

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: P484749

Luminaire Tested: **IFLD-S-SA3C-735-U-SL4-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P484749
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3C-735-U-SL4-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens with House Side Shield
Light Source: (48) 3500K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

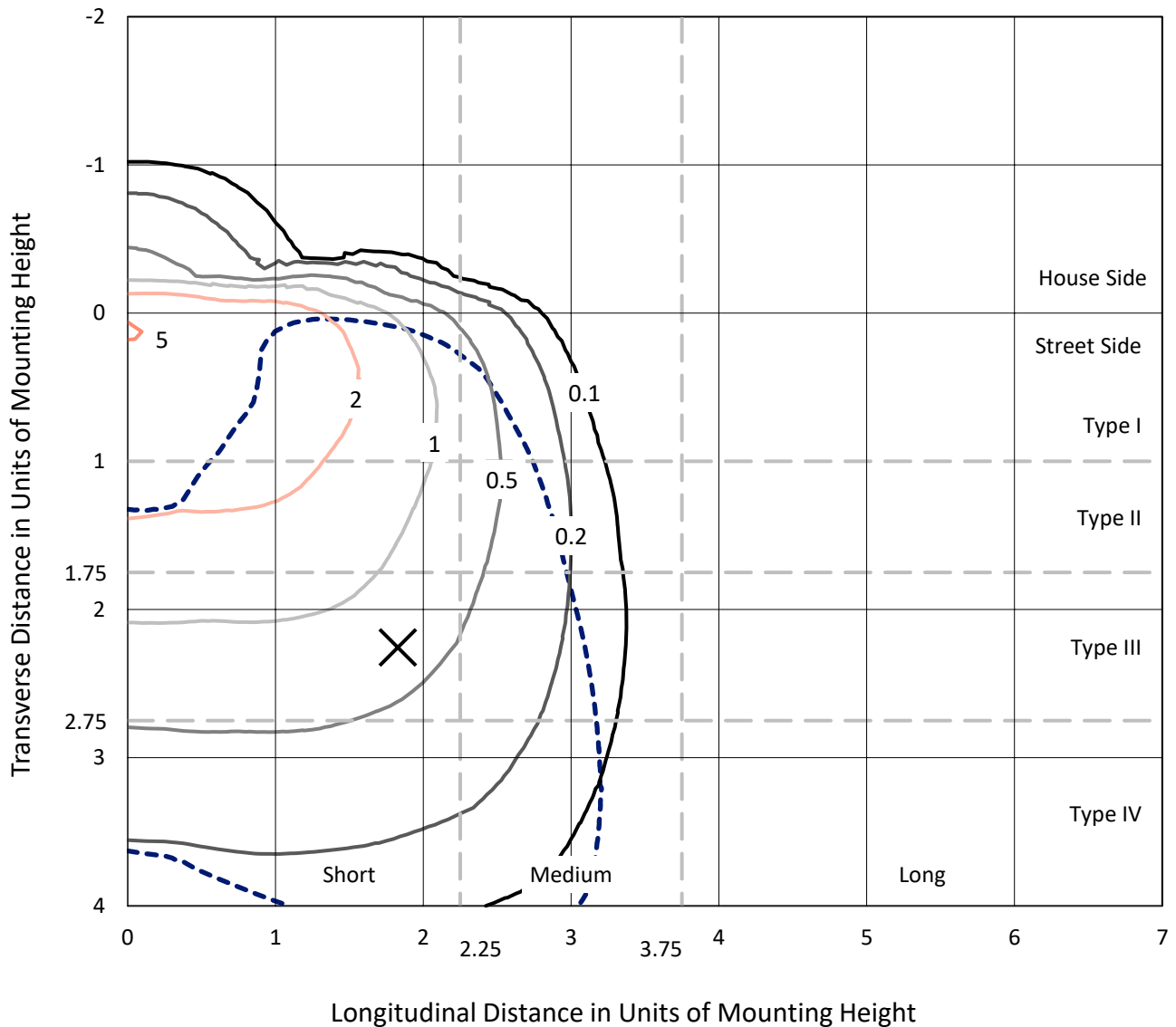
Lumens per Lamp: N/A
Luminaire Lumens: 17259.1 lumens
Efficiency: N/A
Efficacy: 107.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

Input Watts (W): 160.8
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

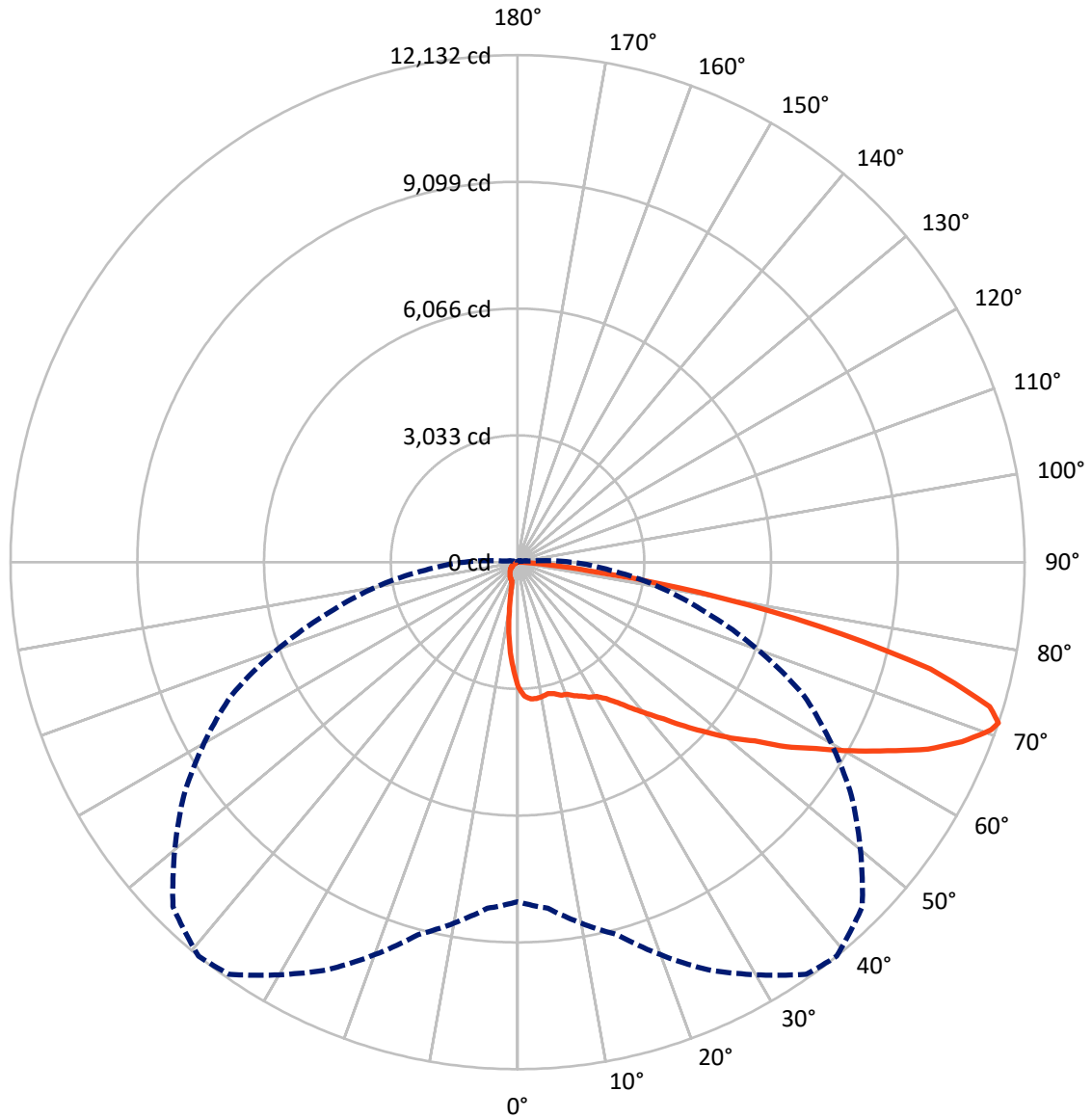
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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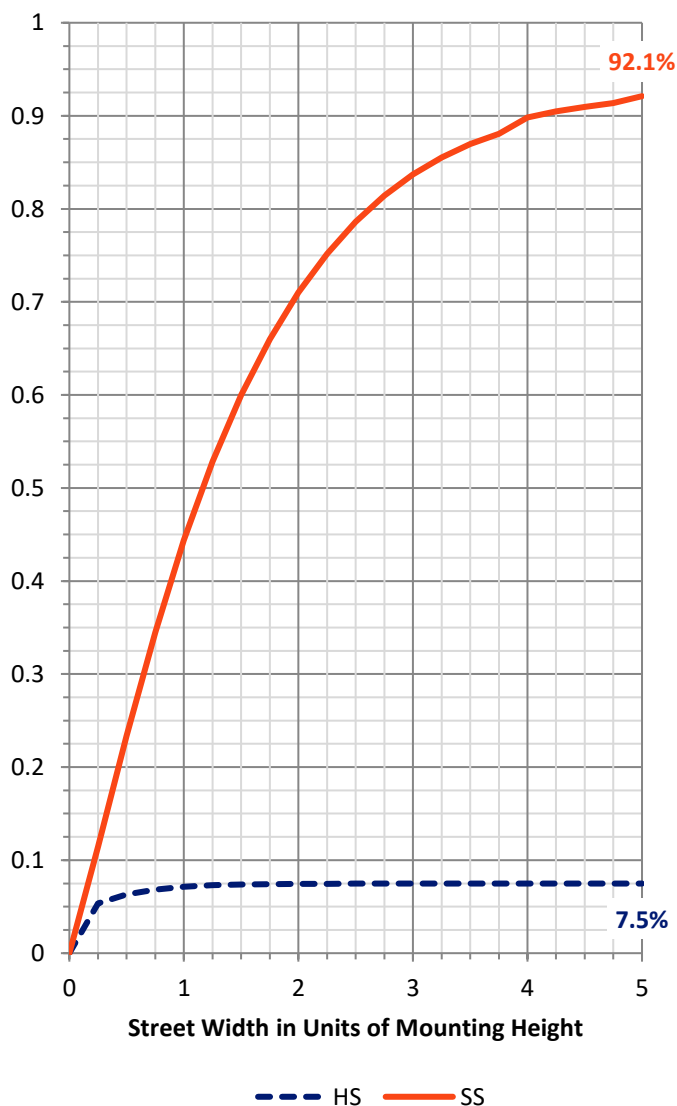
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1299.3	0.0	1299.3
	% Fixture	7.5	0.0	7.5
Street Side	Lumens	15959.7	0.0	15959.7
	% Fixture	92.5	0.0	92.5
Total	Lumens	17259.1	0.0	17259.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	251.2	1.5
10°-20°	618.2	3.6
20°-30°	992.4	5.8
30°-40°	1519.1	8.8
40°-50°	2438.5	14.1
50°-60°	3581.7	20.8
60°-70°	4511.0	26.1
70°-80°	3010.5	17.4
