

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: P321593

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321593
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-11)
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-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32043 lumens
Efficiency: N/A
Efficacy: 110.5 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

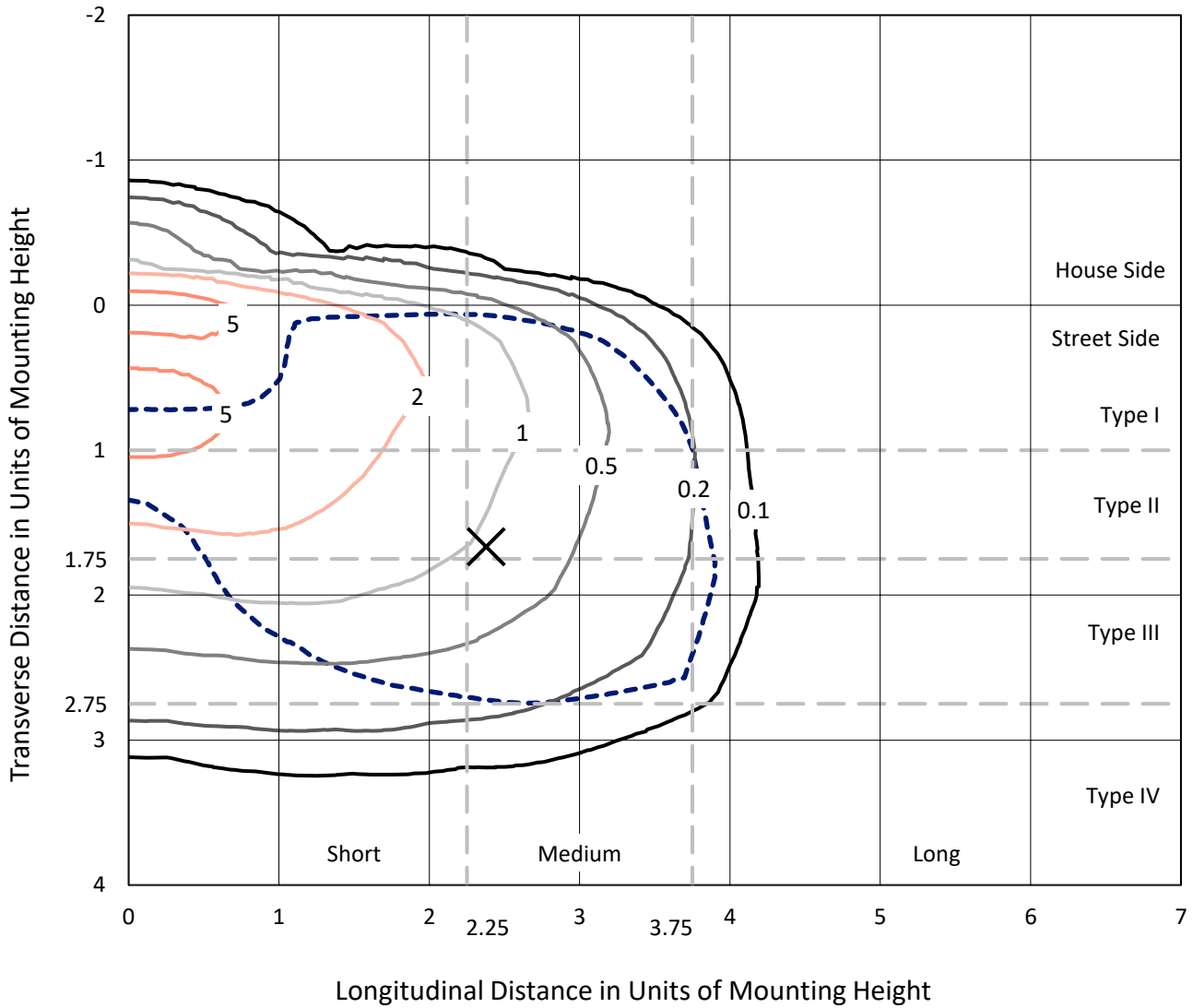
Input Watts (W): 290
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

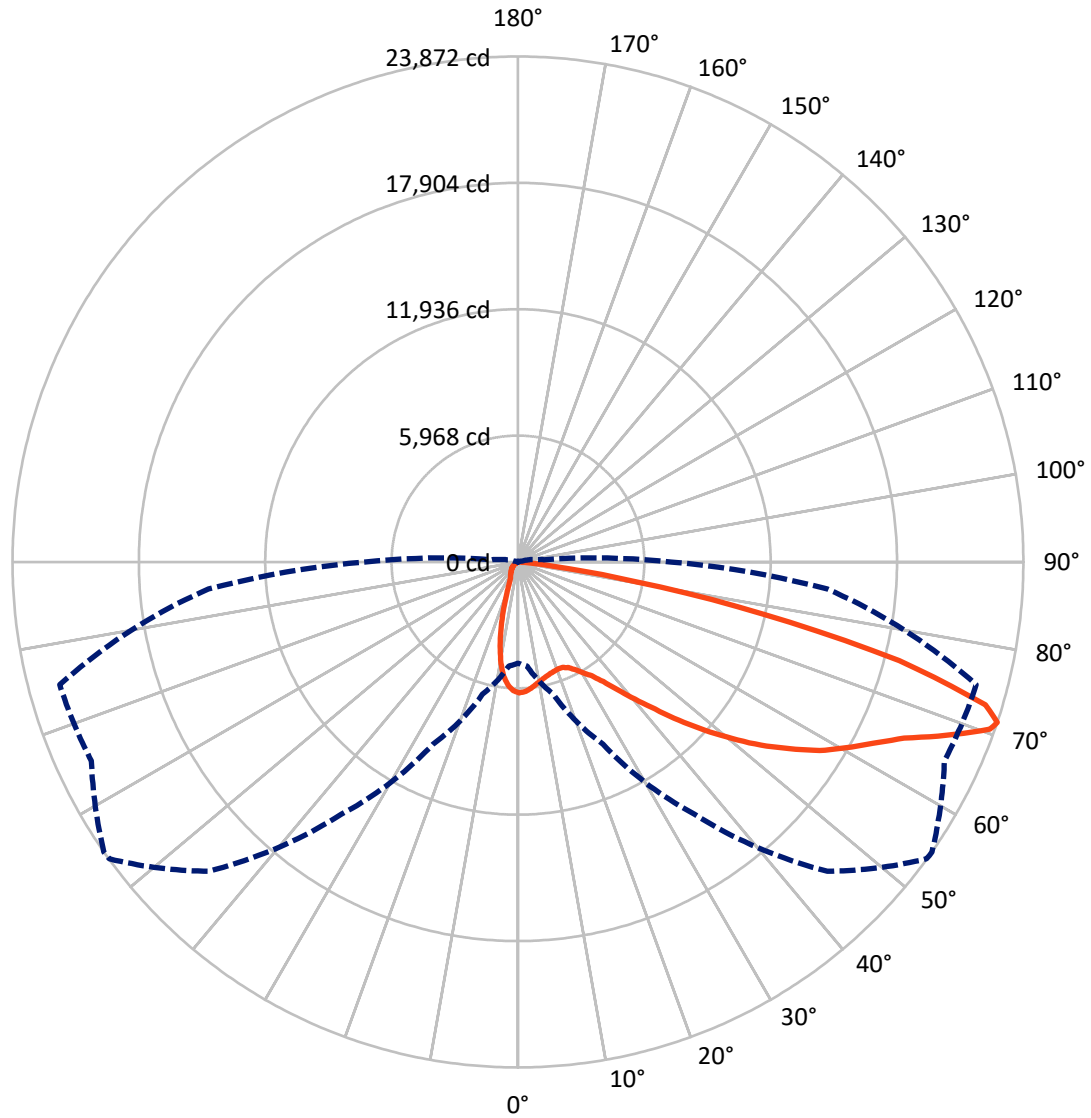
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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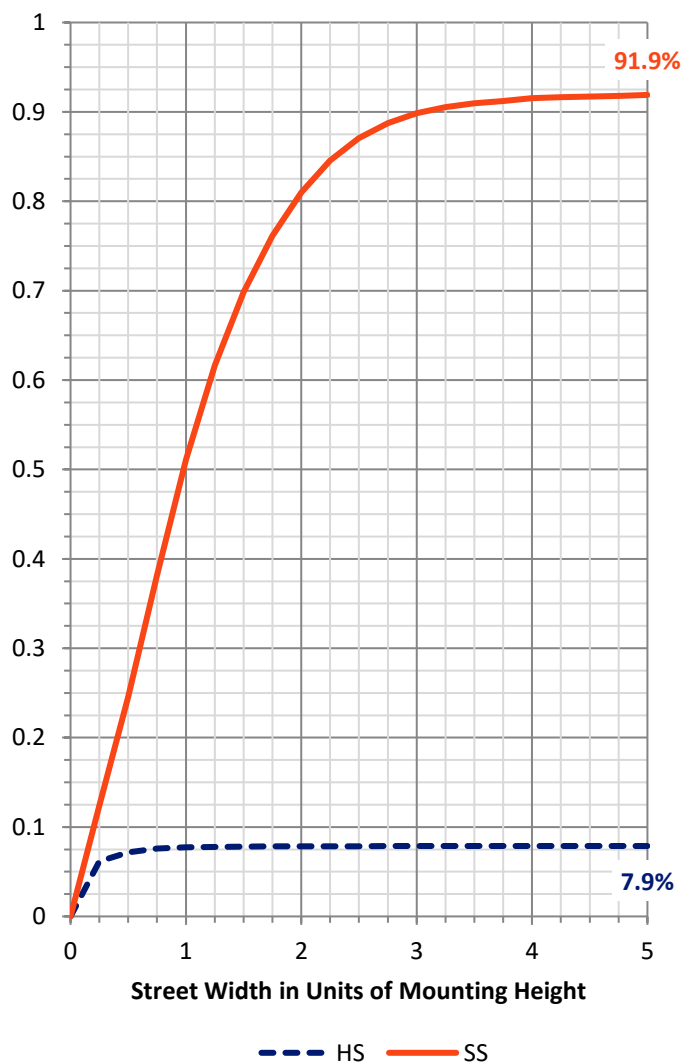
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2536.9	0.0	2536.9
	% Fixture	7.9	0.0	7.9
Street Side	Lumens	29506.1	0.0	29506.1
	% Fixture	92.1	0.0	92.1
Total	Lumens	32043.0	0.0	32043.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	526.9	1.6
10°-20°	1189.5	3.7
20°-30°	1911.6	6.0
30°-40°	3247.9	10.1
40°-50°	5041.1	15.7
50°-60°	6777.6	21.2
60°-70°	8291.2	25.9
70°-80°	4847.7	15.1
80°-90°	209.6	0.7
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°	32043.0	100.0
0°-180°	32043.0	100.0

Coefficient of Utilization

