

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: P484807

Luminaire Tested: **IFLD-M-SA4B-740-U-SL4-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P484807
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4B-740-U-SL4-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens with House Side Shield
Light Source: (64) 4000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

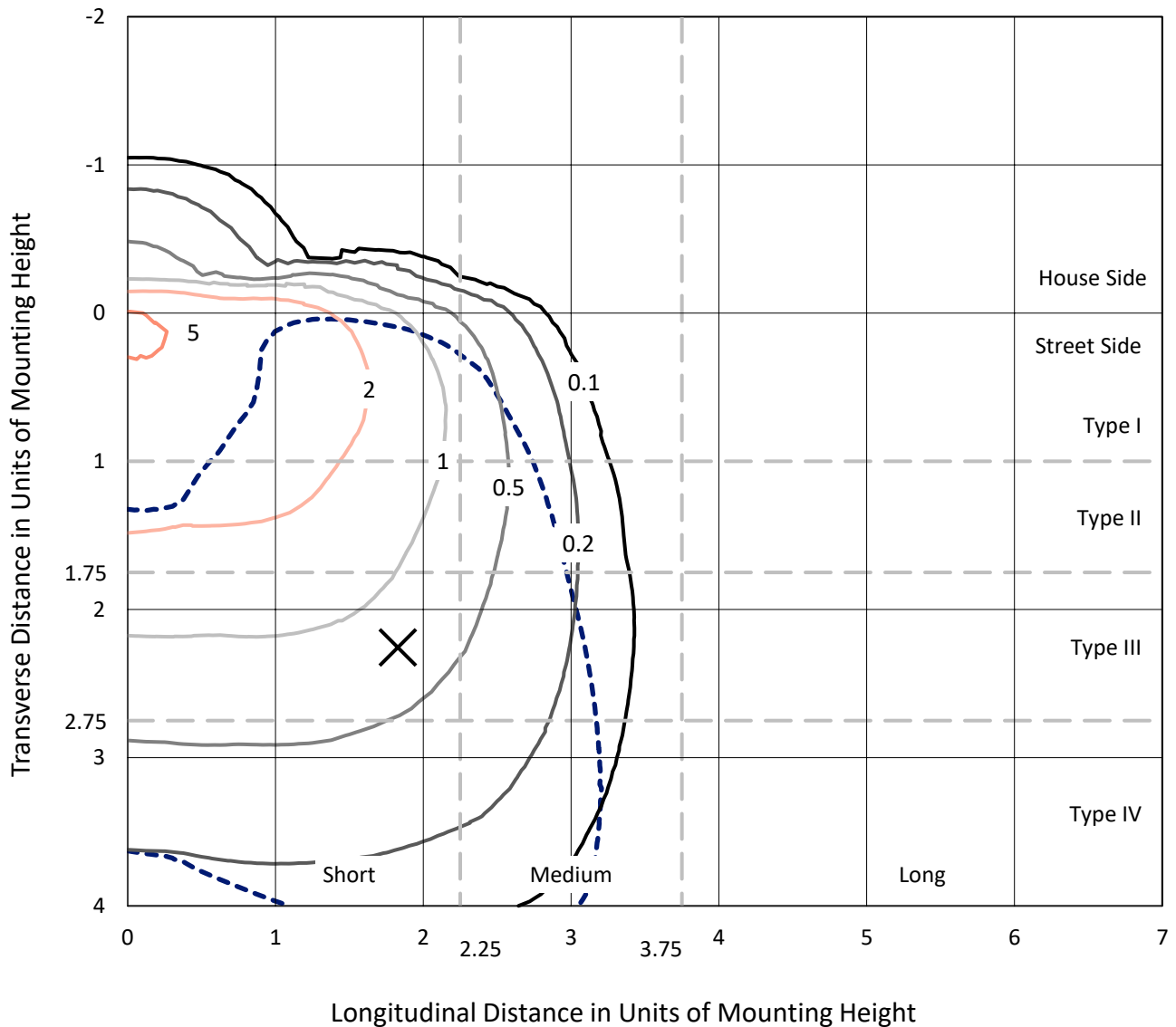
Lumens per Lamp: N/A
Luminaire Lumens: 18868.1 lumens
Efficiency: N/A
Efficacy: 113.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G4