80°-90°	336.4	1.9
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°	17259.1	100.0
0°-180°	17259.1	100.0

Coefficient of Utilization



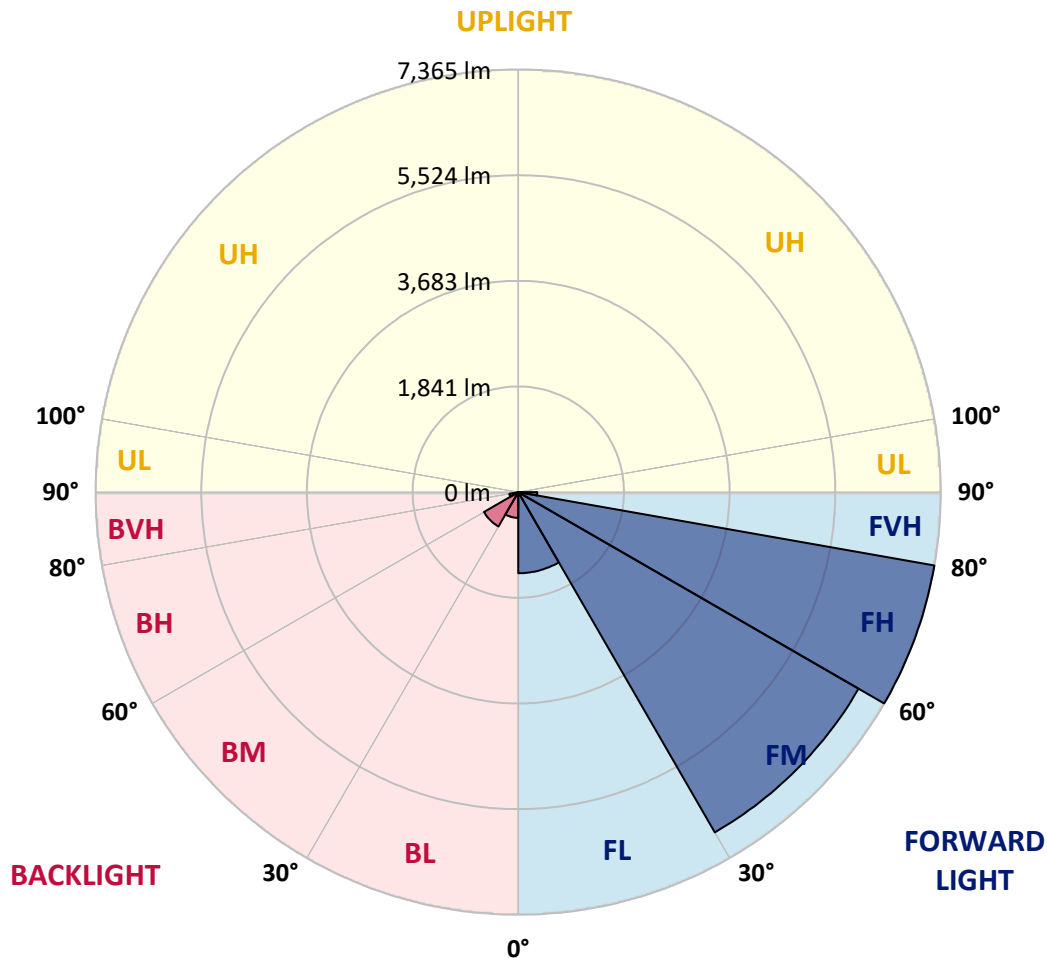
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1413.2	8.2			
FM (30°-60°)	6848.6	39.7			
FH (60°-80°)	7365.2	42.7			G3/7500
FVH (80°-90°)	332.7	1.9			G3/500
BL (0°-30°)	448.6	2.6	B1/500		
BM (30°-60°)	690.7	4.0	B1/1000		
BH (60°-80°)	156.4	0.9	B1/500		G1/500
BVH (80°-90°)	3.7	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	3004.1	3004.1	3004.1	3004.1	3004.1	3004.1	3004.1	3004.1	3004.1	3004.1	3004.1
2.5°	3237.2	3268.9	3237.2	3223.6	3210.1	3212.3	3176.1	3182.9	3139.9	3083.3	3038.0
5°	3339.1	3382.1	3348.1	3332.3	3330.0	3287.0	3268.9	3225.9	3173.8	3085.5	3031.2
7.5°	3330.0	3321.0	3336.8	3323.2	3293.8	3293.8	3273.4	3212.3	3160.3	3060.6	2967.8
10°	3262.1	3289.3	3275.7	3259.9	3266.7	3268.9	3230.4	3187.4	3171.6	3072.0	2920.3
12.5°	3255.3	3210.1	3259.9	3262.1	3232.7	3230.4	3225.9	3214.6	3164.8	3074.2	2931.6
15°	3232.7	3214.6	3264.4	3266.7	3273.4	3266.7	3273.4	3264.4	3214.6	3162.5	2981.4
17.5°	3250.8	3230.4	3300.6	3334.6	3318.7	3350.4	3339.1	3298.3	3255.3	3194.2	3029.0
20°	3255.3	3284.8	3361.7	3375.3	3425.1	3373.0	3370.8	3327.8	3300.6	3235.0	3058.4