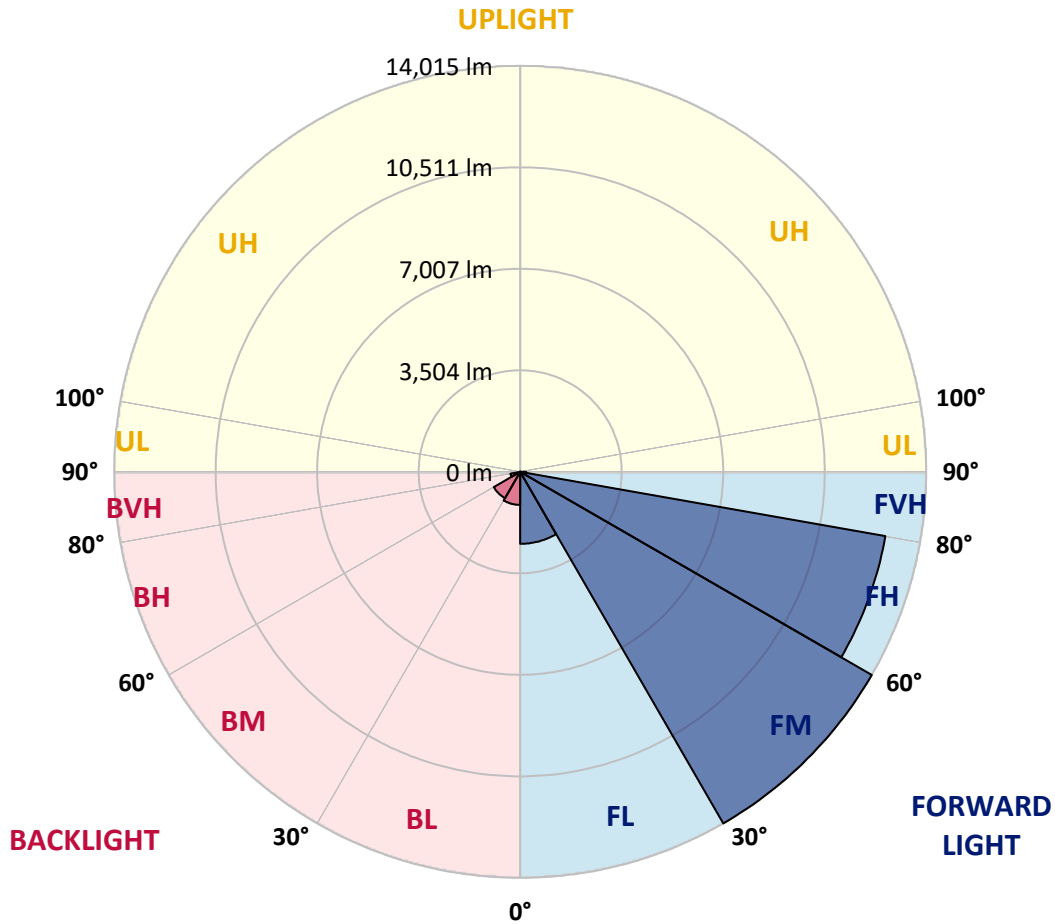


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2486.1	7.8			
FM (30°-60°)	14014.7	43.7			
FH (60°-80°)	12799.1	39.9			G5
FVH (80°-90°)	206.2	0.6			G2/225
BL (0°-30°)	1141.9	3.6	B3/2500		
BM (30°-60°)	1051.9	3.3	B2/2500		
BH (60°-80°)	339.9	1.1	B1/500		G1/500
BVH (80°-90°)	3.3	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	6179.6	6179.6	6179.6	6179.6	6179.6	6179.6	6179.6	6179.6	6179.6	6179.6	6179.6
2.5°	5998.3	6005.5	6031.4	6042.9	6070.3	6116.3	6139.3	6140.8	6178.2	6192.6	6204.1
5°	5573.9	5617.0	5660.2	5706.2	5789.7	5900.5	6009.8	6019.9	6140.8	6230.0	6277.4
7.5°	5208.4	5247.3	5299.1	5372.4	5490.4	5664.5	5847.2	5868.8	6097.6	6300.5	6406.9
10°	4832.9	4864.6	4939.4	5047.3	5209.9	5442.9	5689.0	5724.9	6058.7	6395.4	6582.5
12.5°	4431.5	4450.2	4540.8	4696.2	4935.1	5231.4	5555.2	5602.7	6034.3	6504.8	6789.7
15°	4126.5	4135.1	4221.4	4382.6	4655.9	5041.5	5451.6	5509.1	6040.0	6635.7	7015.5
17.5°	4048.8	4053.1	4099.1	4209.9	4451.6	4871.7	5369.6	5440.1	6057.3	6763.8	7242.9
20°	4363.9	4333.6	4286.2	4268.9	4372.5	4769.6	5320.6	5399.8	6080.3	6877.4	7447.2
22.5°	5228.6	5139.4	4942.2	4678.9	4519.2	4776.8	5333.6	5412.7	6153.7	7017.0	7683.1
25°	6512.0	6388.2	6053.0	5535.0	5037.2	4984.0	5441.5	5522.1	6296.1	7183.9	7909.0