Input Watts (W): 166.1
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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 CATALOG NUMBER: IFLD-M-SA4B-740-U-SL4-HSS

Iso-Footcandle Lines of Horizontal Illumination

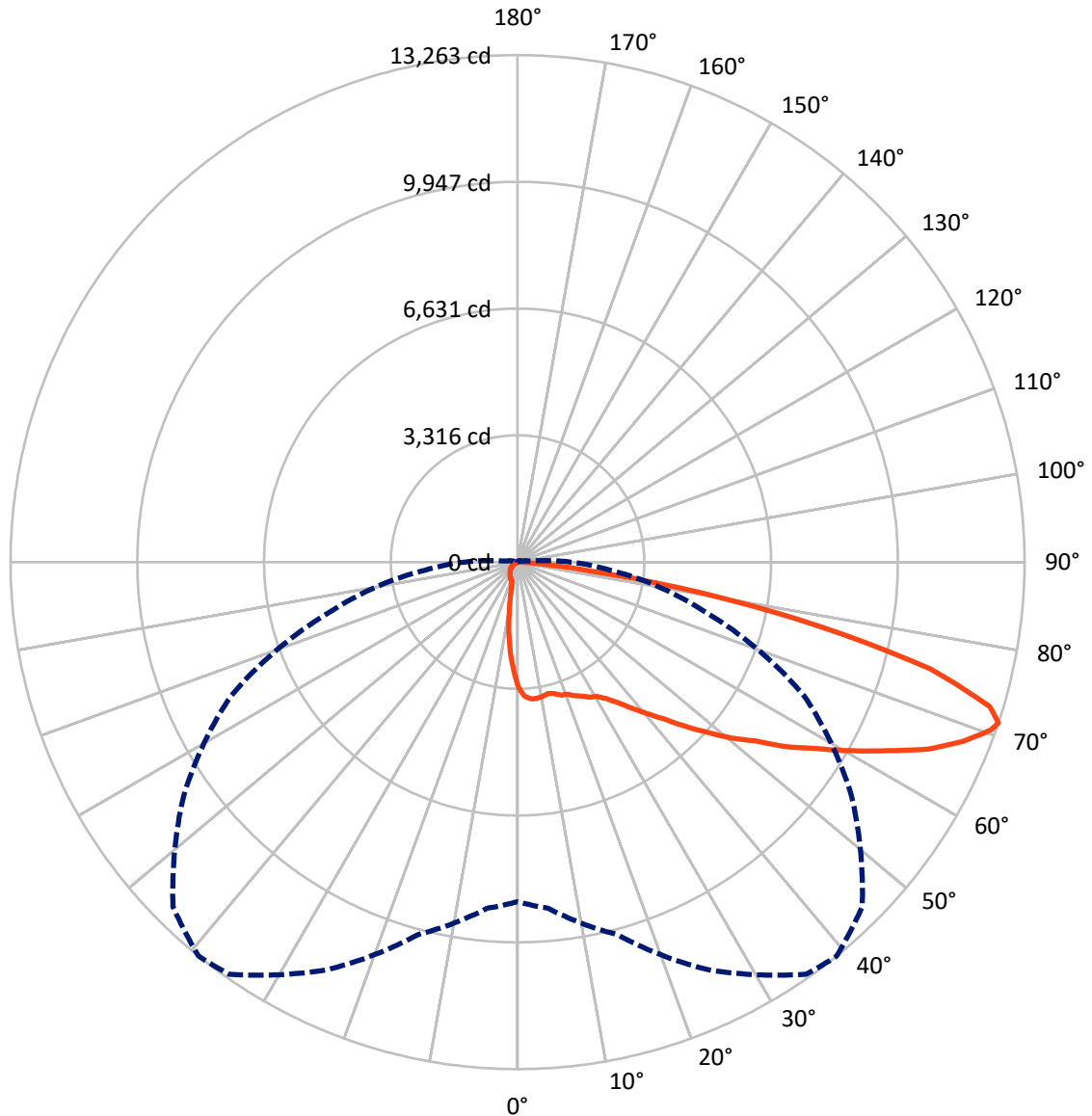
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.7 fc
 Type IV - Short - N/A

