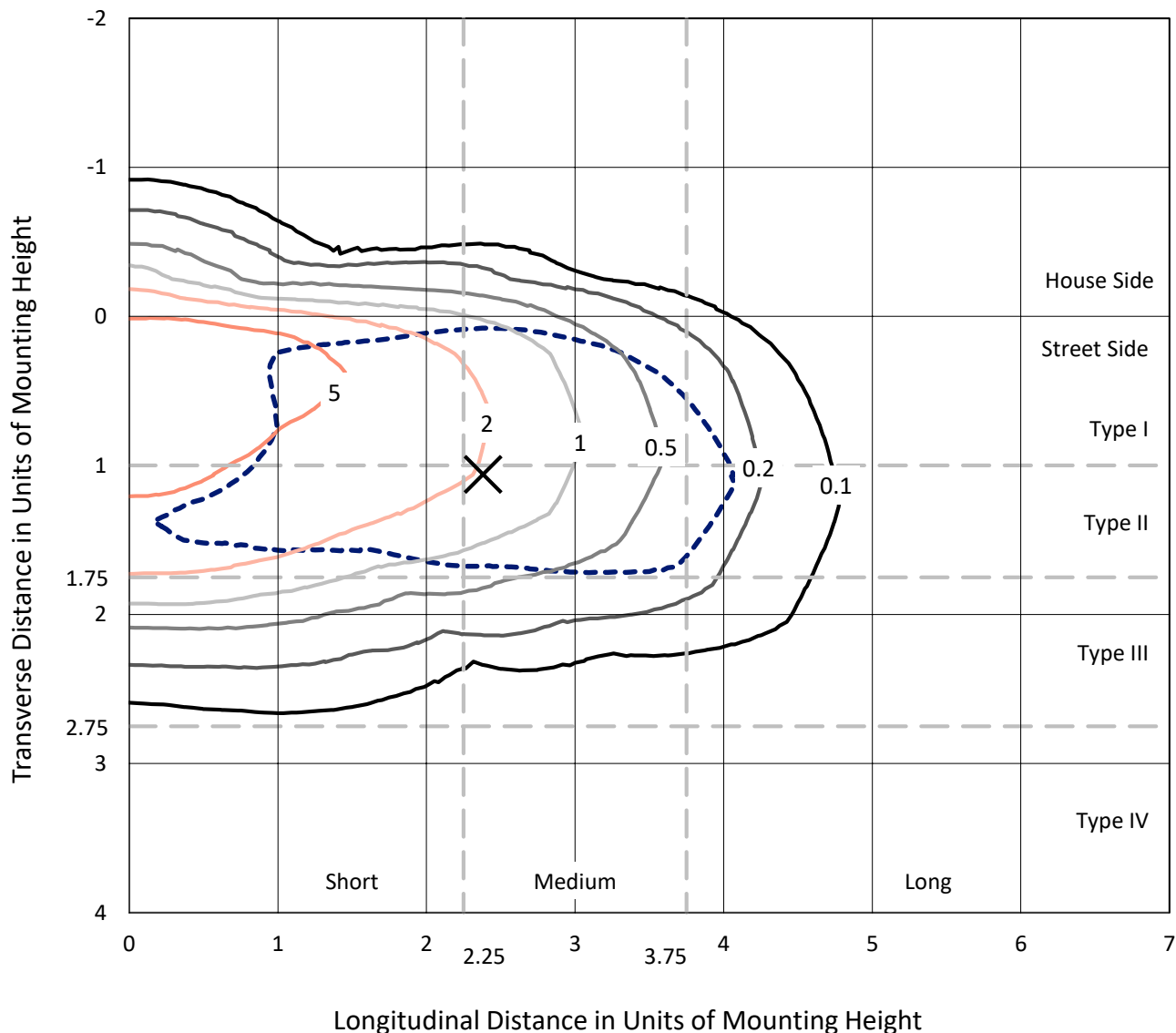
Input Watts (W): 295
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

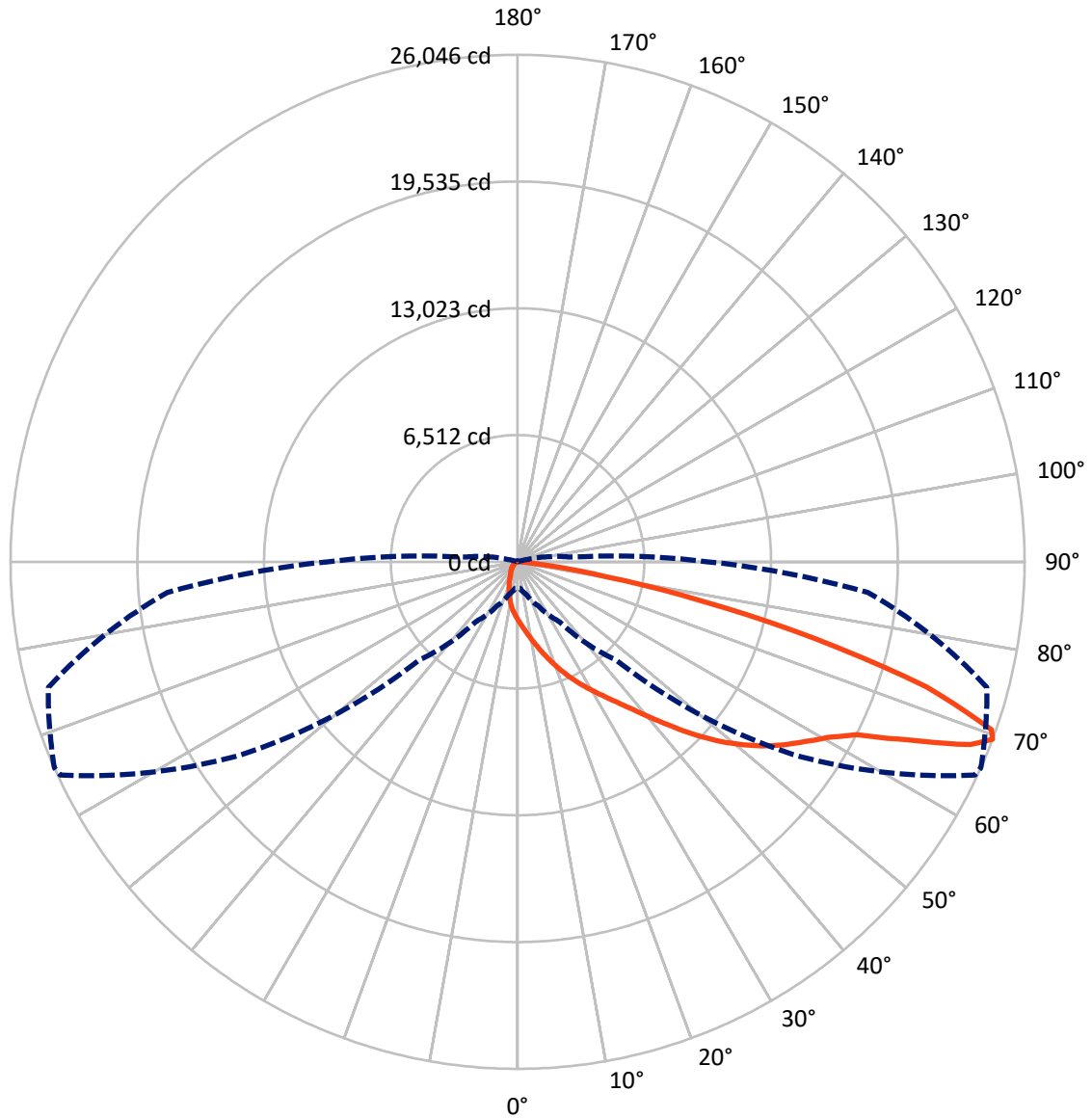
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.9 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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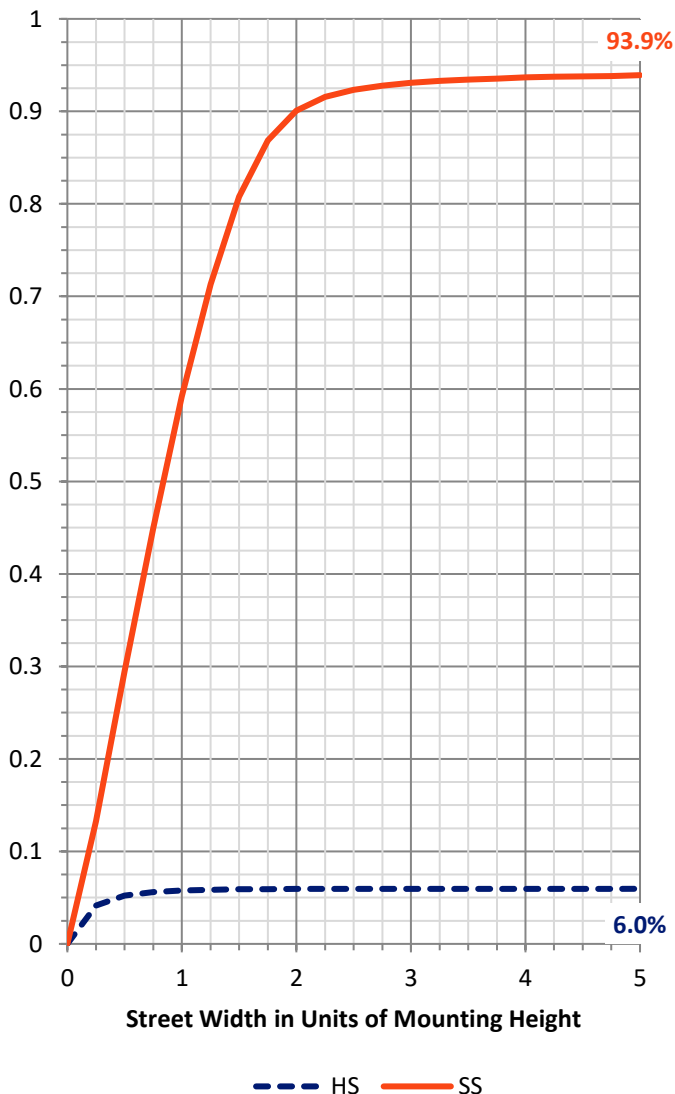
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1571.0	0.0	1571.0
	% Fixture	6.0	0.0	6.0
Street Side	Lumens	24618.0	0.0	24618.0
	% Fixture	94.0	0.0	94.0
Total	Lumens	26189.0	0.0	26189.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	288.1	1.1
10°-20°	857.4	3.3
20°-30°	1493.1	5.7
30°-40°	2619.6	10.0
40°-50°	4384.8	16.7
50°-60°	6445.3	24.6
60°-70°	6617.7	25.3
70°-80°	3267.0	12.5
80°-90°	216.0	0.8
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°	26189.0	100.0
0°-180°	26189.0	100.0

Coefficient of Utilization

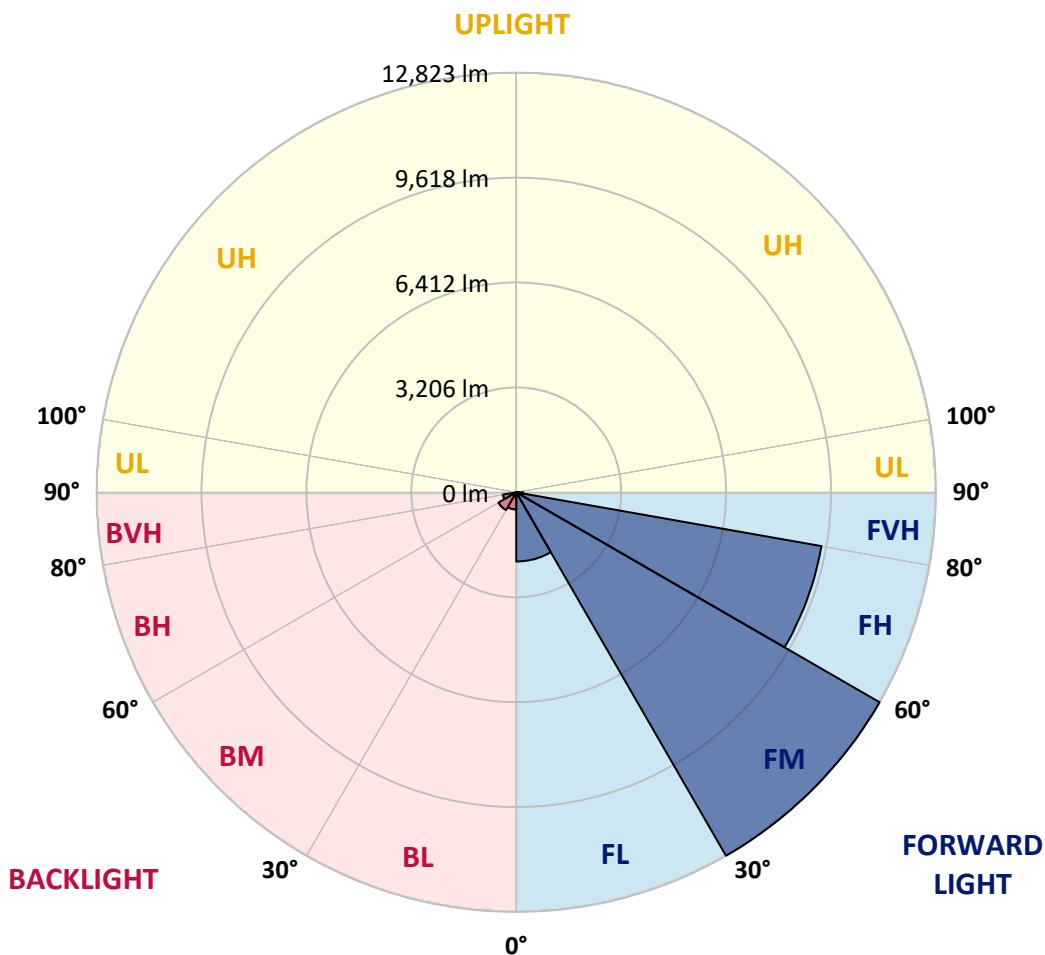


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2113.2	8.1			
FM (30°-60°)	12823.4	49.0			
FH (60°-80°)	9470.7	36.2			G4/12000
FVH (80°-90°)	210.8	0.8			G2/225
BL (0°-30°)	525.4	2.0	B2/1000		
BM (30°-60°)	626.4	2.4	B1/1000		
