

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: P324793

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324793
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-SA9A-740-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 4000K, 615mA 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: 34106 lumens
Efficiency: N/A
Efficacy: 117.6 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G3

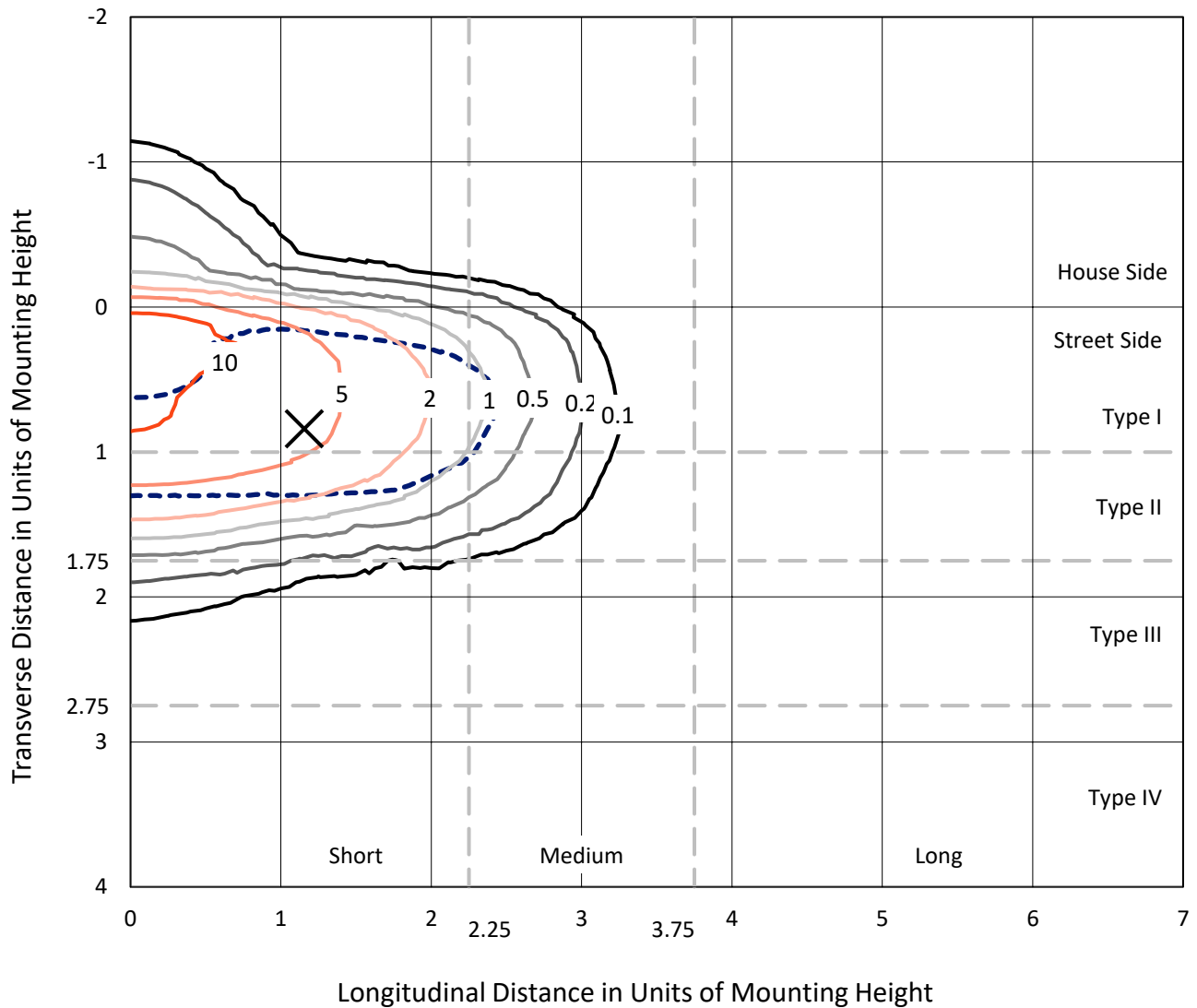
Input Watts (W): 290
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

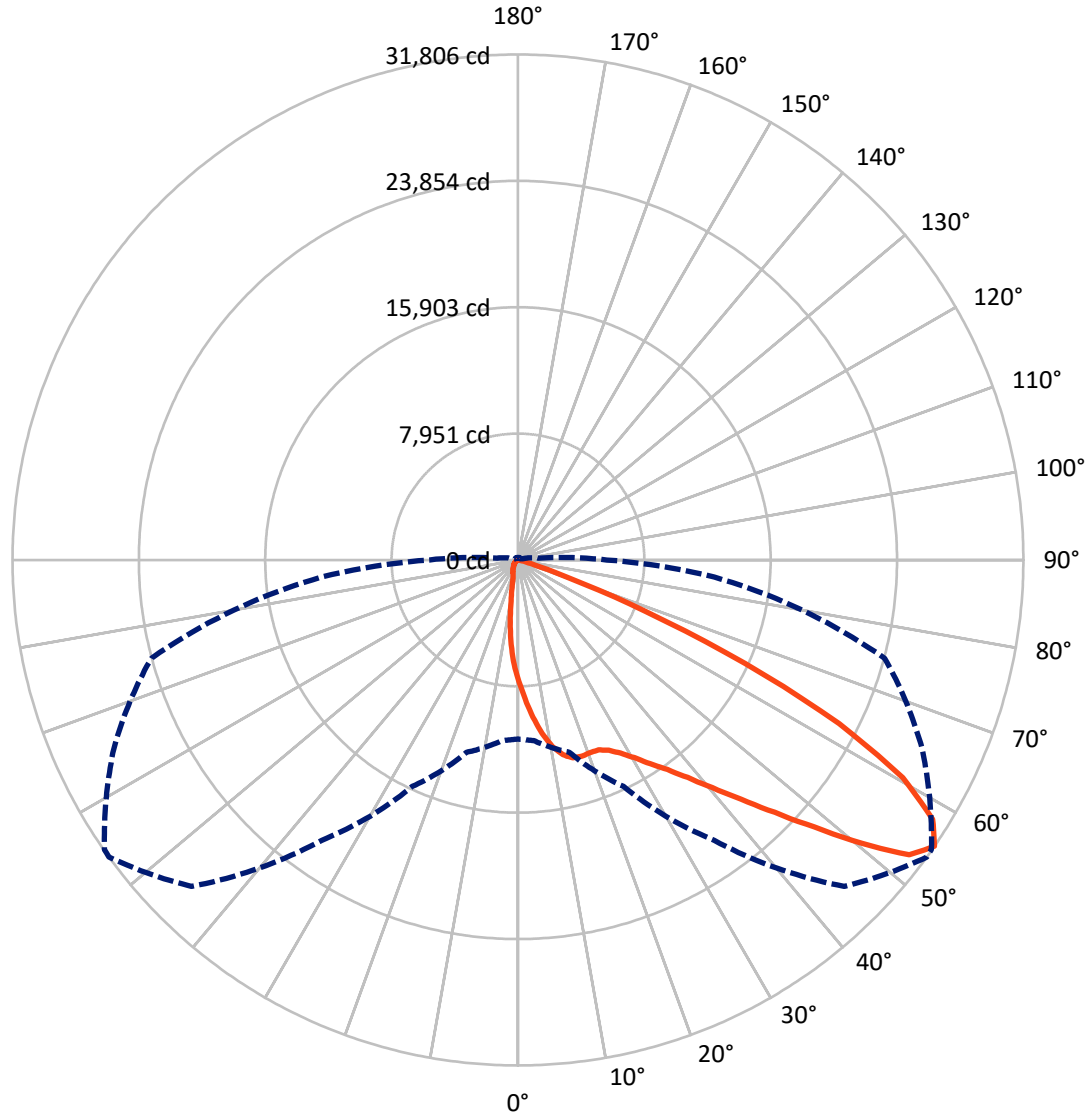
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 13 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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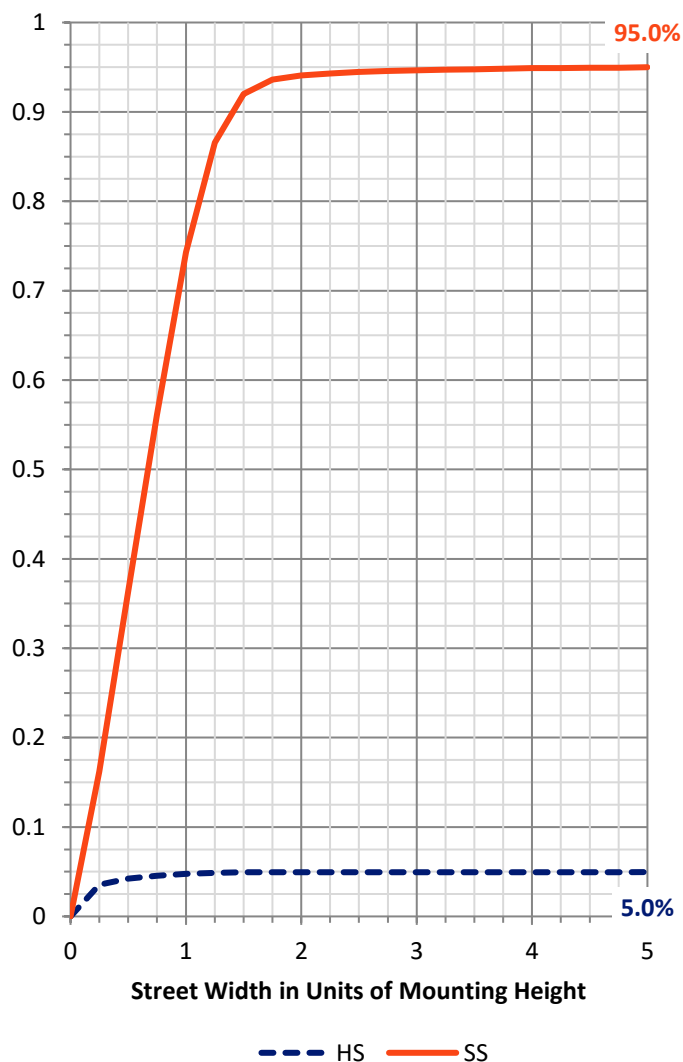
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1701.6	0.0	1701.6
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	32404.4	0.0	32404.4
	% Fixture	95.0	0.0	95.0
Total	Lumens	34106.0	0.0	34106.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	703.4	2.1
10°-20°	1929.1	5.7
20°-30°	3293.6	9.7
30°-40°	5285.7	15.5
40°-50°	8446.6	24.8
50°-60°	9050.8	26.5
60°-70°	4646.9	13.6
70°-80°	703.9	2.1
80°-90°	45.8	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°	34106.0	100.0
