

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: P481643

Luminaire Tested: **IFLD-S-SA6B-735-U-T2-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481643
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6B-735-U-T2-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens with House Side Shield
Light Source: (96) 3500K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

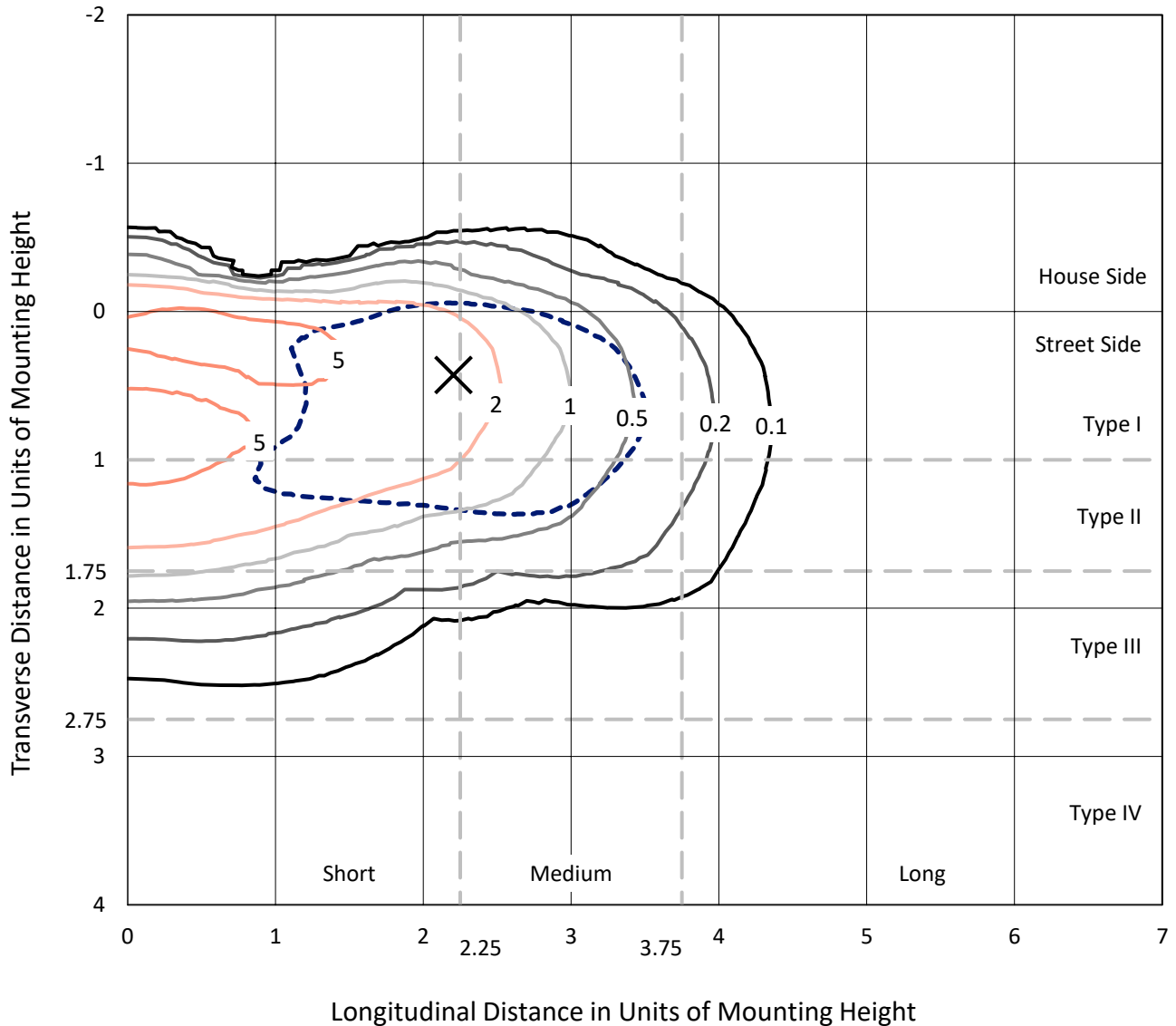
Lumens per Lamp: N/A
Luminaire Lumens: 23708.7 lumens
Efficiency: N/A
Efficacy: 96.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 244.9
Input Voltage (V): 120
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

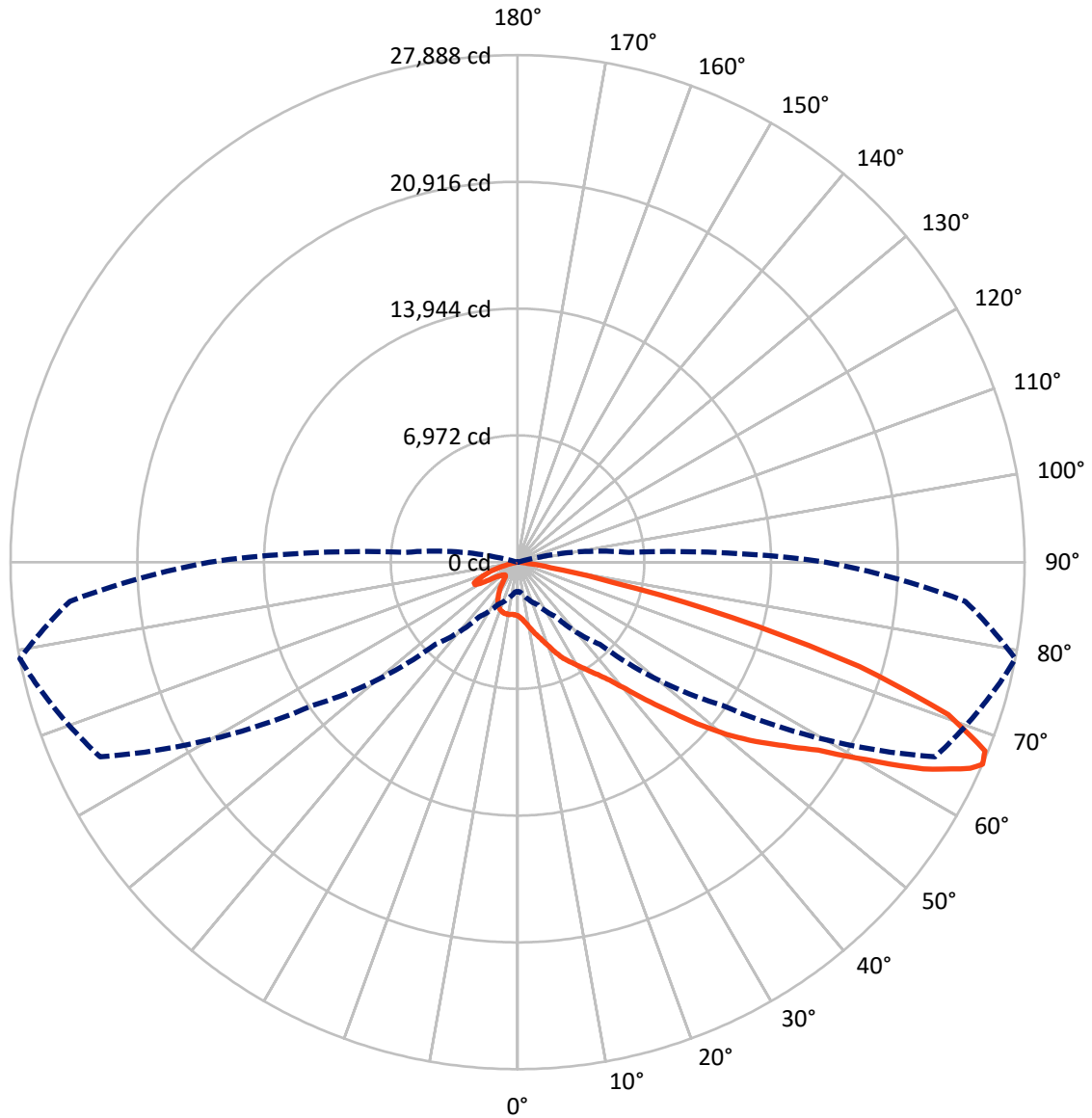
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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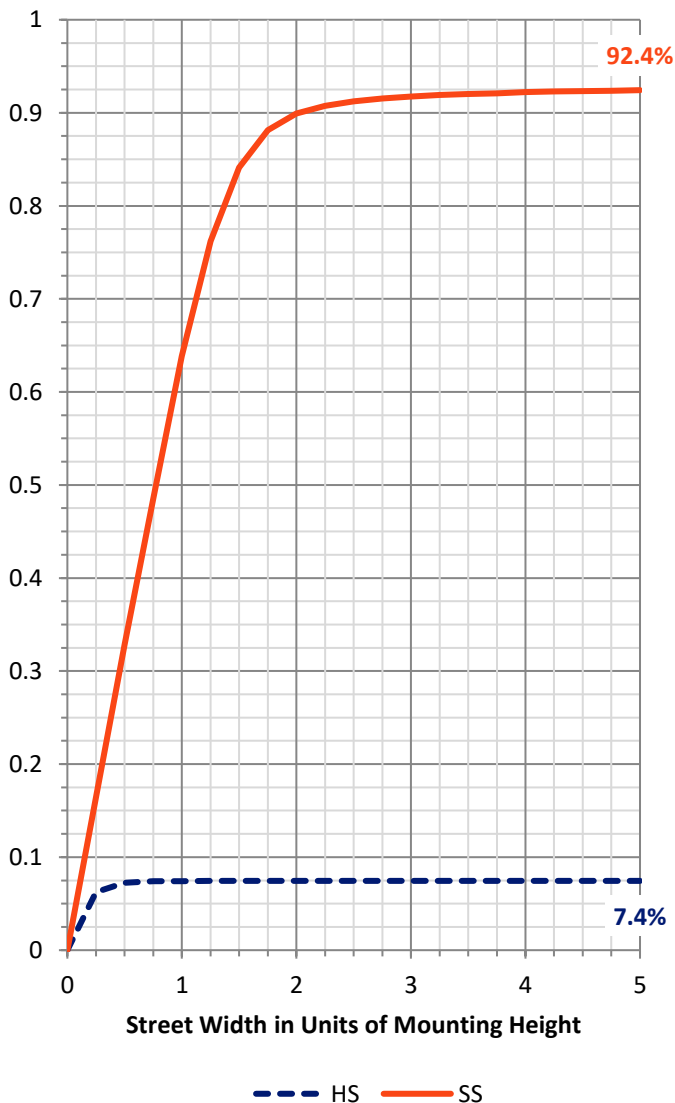
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1780.2	0.0	1780.2
	% Fixture	7.5	0.0	7.5
Street Side	Lumens	21928.5	0.0	21928.5
	% Fixture	92.5	0.0	92.5
Total	Lumens	23708.7	0.0	23708.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	279.0	1.2
10°-20°	767.7	3.2
20°-30°	1275.4	5.4
30°-40°	2190.6	9.2
40°-50°	3968.6	16.7
50°-60°	6273.2	26.5
60°-70°	6383.4	26.9
70°-80°	2434.3	10.3
80°-90°	136.5	0.6
