

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: P484957

Luminaire Tested: **IFLD-S-SA6A-830-U-SL4-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P484957
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6A-830-U-SL4-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens with House Side Shield
Light Source: (96) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

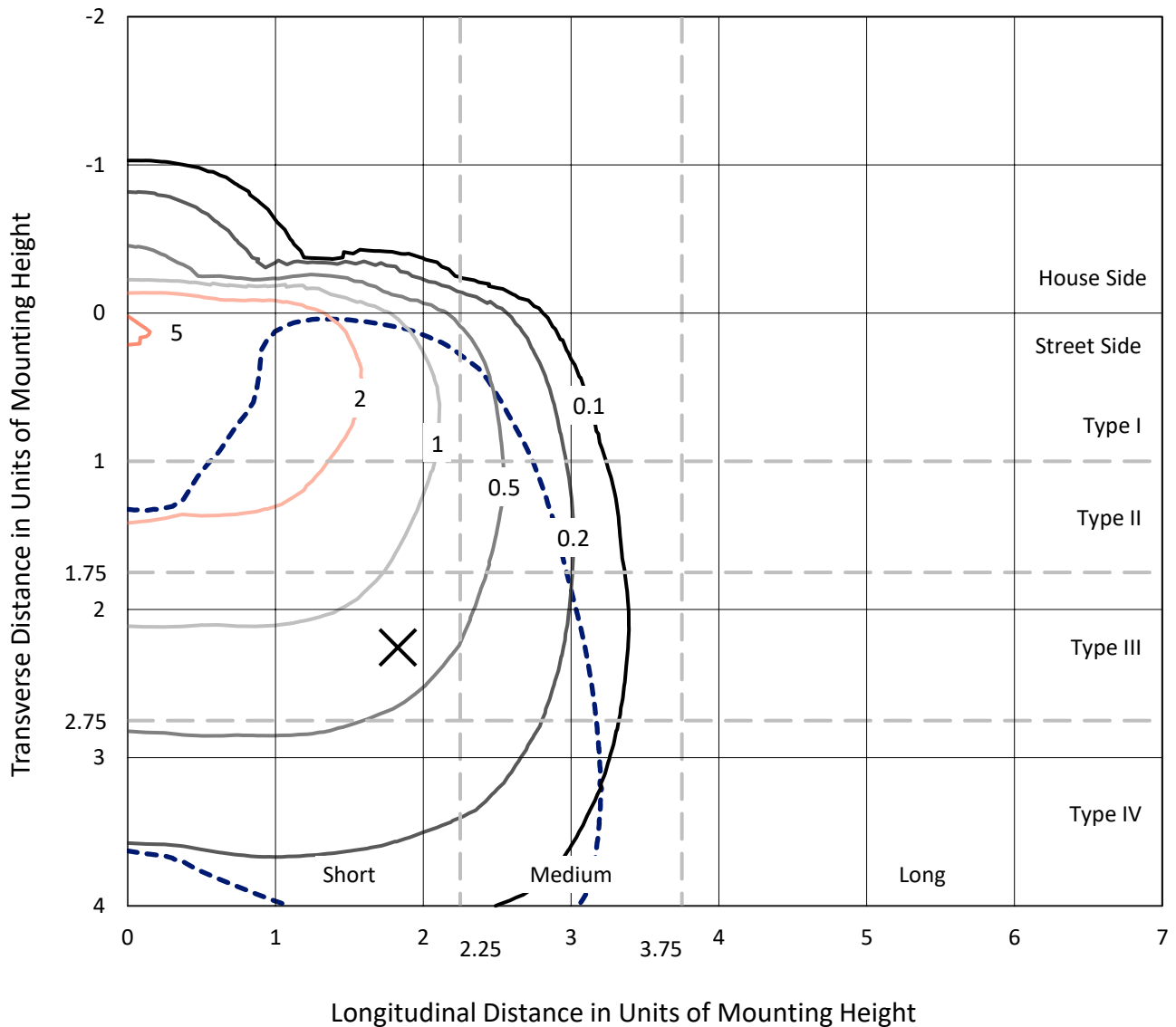
Lumens per Lamp: N/A
Luminaire Lumens: 17717.1 lumens
Efficiency: N/A
Efficacy: 93.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G4