REPORT NUMBER: P484807
CATALOG NUMBER: IFLD-M-SA4B-740-U-SL4-HSS

Luminous Intensity Polar Plot



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



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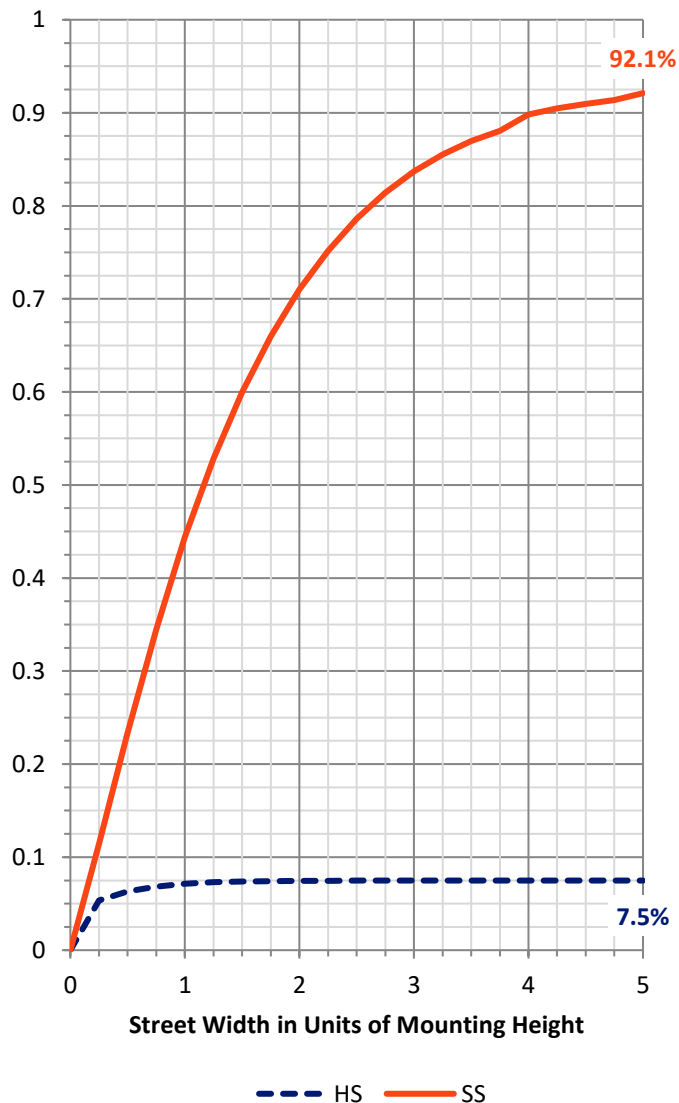
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1420.5	0.0	1420.5
	% Fixture	7.5	0.0	7.5
Street Side	Lumens	17447.6	0.0	17447.6
	% Fixture	92.5	0.0	92.5
Total	Lumens	18868.1	0.0	18868.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	274.6	1.5
10°-20°	675.8	3.6
20°-30°	1084.9	5.7
30°-40°	1660.8	8.8
40°-50°	2665.8	14.1
50°-60°	3915.6	20.8
60°-70°	4931.6	26.1
70°-80°	3291.2	17.4
80°-90°	367.8	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°	18868.1	100.0
0°-180°	18868.1	100.0