27.5°	7972.3	7850.0	7440.0	6700.4	5851.6	5394.0	5689.0	5763.8	6507.7	7332.1	8081.7
30°	9370.8	9336.3	8852.9	8012.6	6876.0	6058.7	6008.4	6071.7	6664.5	7421.3	8218.4
32.5°	10556.4	10501.7	10113.3	9296.0	8048.6	6857.3	6383.9	6402.6	6782.5	7536.4	8396.8
35°	11655.6	11588.0	11247.0	10474.4	9251.4	7832.8	6962.3	6935.0	7040.0	7768.0	8655.8
37.5°	12615.3	12677.2	12298.8	11563.6	10330.5	8847.1	7742.1	7660.1	7442.9	8145.0	9031.3
40°	13418.2	13418.2	13221.1	12608.1	11495.9	9896.0	8624.1	8516.2	8048.6	8726.3	9507.5
42.5°	13707.4	13769.2	13842.6	13495.9	12539.1	10986.6	9606.8	9494.6	8901.8	9550.7	10108.9
45°	13724.6	13822.5	14198.0	14196.6	13481.5	12070.0	10714.7	10661.4	9995.3	10609.6	10854.2
47.5°	13481.5	13603.8	14222.4	14573.5	14228.2	13078.6	11926.1	11860.0	11280.1	11907.4	11634.1
50°	13105.9	13241.2	13960.6	14721.7	14736.1	13956.3	13202.3	13103.1	12694.5	13390.8	12439.8
52.5°	12434.0	12695.9	13726.1	14756.2	15069.9	14714.5	14416.7	14373.5	14277.1	14819.5	13081.5
55°	10996.7	11287.3	13137.6	14767.8	15379.2	15386.4	15554.8	15566.3	15760.5	16154.7	13559.2
57.5°	10317.6	10481.6	12110.3	14822.4	15838.2	16149.0	16714.4	16803.6	17104.3	17422.3	14104.5