BH (60°-80°)	414.0	1.6	B1/500		G1/500
BVH (80°-90°)	5.2	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°	66°	75°	85°
0°	2980.4	2980.4	2980.4	2980.4	2980.4	2980.4	2980.4	2980.4	2980.4	2980.4	2980.4
2.5°	3507.8	3492.9	3486.7	3459.3	3412.0	3376.0	3306.3	3225.4	3210.5	3132.1	3036.4
5°	3963.1	3950.6	3941.9	3903.4	3854.9	3764.1	3637.2	3486.7	3458.1	3308.8	3117.2
7.5°	4280.3	4302.7	4302.7	4277.8	4216.8	4148.4	3992.9	3787.7	3751.6	3522.7	3225.4
10°	4465.6	4493.0	4514.1	4535.3	4526.6	4499.2	4352.4	4121.1	4077.5	3774.0	3351.1
12.5°	4483.0	4510.4	4570.1	4658.4	4744.2	4806.4	4714.4	4490.5	4440.7	4065.1	3500.3
15°	4386.0	4414.6	4506.7	4678.3	4886.1	5067.7	5097.5	4899.7	4848.7	4412.1	3686.9
17.5°	4216.8	4235.5	4367.3	4604.9	4930.8	5264.2	5444.6	5338.8	5291.6	4808.9	3894.7
20°	4091.2	4104.9	4220.6	4475.6	4903.5	5387.3	5773.0	5805.3	5755.5	5234.3	4119.8
22.5°	4306.4	4331.3	4335.0	4455.7	4828.8	5448.3	6061.5	6264.3	6227.0	5685.9	4341.2
25°	4894.8	4923.4	4828.8	4754.2	4892.3	5475.7	6309.1	6734.5	6704.6	6172.2	4563.9
27.5°	5672.2	5702.1	5580.2	5357.5	5224.4	5578.9	6529.2	7212.2	7210.9	6687.2	4804.0
30°	6436.0	6465.8	6341.4	6118.8	5812.8	5871.2	6719.6	7712.2	7719.7	7218.4	5059.0
