

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: P484828

Luminaire Tested: **IFLD-S-SA3D-750-U-SL4-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P484828
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3D-750-U-SL4-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens with House Side Shield
Light Source: (48) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

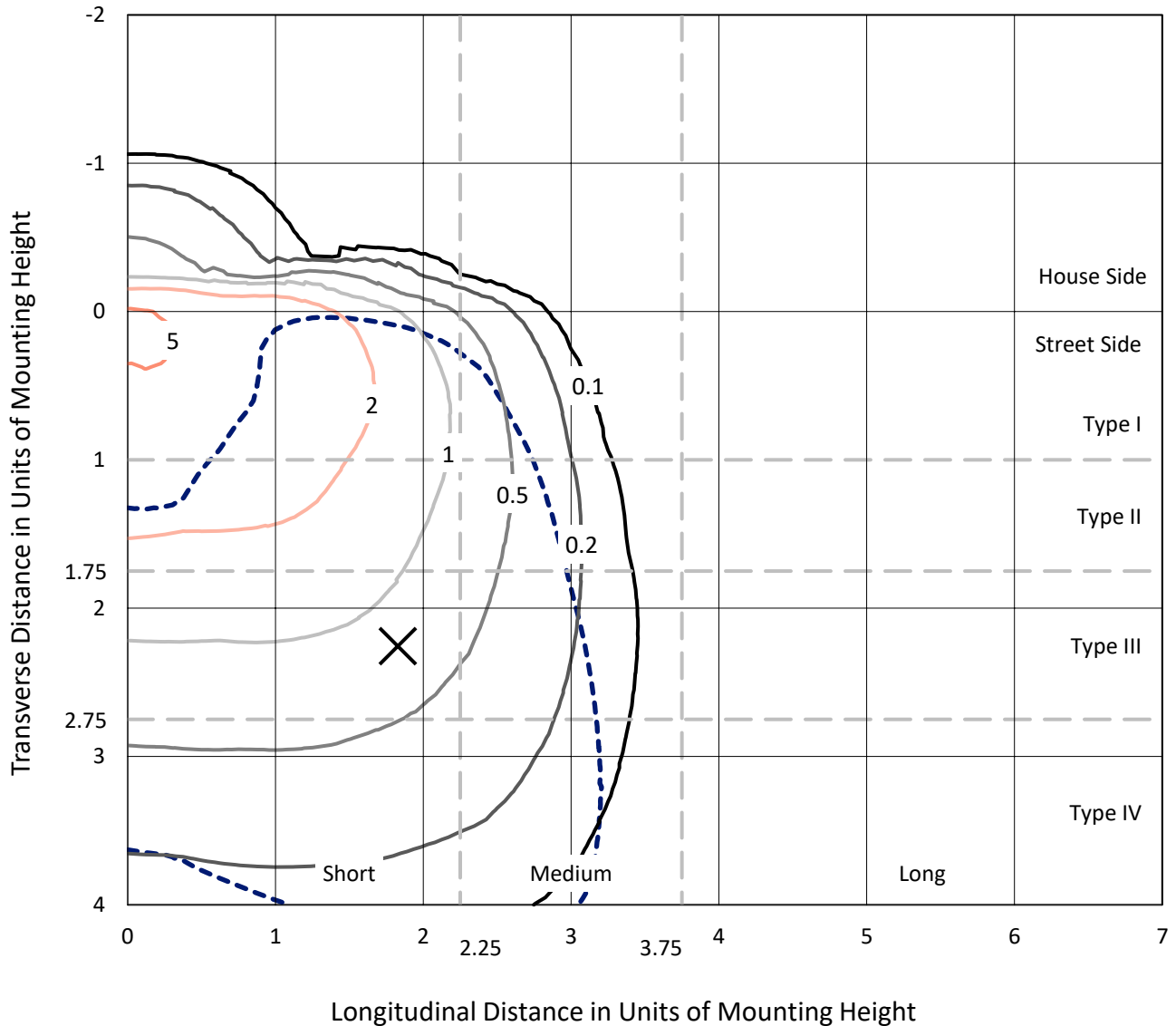
Lumens per Lamp: N/A
Luminaire Lumens: 19695.3 lumens
Efficiency: N/A
Efficacy: 107.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 184.1
Input Voltage (V): 120
Input Current (A_{in}): 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

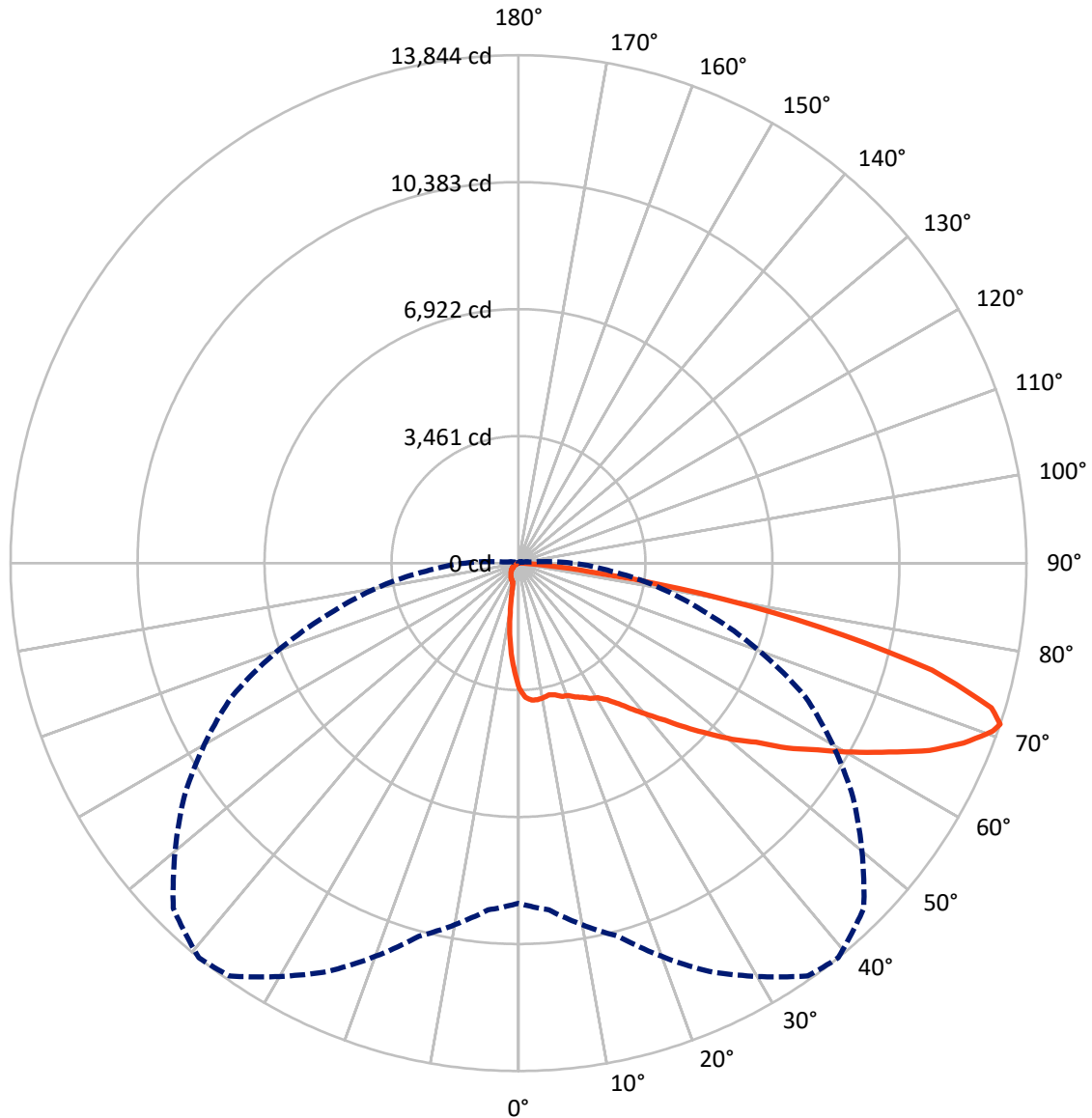
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.9 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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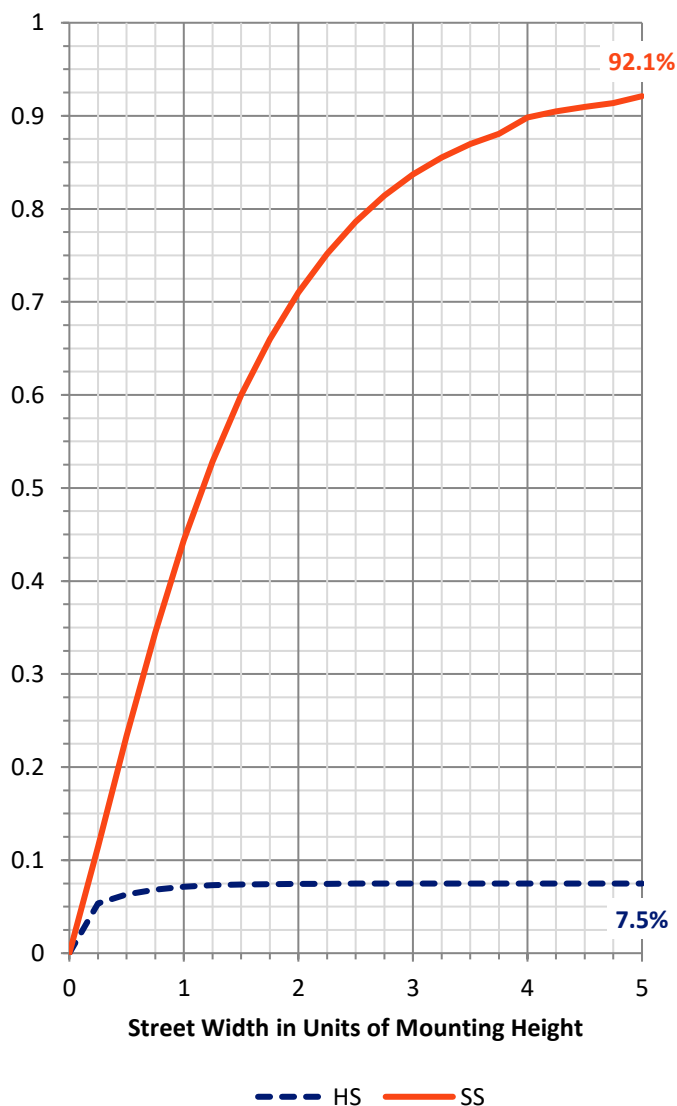
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1482.8	0.0	1482.8
	% Fixture	7.5	0.0	7.5
Street Side	Lumens	18212.5	0.0	18212.5
	% Fixture	92.5	0.0	92.5
Total	Lumens	19695.3	0.0	19695.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	286.6	1.5
10°-20°	705.5	3.6
20°-30°	1132.5	5.8
30°-40°	1733.6	8.8
40°-50°	2782.7	14.1
50°-60°	4087.3	20.8