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°	23708.7	100.0
0°-180°	23708.7	100.0



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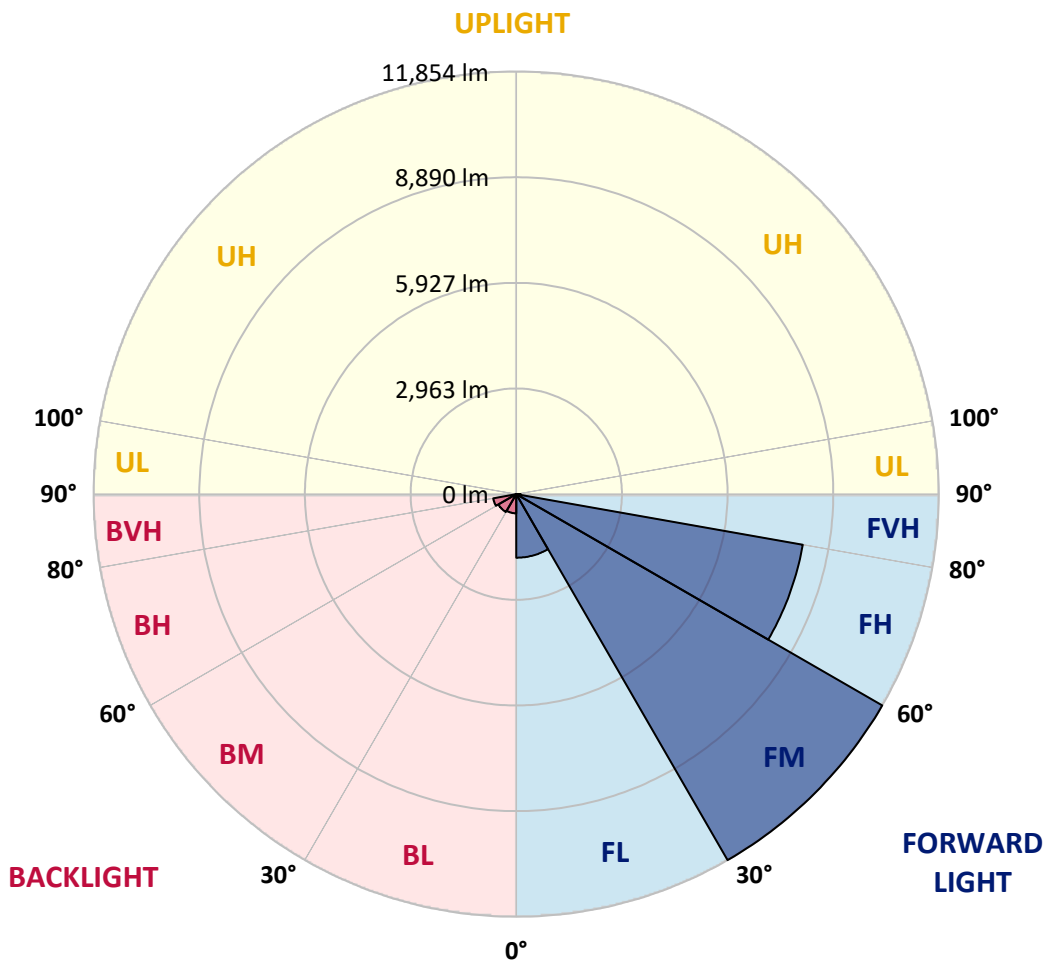
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1783.7	7.5			
FM (30°-60°)	11853.8	50.0			
FH (60°-80°)	8161.5	34.4			G4/12000
FVH (80°-90°)	129.5	0.5			G2/225
BL (0°-30°)	538.4	2.3	B2/1000		
BM (30°-60°)	578.6	2.4	B1/1000		
BH (60°-80°)	656.3	2.8	B2/1000		G2/1000
BVH (80°-90°)	7.0	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 Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	2949.6	2949.6	2949.6	2949.6	2949.6	2949.6	2949.6	2949.6	2949.6	2949.6	2949.6
2.5°	3340.7	3337.1	3322.5	3296.9	3264.0	3253.0	3205.5	3139.7	3103.2	3062.9	3044.7
5°	3571.0	3552.7	3596.6	3578.3	3585.6	3497.9	3439.4	3391.9	3253.0	3198.2	3110.5
7.5°	3622.2	3640.5	3636.8	3666.0	3695.3	3728.2	3688.0	3618.5	3479.6	3399.2	3304.2
10°	3622.2	3614.9	3644.1	3684.3	3768.4	3841.5	3951.1	3859.8	3753.8	3658.7	3486.9
12.5°	3556.4	3545.4	3574.7	3658.7	3808.6	3958.4	4079.1	4166.8	4016.9	3940.2	3717.2
15°	3355.4	3344.4	3465.0	3614.9	3812.2	4057.1	4309.3	4451.9	4349.5	4228.9	3980.4
17.5°	3106.8	3121.4	3249.4	3497.9	3812.2	4104.6	4426.3	4737.0	4722.4	4568.8	4309.3
20°	3022.7	3033.7	3161.6	3340.7	3698.9	4137.5	4609.0	5047.7	5135.4	4952.6	4612.7