32.5°	7237.0	7274.3	7146.2	6860.1	6540.4	6376.2	6987.0	8214.7	8257.0	7834.1	5346.3
35°	8147.6	8152.5	7972.2	7672.4	7304.2	7051.7	7416.2	8778.2	8879.0	8596.6	5710.8
37.5°	9040.7	9076.8	8928.7	8456.1	8117.7	7831.6	8054.3	9482.3	9625.3	9528.3	6187.2
40°	9702.4	9778.3	9757.2	9247.2	8926.3	8722.2	8846.6	10319.4	10501.0	10613.0	6788.0
42.5°	10117.9	10175.1	10272.2	9964.9	9673.8	9707.4	9782.1	11294.6	11518.5	11849.4	7478.3
45°	10594.3	10621.7	10702.5	10567.0	10370.4	10708.8	10774.7	12393.0	12628.1	13179.2	8244.6
47.5°	11176.5	11241.2	11263.5	11139.2	11049.6	11594.4	11731.3	13391.9	13721.5	14603.4	9055.6
50°	11917.8	11935.3	11973.8	11893.0	11803.4	12355.7	12589.5	14440.5	14740.3	16032.7	9855.4
52.5°	12643.0	12705.2	12839.6	12788.6	12752.5	13003.8	13354.5	15385.8	15720.4	17224.3	10654.0
55°	12852.0	12905.5	13369.5	13686.7	13980.2	13802.4	14086.0	16232.9	16594.9	18289.1	11422.8
57.5°	12017.3	12125.6	12929.1	13755.1	14972.9	15043.8	15091.0	17102.4	17427.1	19105.1	12222.6
60°	9907.7	9928.8	11247.4	12664.2	14808.7	16127.2	16558.8	18036.6	18309.0	19865.1	13180.4
62.5°	6301.6	6516.8	7963.5	9963.7	13072.2	15970.5	18333.9	19449.7	19549.2	20776.9	14553.7