60°-70°	5147.8	26.1
70°-80°	3435.5	17.4
80°-90°	383.9	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°	19695.3	100.0
0°-180°	19695.3	100.0

Coefficient of Utilization



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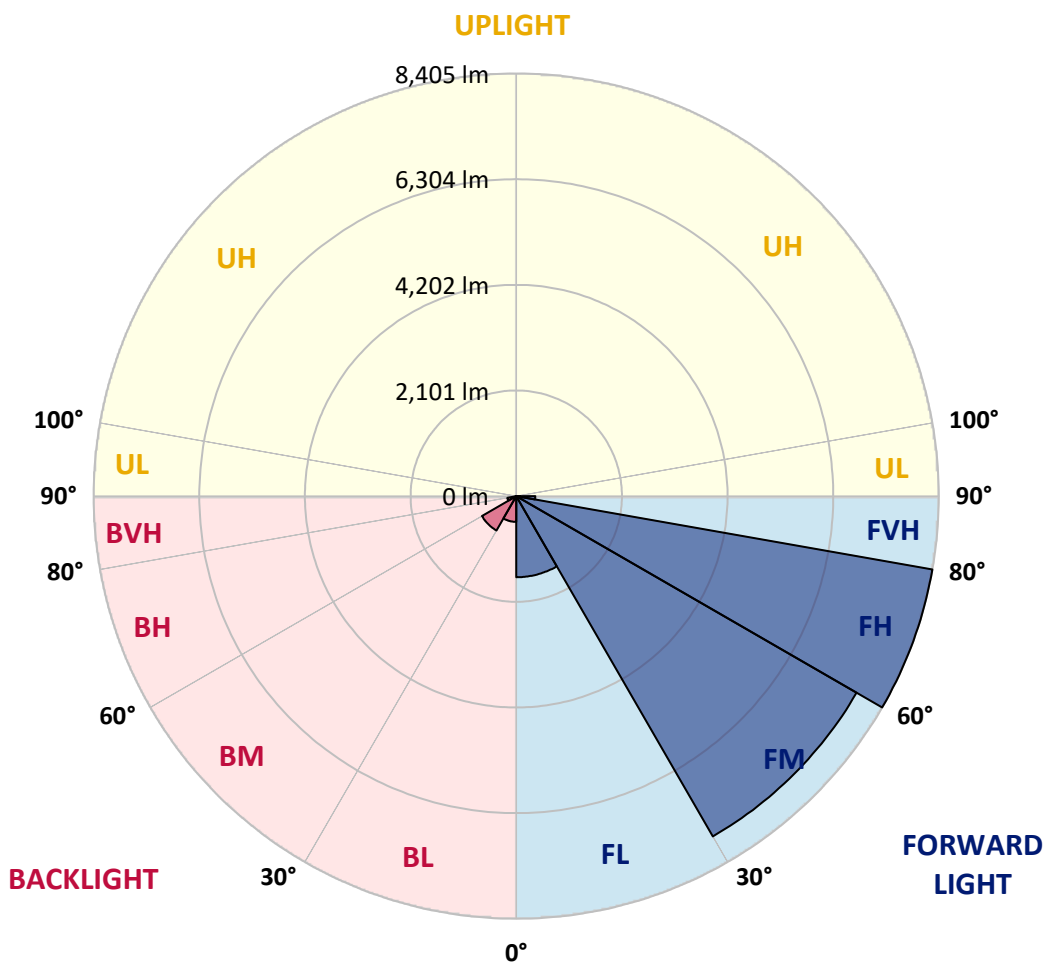
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1612.6	8.2			
FM (30°-60°)	7815.4	39.7			
FH (60°-80°)	8404.8	42.7			G4/12000
FVH (80°-90°)	379.7	1.9			G3/500
BL (0°-30°)	511.9	2.6	B2/1000		
BM (30°-60°)	788.1	4.0	B1/1000		
BH (60°-80°)	178.5	0.9	B1/500		G1/500
BVH (80°-90°)	4.2	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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	3428.1	3428.1	3428.1	3428.1	3428.1	3428.1	3428.1	3428.1	3428.1	3428.1	3428.1
2.5°	3694.2	3730.3	3694.2	3678.7	3663.2	3665.8	3624.4	3632.2	3583.1	3518.5	3466.8
5°	3810.4	3859.5	3820.8	3802.7	3800.1	3751.0	3730.3	3681.3	3621.8	3521.1	3459.1
7.5°	3800.1	3789.8	3807.8	3792.3	3758.8	3758.8	3735.5	3665.8	3606.3	3492.7	3386.8
10°	3722.6	3753.6	3738.1	3720.0	3727.8	3730.3	3686.4	3637.3	3619.3	3505.6	3332.5
12.5°	3714.8	3663.2	3720.0	3722.6	3689.0	3686.4	3681.3	3668.3	3611.5	3508.2	3345.4
15°	3689.0	3668.3	3725.2	3727.8	3735.5	3727.8	3735.5	3725.2	3668.3	3608.9	3402.3
17.5°	3709.7	3686.4	3766.5	3805.3	3787.2	3823.3	3810.4	3763.9	3714.8	3645.1	3456.5