22.5°	3183.6	3172.6	3183.6	3293.2	3622.2	4108.3	4729.7	5402.2	5559.4	5416.8	5011.1
25°	3731.8	3724.5	3633.1	3465.0	3578.3	4042.5	4791.8	5636.1	5998.0	5866.4	5332.7
27.5°	4535.9	4506.7	4364.2	4013.3	3783.0	4082.7	4894.1	5862.7	6381.8	6231.9	5621.5
30°	5398.5	5329.1	5142.7	4704.1	4313.0	4232.6	4952.6	6030.9	6809.4	6619.3	5873.7
32.5°	5994.3	6085.7	6027.2	5581.3	4981.9	4579.8	5047.7	6242.9	7204.1	7079.9	6305.0
35°	6915.4	7021.4	6776.5	6381.8	5778.7	5131.7	5248.7	6414.6	7810.9	7602.5	6707.1
37.5°	8077.7	8158.1	7982.7	7233.4	6597.4	5811.6	5661.7	6772.8	8333.6	8234.9	7222.4
40°	8662.5	9050.0	8801.4	8125.2	7441.7	6761.9	6345.2	7193.2	9243.7	9163.3	7935.2
42.5°	9470.3	9664.0	9536.1	9035.3	8322.6	7778.0	7189.5	8011.9	10347.5	10347.5	8900.1
45°	10325.6	10332.9	10325.6	9916.2	9283.9	9002.4	8329.9	9039.0	11535.4	11667.0	10055.1
47.5°	11027.3	11246.7	11228.4	10983.5	10493.7	10387.7	9470.3	10208.6	13026.7	13256.9	11180.9
50°	11389.2	11634.1	11707.2	11835.1	11813.2	12036.1	10716.7	11564.6	14313.3	14879.8	12628.3
52.5°	11290.5	11308.8	11758.4	12262.8	13066.9	13691.9	12218.9	13103.4	15819.1	16378.4	13746.7
55°	10482.7	10413.3	11338.0	11915.5	13578.6	14704.3	14298.6	15022.3	16992.4	17844.1	14901.7