Coefficient of Utilization



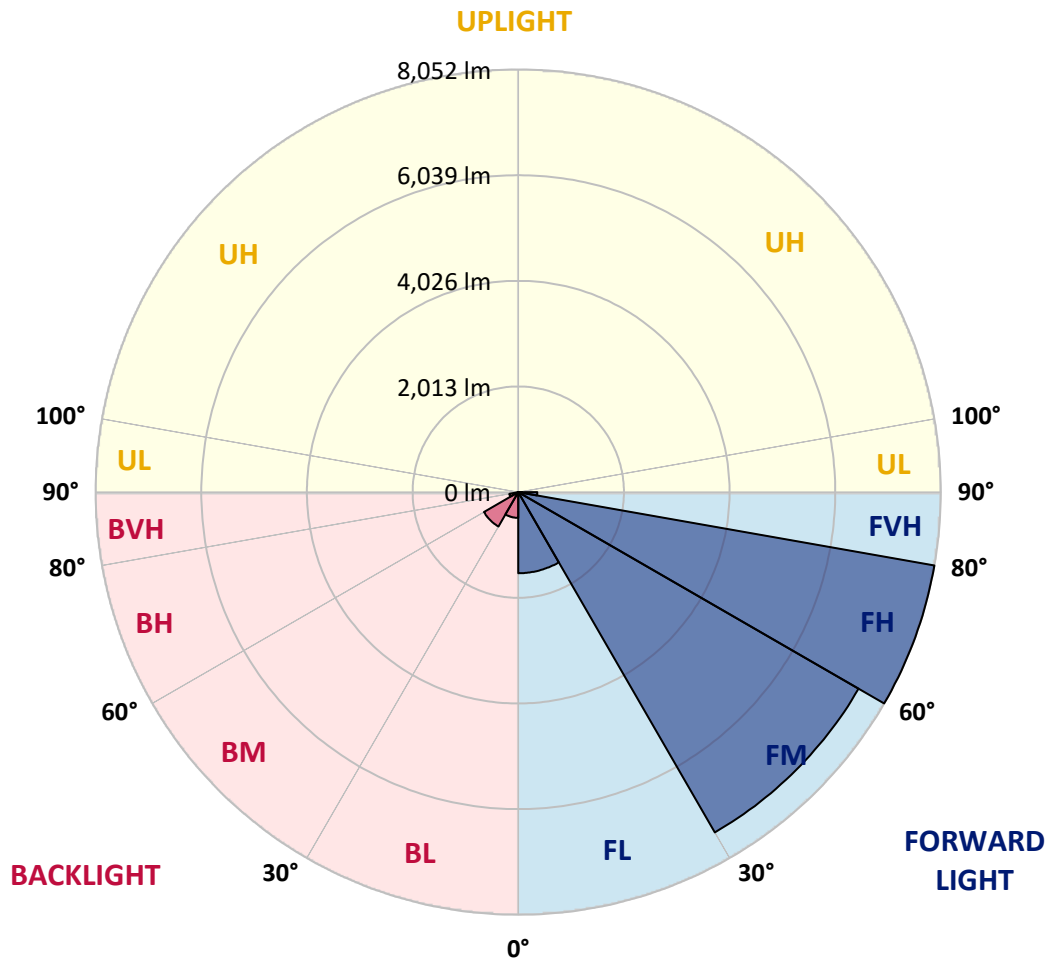
REPORT NUMBER: P484807
 CATALOG NUMBER: IFLD-M-SA4B-740-U-SL4-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1544.9	8.2			
FM (30°-60°)	7487.1	39.7			
FH (60°-80°)	8051.8	42.7			G4/12000
FVH (80°-90°)	363.8	1.9			G3/500
BL (0°-30°)	490.4	2.6	B1/500		
BM (30°-60°)	755.0	4.0	B1/1000		
BH (60°-80°)	171.0	0.9	B1/500		G1/500
BVH (80°-90°)	4.0	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G4