20°	3714.8	3748.4	3836.3	3851.8	3908.6	3849.2	3846.6	3797.5	3766.5	3691.6	3490.1
22.5°	3810.4	3825.9	3934.4	3968.0	3970.6	3962.8	3898.3	3841.4	3828.5	3735.5	3497.8
25°	3955.1	4009.3	4058.4	4079.1	4086.8	4050.7	3983.5	3911.2	3880.2	3820.8	3577.9
27.5°	4210.8	4177.3	4221.2	4252.2	4164.3	4177.3	4092.0	4030.0	3986.1	3934.4	3670.9
30°	4438.2	4407.2	4409.8	4404.6	4329.7	4259.9	4236.7	4128.2	4073.9	4094.6	3815.6
32.5°	4642.3	4575.1	4631.9	4606.1	4466.6	4445.9	4427.8	4290.9	4301.3	4396.8	4032.6
35°	4830.8	4807.6	4854.1	4807.6	4714.6	4709.4	4691.3	4572.5	4629.3	4766.3	4404.6
37.5°	5003.9	5011.7	5068.5	5045.3	5053.0	5058.2	5047.8	4921.3	5084.0	5391.4	4838.6
40°	5164.1	5153.8	5293.3	5365.6	5381.1	5437.9	5437.9	5406.9	5657.5	6003.7	5440.5
42.5°	5334.6	5360.4	5541.3	5662.7	5809.9	5859.0	5926.2	5941.7	6329.2	6724.4	6055.3
45°	5613.6	5569.7	5799.6	6086.3	6215.5	6388.6	6491.9	6579.8	7047.3	7589.8	6670.2
47.5°	5967.5	5879.7	6081.2	6497.1	6796.8	6938.8	7124.8	7241.1	7698.3	8258.9	7251.4
50°	6360.2	6269.8	6367.9	6941.4	7290.2	7548.5	7786.2	7933.4	8486.3	9008.1	7675.1
52.5°	6804.5	6721.8	6737.3	7403.8	7917.9	8106.5	8419.1	8638.7	9188.9	9460.2	7824.9
55°	7277.3	7256.6	7207.5	7855.9	8468.2	8891.8	9080.4	9343.9	9909.7	9705.6	7987.7