60°	9890.2	10084.5	11603.8	14747.6	16559.0	17149.0	17789.2	17819.4	18141.7	18730.2	14842.6
62.5°	9549.3	9740.6	11284.4	14459.8	17369.1	18351.8	18839.5	18842.4	19084.1	20288.4	15681.4
65°	8707.6	8868.7	10638.4	14136.1	17904.3	19541.7	20059.6	20040.9	20238.0	21931.5	16655.4
67.5°	7490.3	7614.1	9319.0	12908.8	17702.9	20623.6	21901.3	21839.4	21600.6	23351.6	17038.2
70°	5791.1	5835.7	7345.0	10757.8	15815.2	21039.4	23681.1	23649.4	22436.5	23096.9	15635.3
71°	4786.9	4933.6	6473.1	9494.6	14550.5	20655.3	23853.7	23872.4	22226.4	22403.4	14669.9
72.5°	2779.7	2904.9	4691.9	7291.8	12353.5	19052.5	22958.8	23094.0	21245.2	20377.6	12530.4
75°	595.7	637.4	1739.5	3529.4	6795.4	13353.4	18121.6	18603.6	17315.9	13862.8	7552.2
77.5°	414.4	447.5	745.3	1601.4	2246.0	6598.3	11257.1	11801.0	10344.9	5209.9	2417.2
80°	328.0	365.5	581.3	791.3	607.2	2128.0	5273.2	5605.5	3450.2	1162.5	407.2
82.5°	182.7	217.3	453.2	427.3	233.1	404.3	1476.2	1669.0	690.6	234.5	96.4
85°	53.2	64.7	292.1	310.8	99.3	77.7	251.8	312.2	130.9	61.9	43.2
87.5°	0.0	0.0	141.0	119.4	28.8	11.5	23.0	25.9	25.9	25.9	28.8
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°	6179.6	6179.6	6179.6	6179.6	6179.6	6179.6	6179.6	6179.6	6179.6	6179.6	6179.6
2.5°	6204.1	6214.1	6178.2	6130.7	6080.3	6018.5	5953.7	5903.4	5901.9	5877.5	5853.0