65°	3001.5	3140.9	4183.2	6156.1	9468.6	13964.1	19559.1	22005.9	22050.7	22584.3	16388.4
67.5°	1661.9	1729.0	2225.3	3313.8	5535.4	9875.3	19064.1	25033.6	25075.8	24430.3	17998.0
69°	1299.9	1357.1	1747.7	2497.8	3752.9	7097.7	17251.7	25920.5	26046.1	24958.9	18055.3
70°	1103.3	1159.3	1505.1	2109.7	3017.7	5484.4	15356.0	25700.3	25833.4	24909.2	17628.6
72.5°	675.4	707.8	1002.6	1485.2	2022.6	2759.0	9469.8	21734.7	21959.9	22849.3	15150.7
75°	455.3	472.7	626.9	1025.0	1446.7	1420.5	4919.6	15319.9	15807.5	17774.1	11190.2
77.5°	325.9	342.1	420.4	663.0	1013.8	937.9	2227.8	9520.8	9625.3	10660.3	6102.6
80°	185.3	200.3	297.3	394.3	687.9	625.7	885.7	4547.7	4600.0	4571.3	2037.5
82.5°	97.0	109.5	163.0	260.0	441.6	409.2	368.2	1522.5	1530.0	1272.5	446.6
85°	18.7	22.4	80.9	177.9	227.6	177.9	150.5	357.0	364.5	322.2	110.7
87.5°	0.0	1.2	32.3	39.8	44.8	46.0	48.5	69.7	74.6	100.8	29.9
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°	2980.4	2980.4	2980.4	2980.4	2980.4	2980.4	2980.4	2980.4	2980.4	2980.4	2980.4
2.5°	2994.1	2949.3	2863.5	2764.0	2686.8	2611.0	2551.2	2489.1	2466.7	2455.5	2454.2
5°	3023.9	2929.4	2747.8	2561.2	2408.2	2263.9	2160.7	2062.4	2016.4	1995.2	1986.5