57.5°	7752.6	7688.0	7757.8	8455.3	9351.7	9604.8	9865.8	10023.3	10310.1	9920.0	7925.7
60°	8199.5	8204.7	8302.8	9106.3	10103.4	10462.5	10697.6	10602.0	10720.8	10013.0	7783.6
62.5°	8576.7	8566.3	8814.3	9837.3	11098.0	11340.8	11516.5	11090.3	10912.0	10103.4	7535.6
65°	8915.1	9031.3	9421.4	10707.9	12033.2	12312.2	12206.3	11552.7	11098.0	9837.3	6838.1
67.5°	9170.8	9343.9	10020.8	11526.8	12890.8	13087.2	12939.9	11904.0	10878.4	8793.7	5569.7
70°	9320.7	9496.3	10449.6	12208.8	13575.4	13717.5	13371.3	11632.8	9597.1	6367.9	3474.6
71°	9274.2	9488.6	10532.3	12281.2	13738.2	13844.1	13306.8	11131.6	8630.9	5332.0	2534.3
72.5°	8853.1	9054.6	10188.7	12229.5	13541.8	13477.3	12803.0	9927.8	6794.2	3399.7	1309.8
75°	6504.8	6721.8	8744.6	10578.8	12087.4	11643.1	10361.8	6967.3	3544.3	1041.1	382.3
77.5°	3239.5	3275.7	5427.6	7680.3	8866.0	8424.3	6944.0	3885.3	1325.3	307.4	191.2
80°	1493.2	1503.5	2035.7	3978.3	5360.4	5045.3	3890.5	1916.8	599.3	162.8	149.8
82.5°	1017.8	1033.3	1227.1	1648.2	2327.6	1963.3	1575.8	1227.1	343.6	98.2	147.3
85°	186.0	170.5	687.2	873.2	899.0	609.7	545.1	1061.8	129.2	56.8	129.2
87.5°	0.0	2.6	95.6	356.5	320.3	142.1	186.0	258.3	12.9	18.1	23.3
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°	3428.1	3428.1	3428.1	3428.1	3428.1	3428.1	3428.1	3428.1	3428.1	3428.1	3428.1