22.5°	3339.1	3352.7	3447.8	3477.2	3479.4	3472.7	3416.1	3366.3	3354.9	3273.4	3065.2
25°	3465.9	3513.4	3556.4	3574.5	3581.3	3549.6	3490.8	3427.4	3400.2	3348.1	3135.4
27.5°	3690.0	3660.6	3699.0	3726.2	3649.2	3660.6	3585.8	3531.5	3493.0	3447.8	3216.8
30°	3889.2	3862.0	3864.3	3859.8	3794.1	3733.0	3712.6	3617.5	3570.0	3588.1	3343.6
32.5°	4068.0	4009.2	4059.0	4036.3	3914.1	3896.0	3880.1	3760.2	3769.2	3853.0	3533.8
35°	4233.3	4212.9	4253.7	4212.9	4131.4	4126.9	4111.0	4006.9	4056.7	4176.7	3859.8
37.5°	4385.0	4391.8	4441.6	4421.2	4428.0	4432.5	4423.4	4312.5	4455.1	4724.5	4240.1
40°	4525.3	4516.3	4638.5	4701.9	4715.5	4765.3	4765.3	4738.1	4957.7	5261.1	4767.5
42.5°	4674.7	4697.4	4855.8	4962.2	5091.3	5134.3	5193.1	5206.7	5546.3	5892.6	5306.3
45°	4919.2	4880.7	5082.2	5333.5	5446.7	5598.4	5688.9	5765.9	6175.6	6651.0	5845.1
47.5°	5229.4	5152.4	5329.0	5693.4	5956.0	6080.5	6243.5	6345.4	6746.1	7237.3	6354.5
50°	5573.5	5494.2	5580.2	6082.8	6388.4	6614.8	6823.1	6952.1	7436.6	7893.8	6725.7
52.5°	5962.8	5890.4	5904.0	6488.0	6938.5	7103.8	7377.7	7570.1	8052.3	8290.0	6857.0
55°	6377.1	6359.0	6316.0	6884.2	7420.7	7792.0	7957.2	8188.1	8683.9	8505.1	6999.6
57.5°	6793.6	6737.0	6798.2	7409.4	8194.9	8416.8	8645.4	8783.5	9034.8	8693.0	6945.3