7.5°	3073.7	2921.9	2629.6	2344.8	2124.6	1944.2	1801.2	1694.2	1640.7	1618.3	1609.6
10°	3132.1	2912.0	2491.5	2115.9	1834.8	1648.2	1506.4	1400.6	1342.2	1317.3	1304.9
12.5°	3200.6	2894.6	2332.3	1884.5	1587.2	1400.6	1229.0	1098.4	1031.2	1002.6	988.9
15°	3285.1	2877.1	2165.6	1666.8	1369.5	1141.9	954.1	865.8	852.1	847.1	848.3
17.5°	3368.5	2849.8	1984.0	1451.6	1140.7	891.9	796.1	791.1	793.6	793.6	793.6
20°	3443.1	2787.6	1786.2	1267.5	923.0	752.6	732.7	724.0	717.7	712.8	706.5
22.5°	3501.6	2704.2	1595.9	1084.7	753.8	689.1	658.0	630.7	608.3	593.3	585.9
25°	3541.4	2593.5	1421.8	909.3	677.9	626.9	571.0	524.9	490.1	469.0	460.2
27.5°	3571.2	2474.1	1266.3	761.3	625.7	554.8	481.4	426.7	390.6	371.9	364.5
30°	3592.4	2338.5	1129.5	669.2	567.2	478.9	400.5	347.0	320.9	311.0	306.0
32.5°	3612.3	2188.0	1000.1	625.7	512.5	409.2	335.9	294.8	278.6	266.2	262.5
35°	3662.1	2048.7	877.0	579.7	456.5	349.5	288.6	258.7	242.6	235.1	232.6
37.5°	3780.2	1945.5	758.8	532.4	400.5	302.3	252.5	231.4	216.4	209.0	206.5
40°	3970.5	1893.2	659.3	481.4	345.8	266.2	228.9	209.0	192.8	181.6	179.1
42.5°	4250.4	1900.7	589.6	430.4	302.3	237.6	206.5	182.9	165.4	155.5	153.0
45°	4590.0	1955.4	541.1	380.6	266.2	215.2	181.6	156.7	140.6	131.9	129.4