5°	6280.3	6274.6	6175.3	6024.2	5845.8	5660.2	5483.2	5283.2	5217.1	5135.0	5107.7
7.5°	6421.3	6381.0	6171.0	5840.1	5448.7	5060.2	4658.8	4254.5	4081.9	3926.5	3899.1
10°	6598.3	6522.0	6143.6	5563.8	4845.8	4129.3	3523.6	2974.0	2732.3	2546.7	2538.0
12.5°	6782.5	6665.9	6067.4	5146.6	4056.0	3048.8	2351.0	1810.0	1608.6	1479.1	1490.6
15°	6975.3	6801.2	5903.4	4584.0	3156.7	2069.0	1444.5	1126.6	1046.0	1012.9	1021.5
17.5°	7172.4	6894.7	5674.6	3906.3	2269.0	1335.2	1000.0	910.8	910.8	917.9	920.8
20°	7343.6	6945.0	5337.9	3146.6	1538.1	972.6	874.8	861.8	869.0	880.5	882.0
22.5°	7513.4	6947.9	4899.1	2376.9	1076.2	851.8	833.1	827.3	831.6	844.6	846.0
25°	7651.5	6913.4	4349.5	1690.6	859.0	802.8	794.2	791.3	794.2	810.0	810.0
27.5°	7707.6	6788.2	3679.0	1188.4	769.8	748.2	745.3	748.2	752.5	764.0	765.4
30°	7713.4	6569.5	2948.1	860.4	697.8	674.8	680.5	690.6	686.3	683.4	686.3
32.5°	7727.7	6316.3	2235.9	707.9	637.4	601.4	594.2	594.2	577.0	566.9	561.1
35°	7775.2	6018.5	1621.5	635.9	575.5	533.8	506.5	474.8	441.7	424.4	420.1
37.5°	7850.0	5706.2	1161.1	588.5	520.8	473.4	421.6	365.5	318.0	305.0	305.0
40°	7986.7	5384.0	859.0	551.1	477.7	418.7	341.0	267.6	224.5	217.3	217.3
42.5°	8202.5	5044.4	684.9	518.0	440.3	362.6	260.4	194.2	162.6	158.3	156.8