57.5°	8710.0	8728.3	9583.6	10756.9	13198.5	15106.4	16520.9	17529.7	18637.2	19496.1	16524.6
60°	6012.6	5990.7	6948.3	8304.3	10965.2	14357.1	17800.2	20779.1	20837.6	22054.7	19437.7
62.5°	3380.9	3388.3	4115.6	5274.3	7672.0	11732.8	17738.1	24229.5	23980.9	25048.2	22749.2
65°	1915.3	1962.8	2463.5	3125.1	4594.4	7876.7	15256.3	25603.8	26404.2	27354.5	24759.4
66°	1619.2	1652.1	2079.7	2580.5	3666.0	6389.1	13732.1	25336.9	27164.5	27888.2	24719.2
67.5°	1253.7	1297.6	1655.7	2046.8	2690.1	4422.6	11052.9	24010.2	27303.4	27727.4	24021.1
70°	858.9	888.2	1162.3	1553.4	1838.5	2262.5	6608.4	19850.7	24774.1	25132.3	20877.8
72.5°	603.1	617.7	815.1	1176.9	1414.5	1293.9	3278.6	14123.2	18958.9	19657.0	16239.5
75°	435.0	449.6	559.2	844.3	1103.8	848.0	1502.2	9020.7	11626.8	12175.0	9781.0
77.5°	314.3	332.6	380.1	544.6	800.5	595.8	738.3	4711.4	5482.6	5387.6	4207.0
80°	190.1	208.3	281.4	350.9	584.8	420.3	405.7	1966.4	1944.5	1845.8	1323.1
82.5°	87.7	102.3	149.9	237.6	409.4	292.4	193.7	701.8	614.1	562.9	372.8
85°	25.6	32.9	87.7	179.1	208.3	142.5	117.0	241.2	252.2	215.6	124.3
87.5°	0.0	3.7	40.2	43.9	62.1	47.5	43.9	62.1	117.0	95.0	40.2
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°	2949.6	2949.6	2949.6	2949.6	2949.6	2949.6	2949.6	2949.6	2949.6	2949.6	2949.6