0°-180°	34106.0	100.0

Coefficient of Utilization

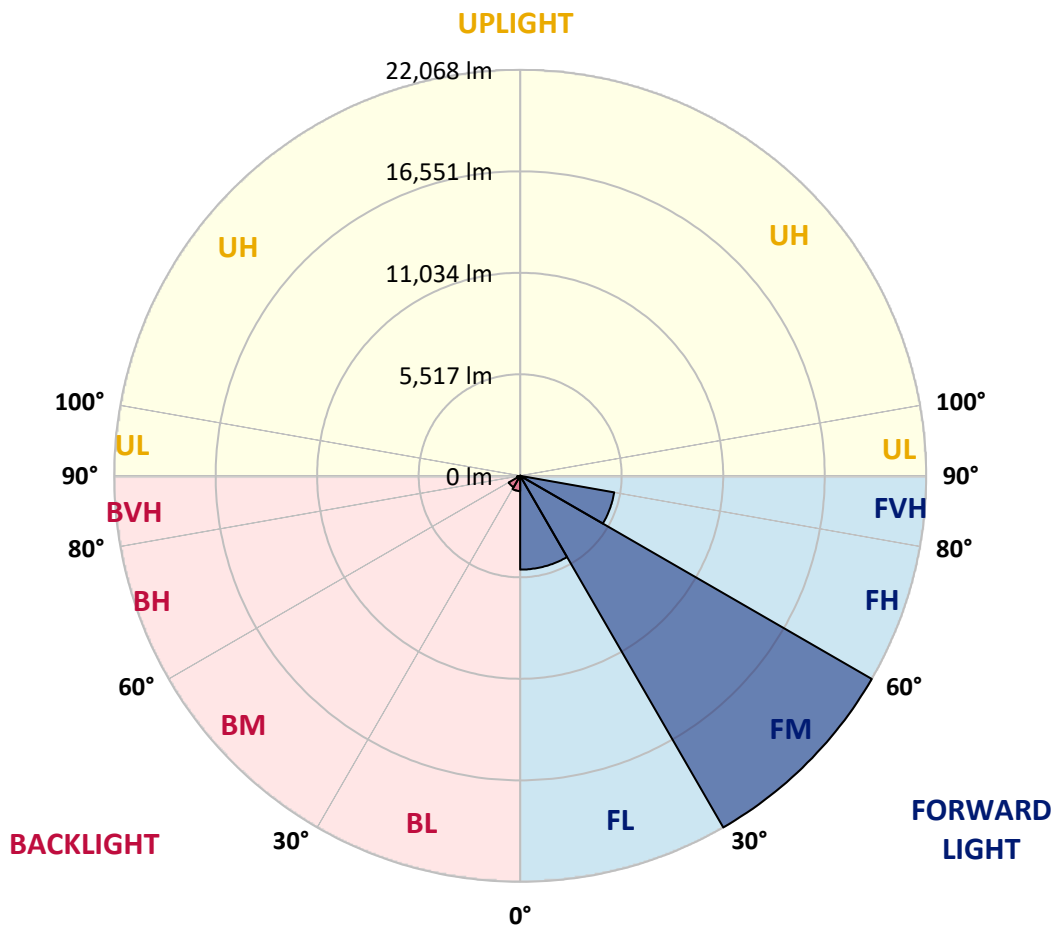


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5098.3	14.9			
FM (30°-60°)	22068.1	64.7			
FH (60°-80°)	5194.0	15.2			G3/7500
FVH (80°-90°)	44.0	0.1			G1/100
BL (0°-30°)	827.9	2.4	B2/1000		
BM (30°-60°)	715.1	2.1	B1/1000		
BH (60°-80°)	156.8	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°	7638.4	7638.4	7638.4	7638.4	7638.4	7638.4	7638.4	7638.4	7638.4	7638.4	7638.4
2.5°	9585.5	9442.7	9447.1	9382.3	9145.1	8959.6	8766.6	8720.9	8420.5	8105.3	7801.9
5°	11242.5	11137.9	11112.9	10987.7	10657.8	10308.7	9934.6	9847.7	9260.0	8614.9	7980.1
7.5°	12093.8	12095.3	12074.7	12029.0	11822.8	11484.1	11027.5	10936.2	10136.4	9168.7	8165.7
10°	11846.4	11902.4	12017.3	12169.0	12326.6	12283.9	11940.7	11858.2	10989.2	9754.9	8371.9
12.5°	11269.0	11276.4	11404.5	11653.5	12107.1	12572.5	12578.4	12550.4	11803.7	10367.6	8598.7
15°	10981.8	11009.8	11056.9	11217.5	11647.6	12392.8	12926.0	12965.8	12550.4	11018.6	8840.2
17.5°	11170.4	11210.1	11170.4	11189.5	11438.4	12108.6	12986.4	13088.0	13202.9	11662.3	9068.5
20°	11681.4	11718.3	11647.6	11569.5	11618.1	12026.1	12943.7	13080.7	13714.0	12233.8	9260.0