45°	8427.0	4670.3	598.5	486.3	400.0	297.8	192.8	143.9	125.2	120.9	120.9
47.5°	8651.5	4271.8	556.8	456.1	361.1	231.6	143.9	113.7	105.0	105.0	106.5
50°	8841.4	3856.0	526.6	423.0	310.8	175.5	113.7	96.4	93.5	99.3	100.7
52.5°	8888.9	3447.3	489.2	381.3	248.9	133.8	93.5	84.9	84.9	84.9	84.9
55°	8860.1	3130.8	440.3	329.5	184.2	106.5	80.6	74.8	73.4	73.4	73.4
57.5°	8957.9	2943.8	352.5	256.1	132.4	86.3	70.5	66.2	63.3	61.9	61.9
60°	9155.0	2821.5	251.8	184.2	99.3	71.9	60.4	56.1	51.8	48.9	48.9
62.5°	9416.9	2715.0	187.0	136.7	76.3	57.6	50.4	46.0	40.3	37.4	37.4
65°	9618.3	2525.1	142.4	102.2	57.6	46.0	38.8	37.4	28.8	25.9	24.5
67.5°	9310.4	2107.8	115.1	74.8	43.2	36.0	30.2	28.8	17.3	14.4	14.4
70°	7985.3	1467.6	92.1	54.7	31.7	28.8	24.5	18.7	12.9	11.5	11.5
71°	7241.4	1225.8	83.4	46.0	27.3	27.3	23.0	15.8	11.5	10.1	10.1
72.5°	6015.6	870.5	70.5	36.0	24.5	28.8	24.5	14.4	11.5	10.1	8.6
75°	3491.9	364.0	48.9	24.5	18.7	34.5	31.7	12.9	8.6	7.2	7.2
77.5°	1050.3	133.8	27.3	15.8	14.4	30.2	36.0	11.5	4.3	1.4	1.4
80°	191.4	57.6	17.3	10.1	10.1	18.7	27.3	5.8	0.0	0.0	0.0
82.5°	67.6	28.8	10.1	5.8	4.3	8.6	12.9	0.0	0.0	0.0	0.0
85°	38.8	20.1	5.8	2.9	0.0	1.4	2.9	0.0	0.0	0.0	0.0
87.5°	25.9	5.8	0.0	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)