Type IV Short





REPORT NUMBER: P484807

CATALOG NUMBER: IFLD-M-SA4B-740-U-SL4-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	3284.1	3284.1	3284.1	3284.1	3284.1	3284.1	3284.1	3284.1	3284.1	3284.1	3284.1
2.5°	3539.0	3573.7	3539.0	3524.2	3509.3	3511.8	3472.2	3479.6	3432.6	3370.7	3321.2
5°	3650.4	3697.4	3660.3	3643.0	3640.5	3593.5	3573.7	3526.6	3469.7	3373.2	3313.8
7.5°	3640.5	3630.6	3647.9	3633.1	3600.9	3600.9	3578.6	3511.8	3454.9	3346.0	3244.5
10°	3566.2	3595.9	3581.1	3563.8	3571.2	3573.7	3531.6	3484.6	3467.2	3358.4	3192.5
12.5°	3558.8	3509.3	3563.8	3566.2	3534.1	3531.6	3526.6	3514.3	3459.8	3360.8	3204.9
15°	3534.1	3514.3	3568.7	3571.2	3578.6	3571.2	3578.6	3568.7	3514.3	3457.3	3259.4
17.5°	3553.9	3531.6	3608.3	3645.4	3628.1	3662.8	3650.4	3605.8	3558.8	3492.0	3311.3
20°	3558.8	3591.0	3675.1	3690.0	3744.4	3687.5	3685.0	3638.0	3608.3	3536.5	3343.5
22.5°	3650.4	3665.2	3769.2	3801.3	3803.8	3796.4	3734.5	3680.1	3667.7	3578.6	3350.9
25°	3789.0	3840.9	3888.0	3907.8	3915.2	3880.5	3816.2	3746.9	3717.2	3660.3	3427.6
27.5°	4034.0	4001.8	4043.9	4073.6	3989.4	4001.8	3920.1	3860.7	3818.7	3769.2	3516.7
30°	4251.8	4222.1	4224.5	4219.6	4147.8	4081.0	4058.7	3954.8	3902.8	3922.6	3655.3
32.5°	4447.3	4382.9	4437.4	4412.6	4279.0	4259.2	4241.9	4110.7	4120.6	4212.2	3863.2
35°	4627.9	4605.7	4650.2	4605.7	4516.6	4511.6	4494.3	4380.5	4434.9	4566.1	4219.6
37.5°	4793.8	4801.2	4855.6	4833.4	4840.8	4845.7	4835.8	4714.6	4870.5	5165.0	4635.4
40°	4947.2	4937.3	5070.9	5140.2	5155.1	5209.5	5209.5	5179.8	5419.9	5751.5	5212.0
42.5°	5110.5	5135.3	5308.5	5424.8	5565.9	5612.9	5677.3	5692.1	6063.3	6442.0	5801.0
45°	5377.8	5335.7	5556.0	5830.7	5954.5	6120.3	6219.3	6303.4	6751.4	7271.1	6390.0
47.5°	5716.9	5632.7	5825.8	6224.2	6511.3	6647.4	6825.6	6937.0	7375.0	7912.0	6946.9
50°	6093.0	6006.4	6100.5	6649.9	6984.0	7231.5	7459.2	7600.2	8129.8	8629.8	7352.7
52.5°	6518.7	6439.5	6454.4	7092.9	7585.4	7766.0	8065.5	8275.9	8803.0	9062.8	7496.3
55°	6971.6	6951.8	6904.8	7526.0	8112.5	8518.4	8699.0	8951.5	9493.5	9298.0	7652.2
57.5°	7427.0	7365.1	7431.9	8100.1	8958.9	9201.4	9451.4	9602.4	9877.1	9503.4	7592.8
60°	7855.1	7860.1	7954.1	8723.8	9679.1	10023.1	10248.3	10156.7	10270.6	9592.5	7456.7
62.5°	8216.5	8206.6	8444.1	9424.2	10631.9	10864.5	11032.8	10624.5	10453.7	9679.1	7219.1
65°	8540.7	8652.0	9025.7	10258.2	11527.8	11795.1	11693.6	11067.5	10631.9	9424.2	6550.9
67.5°	8785.7	8951.5	9599.9	11042.7	12349.4	12537.5	12396.5	11404.0	10421.5	8424.3	5335.7
70°	8929.2	9097.5	10010.7	11696.1	13005.3	13141.4	12809.7	11144.2	9194.0	6100.5	3328.7
71°	8884.7	9090.1	10089.9	11765.4	13161.2	13262.6	12747.9	10664.1	8268.4	5108.1	2427.8
72.5°	8481.3	8674.3	9760.8	11715.9	12973.1	12911.2	12265.3	9510.8	6508.8	3256.9	1254.7
75°	6231.6	6439.5	8377.3	10134.5	11579.8	11154.1	9926.6	6674.6	3395.5	997.4	366.3
77.5°	3103.4	3138.1	5199.6	7357.7	8493.6	8070.4	6652.4	3722.2	1269.6	294.5	183.1