2.5°	3422.9	3394.5	3298.9	3193.0	3097.4	3022.5	2926.9	2883.0	2813.3	2774.5	2771.9
5°	3373.8	3296.3	3131.0	2952.8	2753.8	2588.5	2405.1	2301.8	2182.9	2146.8	2139.0
7.5°	3291.2	3180.1	2937.3	2686.7	2381.8	2089.9	1865.2	1624.9	1477.7	1415.7	1392.4
10°	3239.5	3105.2	2774.5	2399.9	1973.7	1562.9	1247.8	992.0	857.7	793.1	777.6
12.5°	3239.5	3094.8	2642.8	2126.1	1560.3	1069.5	772.4	625.2	581.3	565.8	565.8
15°	3231.8	3074.2	2516.2	1844.5	1154.8	718.2	576.1	545.1	539.9	537.3	534.8
17.5°	3270.5	3038.0	2387.0	1542.3	816.3	565.8	529.6	524.4	519.3	519.3	514.1
20°	3298.9	3017.3	2232.0	1221.9	609.7	524.4	508.9	501.2	498.6	496.0	501.2
22.5°	3275.7	2986.3	2040.8	914.5	532.2	498.6	488.3	480.5	475.3	475.3	477.9
25°	3319.6	2957.9	1849.7	689.8	498.6	475.3	465.0	459.8	457.3	454.7	449.5
27.5°	3379.0	2970.8	1622.3	555.4	470.2	452.1	441.8	436.6	434.0	428.8	434.0
30°	3451.3	2968.3	1371.8	485.7	444.3	426.3	415.9	413.3	408.2	405.6	408.2
32.5°	3575.3	3035.4	1113.4	449.5	415.9	400.4	390.1	387.5	384.9	382.3	379.8
35°	3841.4	3118.1	870.6	421.1	390.1	372.0	364.3	359.1	356.5	353.9	351.3
37.5°	4169.5	3301.5	663.9	395.3	364.3	346.2	338.4	335.8	325.5	322.9	320.3
40°	4580.3	3497.8	511.5	366.8	341.0	322.9	315.2	307.4	294.5	289.3	284.2