22.5°	12370.8	12385.5	12278.0	12149.8	12114.5	12305.9	12979.1	13120.4	14123.5	12750.8	9380.8
25°	13129.3	13142.5	13008.5	12861.2	12777.3	12855.3	13269.2	13375.3	14484.3	13244.2	9450.0
27.5°	13955.6	13967.4	13799.4	13618.3	13521.1	13524.0	13747.9	13861.3	14868.8	13806.8	9506.0
30°	14829.0	14823.1	14668.4	14416.6	14292.9	14289.9	14437.2	14552.1	15425.5	14528.5	9582.6
32.5°	15809.9	15798.2	15578.7	15266.4	15126.5	15147.1	15278.2	15344.5	16116.3	15297.4	9719.6
35°	17101.7	17067.8	16736.4	16349.0	16091.3	16083.9	16194.4	16247.4	16997.1	16228.2	9947.9
37.5°	18777.8	18746.9	18297.6	17735.0	17372.7	17237.2	17368.2	17436.0	18253.4	17422.7	10314.6
40°	20430.4	20399.4	20132.8	19617.3	19059.1	18733.6	18836.7	18908.9	19822.1	18872.1	10777.1
42.5°	21570.4	21596.9	21689.7	21732.4	21209.5	20526.1	20573.2	20648.4	21470.2	20421.5	11305.9
45°	21870.9	21928.3	22452.6	23482.2	23678.1	23144.9	22651.5	22692.7	23144.9	21971.0	11834.6
47.5°	20968.0	21074.0	22085.9	24000.6	25659.1	26036.2	25102.4	25047.9	24751.8	23224.4	12210.2
50°	18916.2	19013.5	20324.3	23156.7	26260.0	28796.4	28039.3	27878.7	26161.4	23974.1	12342.8
52.5°	15946.9	16064.7	17129.6	20499.6	25127.4	30027.7	30820.1	30686.1	27195.3	24033.0	12364.9