80°	1430.5	1440.4	1950.2	3811.2	5135.3	4833.4	3727.1	1836.3	574.2	155.9	143.5
82.5°	975.1	989.9	1175.5	1578.9	2229.8	1880.9	1509.6	1175.5	329.2	94.0	141.1
85°	178.2	163.3	658.3	836.5	861.2	584.1	522.2	1017.2	123.7	54.4	123.7
87.5°	0.0	2.5	91.6	341.5	306.9	136.1	178.2	247.5	12.4	17.3	22.3
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°	3284.1	3284.1	3284.1	3284.1	3284.1	3284.1	3284.1	3284.1	3284.1	3284.1	3284.1
2.5°	3279.2	3251.9	3160.4	3058.9	2967.3	2895.6	2804.0	2761.9	2695.1	2658.0	2655.5
5°	3232.1	3157.9	2999.5	2828.7	2638.2	2479.8	2304.1	2205.1	2091.2	2056.6	2049.2
7.5°	3152.9	3046.5	2813.9	2573.8	2281.8	2002.1	1786.8	1556.7	1415.6	1356.2	1333.9
10°	3103.4	2974.8	2658.0	2299.1	1890.8	1497.3	1195.3	950.3	821.6	759.8	744.9
12.5°	3103.4	2964.9	2531.8	2036.8	1494.8	1024.6	740.0	598.9	556.8	542.0	542.0
15°	3096.0	2945.1	2410.5	1767.0	1106.3	688.0	551.9	522.2	517.2	514.8	512.3
17.5°	3133.1	2910.4	2286.7	1477.5	782.0	542.0	507.3	502.4	497.4	497.4	492.5
20°	3160.4	2890.6	2138.3	1170.6	584.1	502.4	487.5	480.1	477.6	475.2	480.1
22.5°	3138.1	2860.9	1955.1	876.1	509.8	477.6	467.7	460.3	455.4	455.4	457.8
25°	3180.2	2833.7	1772.0	660.8	477.6	455.4	445.5	440.5	438.0	435.6	430.6
27.5°	3237.1	2846.1	1554.2	532.1	450.4	433.1	423.2	418.2	415.8	410.8	415.8
30°	3306.4	2843.6	1314.1	465.3	425.7	408.3	398.4	396.0	391.0	388.5	391.0
32.5°	3425.2	2907.9	1066.7	430.6	398.4	383.6	373.7	371.2	368.8	366.3	363.8
35°	3680.1	2987.1	834.0	403.4	373.7	356.4	349.0	344.0	341.5	339.1	336.6
37.5°	3994.4	3162.8	636.0	378.6	349.0	331.6	324.2	321.7	311.8	309.4	306.9
40°	4387.9	3350.9	490.0	351.4	326.7	309.4	301.9	294.5	282.1	277.2	272.2
42.5°	4877.9	3534.1	403.4	326.7	301.9	289.6	277.2	264.8	254.9	245.0	240.1
45°	5367.9	3746.9	353.9	304.4	282.1	267.3	257.4	240.1	222.7	207.9	205.4
47.5°	5776.3	3823.6	324.2	279.7	262.3	250.0	235.1	212.8	188.1	173.2	170.8
50°	6080.7	3779.1	294.5	254.9	240.1	227.7	207.9	180.7	155.9	141.1	136.1
52.5°	6140.1	3583.6	267.3	235.1	217.8	202.9	180.7	151.0	123.7	108.9	106.4
55°	6098.0	3259.4	245.0	217.8	198.0	175.7	151.0	121.3	96.5	81.7	79.2
57.5°	6011.4	2875.8	220.3	195.5	173.2	151.0	123.7	99.0	71.8	56.9	56.9
60°	5716.9	2353.6	195.5	170.8	148.5	128.7	101.5	71.8	49.5	37.1	34.6
62.5°	5306.0	1809.1	170.8	146.0	128.7	106.4	79.2	52.0	29.7	19.8	19.8
65°	4556.2	1267.1	143.5	121.3	106.4	86.6	59.4	32.2	17.3	7.4	7.4
67.5°	3462.3	784.5	118.8	101.5	91.6	69.3	42.1	19.8	7.4	2.5	0.0
70°	1987.3	408.3	94.0	81.7	71.8	52.0	29.7	9.9	4.9	0.0	0.0
71°	1388.4	301.9	84.1	71.8	64.3	47.0	24.7	7.4	2.5	0.0	0.0
72.5°	695.4	200.5	71.8	59.4	52.0	37.1	19.8	7.4	2.5	0.0	0.0
75°	247.5	128.7	49.5	39.6	37.1	27.2	12.4	4.9	2.5	0.0	0.0
77.5°	170.8	103.9	34.6	24.7	24.7	17.3	7.4	2.5	2.5	0.0	0.0
80°	155.9	56.9	22.3	14.8	12.4	9.9	4.9	2.5	0.0	0.0	0.0
82.5°	155.9	42.1	12.4	9.9	7.4	4.9	2.5	0.0	0.0	0.0	0.0
85°	108.9	22.3	7.4	7.4	4.9	2.5	0.0	0.0	0.0	0.0	0.0
87.5°	17.3	7.4	4.9	2.5	2.5	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)