42.5°	5091.8	3689.0	421.1	341.0	315.2	302.3	289.3	276.4	266.1	255.8	250.6
45°	5603.3	3911.2	369.4	317.8	294.5	279.0	268.7	250.6	232.5	217.0	214.4
47.5°	6029.5	3991.3	338.4	291.9	273.8	260.9	245.4	222.2	196.3	180.8	178.3
50°	6347.3	3944.8	307.4	266.1	250.6	237.7	217.0	188.6	162.8	147.3	142.1
52.5°	6409.3	3740.7	279.0	245.4	227.3	211.8	188.6	157.6	129.2	113.7	111.1
55°	6365.3	3402.3	255.8	227.3	206.7	183.4	157.6	126.6	100.8	85.3	82.7
57.5°	6274.9	3001.8	229.9	204.1	180.8	157.6	129.2	103.3	74.9	59.4	59.4
60°	5967.5	2456.8	204.1	178.3	155.0	134.3	105.9	74.9	51.7	38.8	36.2
62.5°	5538.7	1888.4	178.3	152.4	134.3	111.1	82.7	54.3	31.0	20.7	20.7
65°	4755.9	1322.7	149.8	126.6	111.1	90.4	62.0	33.6	18.1	7.8	7.8
67.5°	3614.1	818.9	124.0	105.9	95.6	72.3	43.9	20.7	7.8	2.6	0.0
70°	2074.4	426.3	98.2	85.3	74.9	54.3	31.0	10.3	5.2	0.0	0.0
71°	1449.3	315.2	87.8	74.9	67.2	49.1	25.8	7.8	2.6	0.0	0.0
72.5°	725.9	209.3	74.9	62.0	54.3	38.8	20.7	7.8	2.6	0.0	0.0
75°	258.3	134.3	51.7	41.3	38.8	28.4	12.9	5.2	2.6	0.0	0.0
77.5°	178.3	108.5	36.2	25.8	25.8	18.1	7.8	2.6	2.6	0.0	0.0
80°	162.8	59.4	23.3	15.5	12.9	10.3	5.2	2.6	0.0	0.0	0.0
82.5°	162.8	43.9	12.9	10.3	7.8	5.2	2.6	0.0	0.0	0.0	0.0
85°	113.7	23.3	7.8	7.8	5.2	2.6	0.0	0.0	0.0	0.0	0.0
87.5°	18.1	7.8	5.2	2.6	2.6	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)