60°	7185.3	7189.8	7275.8	7979.9	8853.7	9168.4	9374.4	9290.6	9394.7	8774.5	6820.8
62.5°	7515.8	7506.7	7724.1	8620.5	9725.2	9938.0	10092.0	9718.5	9562.3	8853.7	6603.5
65°	7812.3	7914.2	8256.0	9383.4	10544.7	10789.2	10696.4	10123.7	9725.2	8620.5	5992.3
67.5°	8036.5	8188.1	8781.2	10101.0	11296.3	11468.4	11339.3	10431.6	9532.8	7705.9	4880.7
70°	8167.8	8321.7	9157.0	10698.7	11896.2	12020.7	11717.4	10193.9	8410.0	5580.2	3044.8
71°	8127.0	8314.9	9229.5	10762.1	12038.8	12131.7	11660.8	9754.7	7563.3	4672.5	2220.8
72.5°	7758.0	7934.6	8928.4	10716.8	11866.8	11810.2	11219.3	8699.8	5953.8	2979.1	1147.7
75°	5700.2	5890.4	7662.9	9270.2	10592.3	10202.9	9080.1	6105.4	3105.9	912.3	335.0
77.5°	2838.8	2870.5	4756.2	6730.3	7769.3	7382.2	6085.1	3404.7	1161.3	269.4	167.5
80°	1308.5	1317.5	1783.9	3486.2	4697.4	4421.2	3409.3	1679.7	525.2	142.6	131.3
82.5°	891.9	905.5	1075.3	1444.3	2039.7	1720.5	1380.9	1075.3	301.1	86.0	129.0
85°	163.0	149.4	602.2	765.2	787.8	534.3	477.7	930.4	113.2	49.8	113.2
87.5°	0.0	2.3	83.8	312.4	280.7	124.5	163.0	226.4	11.3	15.8	20.4
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°	3004.1	3004.1	3004.1	3004.1	3004.1	3004.1	3004.1	3004.1	3004.1	3004.1	3004.1