55°	11261.7	11404.5	12531.3	15711.3	21538.0	29048.2	31805.5	31765.7	28054.0	23876.9	12412.0
57.5°	6329.0	6432.1	7647.2	10071.6	15774.6	25301.2	30775.9	31039.6	28572.5	23605.9	12482.7
60°	2810.3	2838.2	3467.2	5013.7	9235.0	19336.0	27828.7	28273.5	28127.7	23243.6	12602.0
62.5°	1558.3	1534.7	1534.7	2084.1	4013.6	11970.1	22692.7	23427.7	26229.1	22815.0	12607.9
65°	1221.0	1198.9	1135.6	1144.4	1528.9	5312.7	15714.2	17020.6	22623.5	21558.6	12183.7
67.5°	1035.4	1016.3	953.0	927.9	950.0	1752.7	8634.0	9990.6	17166.5	18293.2	10553.2
70°	874.9	861.6	829.2	798.3	742.3	866.1	3303.7	4225.7	10578.3	12169.0	7203.9
72.5°	704.0	698.1	709.9	683.4	615.7	577.4	1129.7	1368.3	4751.5	5430.5	2967.9
75°	606.8	603.9	609.8	583.3	506.7	402.1	574.4	627.4	1340.3	1328.5	600.9
77.5°	394.7	399.2	505.2	493.4	436.0	268.1	297.5	321.1	406.5	304.9	182.6
80°	251.9	248.9	256.3	409.5	391.8	204.7	148.8	156.1	195.9	150.2	88.4
82.5°	153.2	150.2	167.9	191.5	197.4	142.9	91.3	92.8	122.2	97.2	47.1
85°	13.3	17.7	101.6	94.3	67.8	44.2	44.2	47.1	64.8	57.4	26.5
87.5°	0.0	0.0	17.7	26.5	14.7	16.2	16.2	17.7	25.0	25.0	13.3
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°	7638.4	7638.4	7638.4	7638.4	7638.4	7638.4	7638.4	7638.4	7638.4	7638.4	7638.4