47.5°	4958.2	2043.7	501.3	335.9	237.6	194.0	156.7	130.6	116.9	109.5	108.2
50°	5346.3	2129.6	460.2	292.3	212.7	172.9	131.9	108.2	97.0	90.8	88.3
52.5°	5739.4	2229.1	422.9	252.5	191.6	148.0	109.5	88.3	79.6	74.6	72.1
55°	6162.3	2303.7	386.9	221.4	170.4	125.6	90.8	73.4	65.9	59.7	58.5
57.5°	6659.9	2419.4	349.5	191.6	145.5	104.5	74.6	58.5	52.2	46.0	44.8
60°	7331.6	2555.0	309.7	169.2	119.4	85.8	61.0	47.3	39.8	34.8	33.6
62.5°	8217.2	2705.5	260.0	148.0	97.0	69.7	48.5	37.3	28.6	22.4	22.4
65°	9340.5	2950.5	212.7	124.4	79.6	57.2	37.3	27.4	16.2	10.0	10.0
67.5°	9996.0	2992.8	171.7	102.0	64.7	48.5	31.1	18.7	5.0	1.2	0.0
69°	9785.8	2747.8	145.5	87.1	56.0	46.0	28.6	13.7	2.5	0.0	0.0
70°	9390.2	2512.7	128.1	77.1	51.0	43.5	27.4	10.0	2.5	0.0	0.0
72.5°	7759.5	1788.7	97.0	57.2	37.3	38.6	24.9	6.2	2.5	0.0	0.0
75°	5652.3	1087.2	69.7	39.8	23.6	28.6	17.4	2.5	1.2	0.0	0.0
77.5°	3144.6	512.5	43.5	22.4	14.9	17.4	8.7	0.0	0.0	0.0	0.0
80°	1021.2	139.3	19.9	12.4	8.7	10.0	3.7	0.0	0.0	0.0	0.0
82.5°	189.1	39.8	11.2	6.2	2.5	2.5	0.0	0.0	0.0	0.0	0.0
85°	41.0	16.2	6.2	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	13.7	5.0	1.2	0.0	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)