2.5°	2978.9	2953.3	2891.2	2796.1	2712.1	2668.2	2606.1	2551.2	2522.0	2518.3	2514.7
5°	3052.0	2982.5	2832.7	2660.9	2533.0	2394.1	2299.0	2229.6	2163.8	2101.7	2138.2
7.5°	3150.7	3041.0	2796.1	2573.2	2295.4	2116.3	1948.2	1849.5	1791.0	1736.2	1728.8
10°	3304.2	3165.3	2770.5	2368.5	2050.5	1787.3	1615.5	1473.0	1392.6	1297.6	1334.1
12.5°	3512.5	3264.0	2675.5	2182.1	1772.7	1494.9	1250.0	1019.8	891.8	793.2	796.8
15°	3720.9	3395.6	2587.8	1955.5	1520.5	1155.0	796.8	639.6	603.1	581.2	588.5
17.5°	3925.5	3501.6	2452.6	1725.2	1231.8	734.7	581.2	548.3	530.0	508.1	508.1
20°	4174.1	3571.0	2284.4	1513.2	848.0	544.6	497.1	475.2	445.9	416.7	420.3
22.5°	4415.3	3629.5	2090.7	1242.7	570.2	471.5	416.7	387.4	361.9	332.6	332.6
25°	4656.6	3647.8	1838.5	891.8	460.5	376.5	325.3	285.1	259.5	233.9	237.6
27.5°	4821.0	3534.5	1600.9	570.2	369.2	285.1	226.6	193.7	171.8	146.2	146.2
30°	4916.1	3326.1	1345.1	402.1	277.8	193.7	135.2	102.3	80.4	62.1	58.5
32.5°	5011.1	3158.0	1056.3	307.0	182.8	102.3	51.2	18.3	0.0	0.0	0.0
35°	5201.2	2967.9	709.1	171.8	62.1	3.7	0.0	0.0	0.0	0.0	0.0
37.5°	5321.8	2704.8	325.3	25.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	5625.2	2573.2	80.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	6118.6	2481.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	6659.5	2445.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	7379.6	2543.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	8139.8	2810.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	8973.2	3062.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	9700.6	3366.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	11038.3	4082.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	13439.7	5489.9	3.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	16144.4	6535.3	40.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	17135.0	6509.7	69.4	3.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	16959.5	6151.5	69.4	3.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	16049.4	5464.3	62.1	7.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	13783.3	4514.0	62.1	11.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	10508.3	3516.2	58.5	14.6	3.7	0.0	0.0	0.0	0.0	0.0	0.0
75°	6341.5	1871.4	47.5	18.3	7.3	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	2525.7	657.9	36.6	14.6	7.3	0.0	0.0	0.0	0.0	0.0	0.0
80°	683.5	197.4	21.9	14.6	11.0	3.7	0.0	0.0	0.0	0.0	0.0
82.5°	179.1	73.1	18.3	14.6	7.3	3.7	0.0	0.0	0.0	0.0	0.0
85°	69.4	29.2	14.6	11.0	11.0	7.3	3.7	0.0	0.0	0.0	0.0
87.5°	21.9	11.0	11.0	7.3	7.3	3.7	3.7	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)