2.5°	7644.3	7491.1	7181.8	6884.3	6632.4	6389.4	6112.5	5838.5	5710.4	5658.8	5605.8
5°	7657.5	7342.3	6704.6	6062.4	5396.6	4797.2	4286.1	3761.7	3499.6	3384.7	3331.7
7.5°	7675.2	7195.0	6164.0	5085.9	4013.6	3200.6	2490.6	2034.1	1836.7	1805.8	1729.2
10°	7678.1	7016.8	5536.6	4007.7	2691.0	1929.5	1484.7	1249.0	1162.1	1147.4	1122.3
12.5°	7684.0	6806.2	4839.9	2967.9	1794.0	1290.2	1073.7	995.7	972.1	970.6	970.6
15°	7701.7	6585.3	4116.7	2138.6	1288.8	1022.2	942.6	911.7	902.9	907.3	905.8
17.5°	7701.7	6324.6	3406.8	1593.7	1041.3	919.1	874.9	854.3	851.3	855.7	857.2
20°	7645.7	6007.9	2755.8	1240.2	923.5	852.8	813.0	793.9	786.5	789.5	790.9
22.5°	7511.7	5619.1	2225.5	1026.6	845.4	792.4	749.7	720.2	708.5	709.9	709.9
25°	7302.6	5158.0	1740.9	888.1	782.1	727.6	677.5	643.7	636.3	634.8	637.8
27.5°	7034.5	4648.4	1386.0	782.1	707.0	655.4	605.4	577.4	571.5	573.0	574.4
30°	6770.8	4119.7	1092.9	692.3	623.0	574.4	536.1	522.9	522.9	527.3	528.8
32.5°	6529.3	3611.5	864.6	614.2	547.9	503.7	481.6	480.2	487.5	490.5	491.9
35°	6321.6	3141.7	715.8	553.8	489.0	450.7	443.3	449.2	458.1	464.0	465.4
37.5°	6174.3	2721.9	626.0	503.7	443.3	412.4	410.9	422.7	434.5	447.8	450.7
40°	6112.5	2366.9	564.1	459.5	406.5	382.9	378.5	394.7	416.8	436.0	438.9