2.5°	2999.5	2974.6	2890.9	2798.0	2714.3	2648.6	2564.9	2526.4	2465.3	2431.3	2429.0
5°	2956.5	2888.6	2743.7	2587.5	2413.2	2268.3	2107.6	2017.0	1912.9	1881.2	1874.4
7.5°	2884.1	2786.7	2573.9	2354.3	2087.2	1831.4	1634.5	1423.9	1294.9	1240.6	1220.2
10°	2838.8	2721.1	2431.3	2103.1	1729.5	1369.6	1093.4	869.3	751.6	695.0	681.4
12.5°	2838.8	2712.0	2315.9	1863.1	1367.3	937.2	676.9	547.8	509.4	495.8	495.8
15°	2832.0	2693.9	2204.9	1616.3	1011.9	629.3	504.8	477.7	473.1	470.9	468.6
17.5°	2866.0	2662.2	2091.7	1351.5	715.4	495.8	464.1	459.5	455.0	455.0	450.5
20°	2890.9	2644.1	1955.9	1070.8	534.3	459.5	446.0	439.2	436.9	434.6	439.2
22.5°	2870.5	2616.9	1788.4	801.4	466.3	436.9	427.9	421.1	416.5	416.5	418.8
25°	2909.0	2592.0	1620.9	604.4	436.9	416.5	407.5	403.0	400.7	398.4	393.9
27.5°	2961.0	2603.4	1421.7	486.7	412.0	396.2	387.1	382.6	380.3	375.8	380.3
30°	3024.4	2601.1	1202.1	425.6	389.4	373.5	364.5	362.2	357.7	355.4	357.7
32.5°	3133.1	2660.0	975.7	393.9	364.5	350.9	341.8	339.6	337.3	335.0	332.8
35°	3366.3	2732.4	762.9	369.0	341.8	326.0	319.2	314.7	312.4	310.1	307.9
37.5°	3653.8	2893.1	581.8	346.4	319.2	303.3	296.6	294.3	285.2	283.0	280.7
40°	4013.7	3065.2	448.2	321.5	298.8	283.0	276.2	269.4	258.1	253.5	249.0
42.5°	4461.9	3232.7	369.0	298.8	276.2	264.9	253.5	242.2	233.2	224.1	219.6