42.5°	6060.9	2076.8	511.1	416.8	377.1	343.2	341.7	362.3	388.8	408.0	412.4
45°	6016.7	1844.1	462.5	371.2	338.8	294.6	299.0	325.5	346.1	366.7	371.2
47.5°	5925.4	1652.6	409.5	322.6	279.8	251.9	260.7	284.3	300.5	331.4	335.8
50°	5761.9	1496.4	355.0	263.6	228.3	218.0	231.2	247.4	268.1	294.6	297.5
52.5°	5651.5	1378.6	307.8	220.9	188.5	191.5	204.7	210.6	222.4	232.7	229.8
55°	5588.1	1313.8	269.5	191.5	160.5	169.4	172.3	165.0	159.1	148.8	144.3
57.5°	5580.8	1254.9	240.1	166.4	141.4	145.8	135.5	110.5	89.8	78.1	75.1
60°	5569.0	1182.7	216.5	139.9	125.2	119.3	97.2	60.4	42.7	39.8	39.8
62.5°	5440.8	1070.8	198.8	117.8	106.0	89.8	56.0	28.0	23.6	25.0	25.0
65°	5032.8	914.7	181.2	95.7	84.0	64.8	28.0	16.2	8.8	10.3	10.3
67.5°	4278.7	729.1	162.0	73.6	63.3	41.2	16.2	7.4	0.0	0.0	0.0
70°	2864.8	452.2	137.0	51.6	41.2	25.0	11.8	1.5	0.0	0.0	0.0
72.5°	1098.8	244.5	110.5	30.9	26.5	17.7	7.4	0.0	0.0	0.0	0.0
75°	247.4	160.5	76.6	22.1	19.1	11.8	2.9	0.0	0.0	0.0	0.0
77.5°	94.3	116.4	44.2	14.7	13.3	7.4	0.0	0.0	0.0	0.0	0.0
80°	45.7	69.2	20.6	8.8	7.4	2.9	0.0	0.0	0.0	0.0	0.0
82.5°	23.6	26.5	8.8	4.4	2.9	0.0	0.0	0.0	0.0	0.0	0.0
85°	13.3	13.3	4.4	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	7.4	4.4	1.5	1.5	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)