45°	4910.2	3427.4	323.7	278.4	258.1	244.5	235.4	219.6	203.7	190.2	187.9
47.5°	5283.7	3497.6	296.6	255.8	240.0	228.6	215.1	194.7	172.0	158.5	156.2
50°	5562.1	3456.8	269.4	233.2	219.6	208.3	190.2	165.3	142.6	129.0	124.5
52.5°	5616.5	3278.0	244.5	215.1	199.2	185.6	165.3	138.1	113.2	99.6	97.3
55°	5578.0	2981.4	224.1	199.2	181.1	160.7	138.1	110.9	88.3	74.7	72.4
57.5°	5498.7	2630.5	201.5	178.8	158.5	138.1	113.2	90.6	65.6	52.1	52.1
60°	5229.4	2152.9	178.8	156.2	135.8	117.7	92.8	65.6	45.3	34.0	31.7
62.5°	4853.6	1654.8	156.2	133.6	117.7	97.3	72.4	47.5	27.2	18.1	18.1
65°	4167.6	1159.1	131.3	110.9	97.3	79.2	54.3	29.4	15.8	6.8	6.8
67.5°	3167.0	717.6	108.7	92.8	83.8	63.4	38.5	18.1	6.8	2.3	0.0
70°	1817.8	373.5	86.0	74.7	65.6	47.5	27.2	9.1	4.5	0.0	0.0
71°	1270.0	276.2	77.0	65.6	58.9	43.0	22.6	6.8	2.3	0.0	0.0
72.5°	636.1	183.4	65.6	54.3	47.5	34.0	18.1	6.8	2.3	0.0	0.0
75°	226.4	117.7	45.3	36.2	34.0	24.9	11.3	4.5	2.3	0.0	0.0
77.5°	156.2	95.1	31.7	22.6	22.6	15.8	6.8	2.3	2.3	0.0	0.0
80°	142.6	52.1	20.4	13.6	11.3	9.1	4.5	2.3	0.0	0.0	0.0
82.5°	142.6	38.5	11.3	9.1	6.8	4.5	2.3	0.0	0.0	0.0	0.0
85°	99.6	20.4	6.8	6.8	4.5	2.3	0.0	0.0	0.0	0.0	0.0
87.5°	15.8	6.8	4.5	2.3	2.3	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)