Input Watts (W): 189.6
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

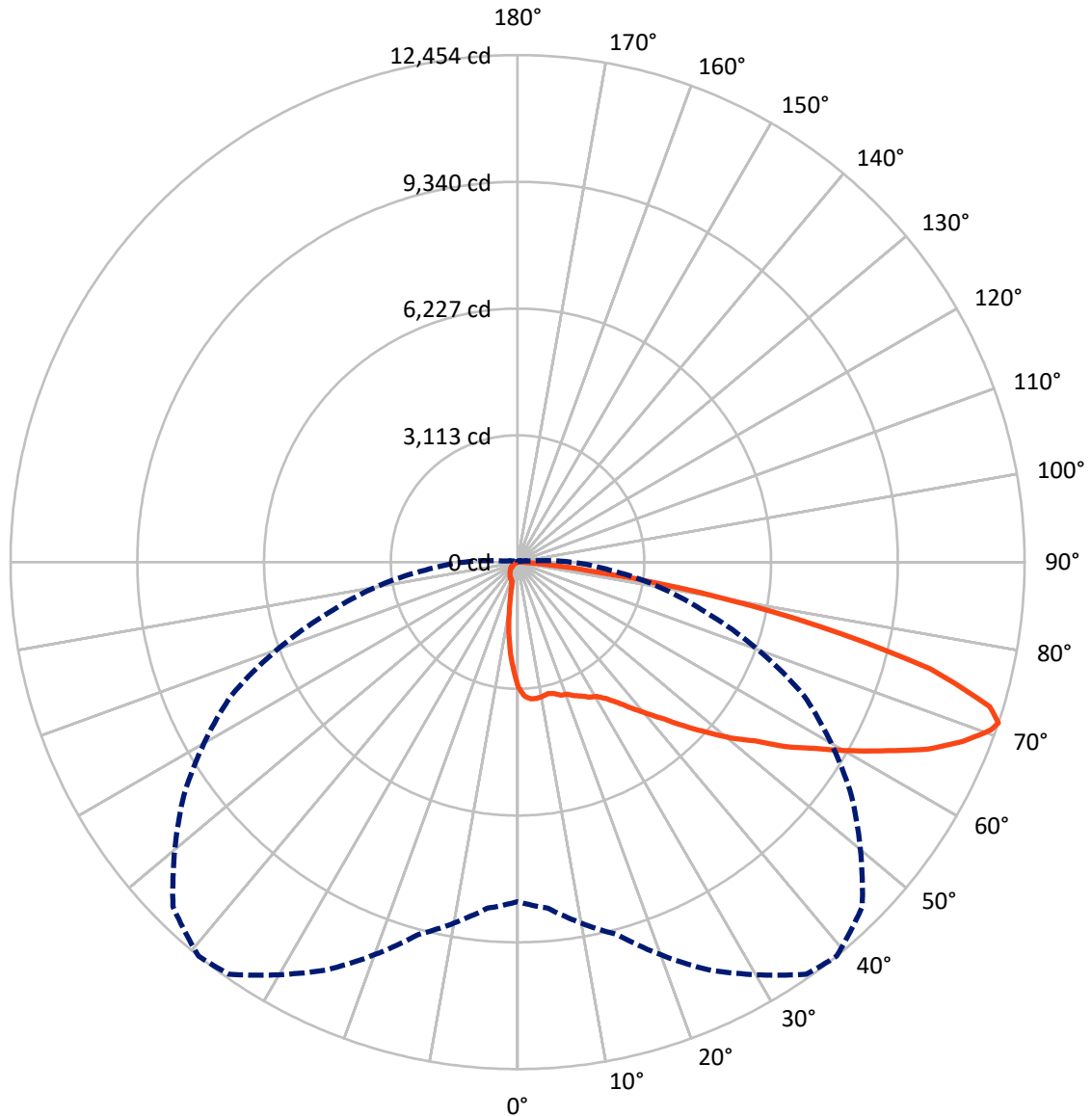
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.3 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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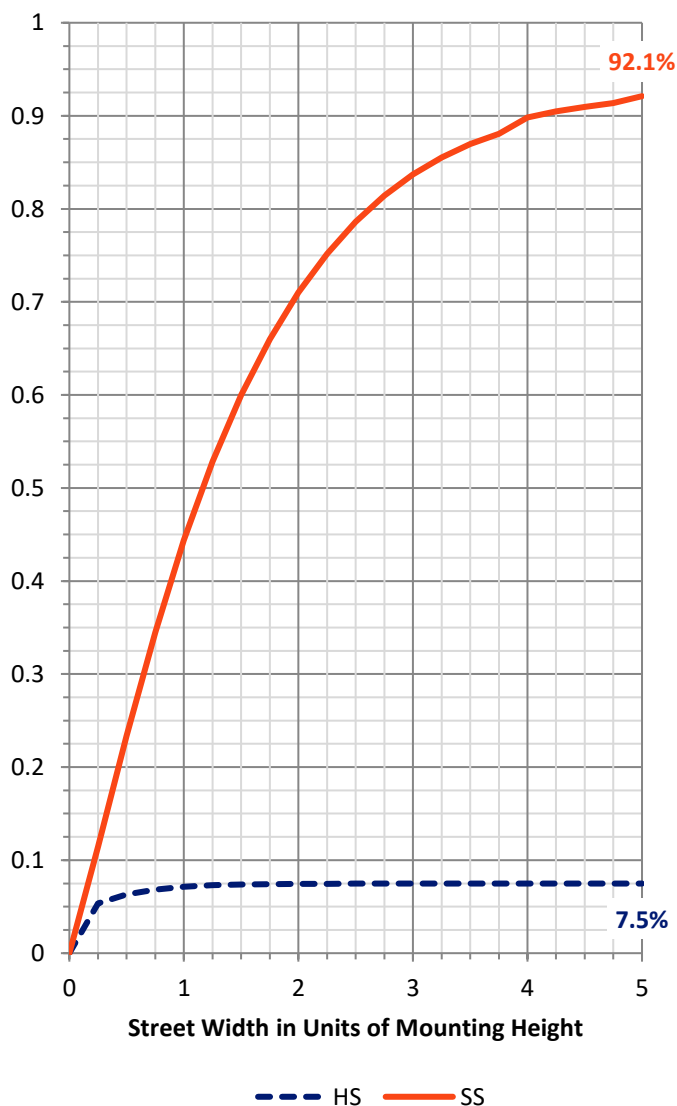
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1333.8	0.0	1333.8
	% Fixture	7.5	0.0	7.5
Street Side	Lumens	16383.3	0.0	16383.3
	% Fixture	92.5	0.0	92.5
Total	Lumens	17717.1	0.0	17717.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	257.8	1.5
10°-20°	634.6	3.6
20°-30°	1018.7	5.7
30°-40°	1559.4	8.8
40°-50°	2503.2	14.1
50°-60°	3676.8	20.8
60°-70°	4630.7	26.1
70°-80°	3090.4	17.4
80°-90°	345.4	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°	17717.1	100.0
0°-180°	17717.1	100.0

Coefficient of Utilization



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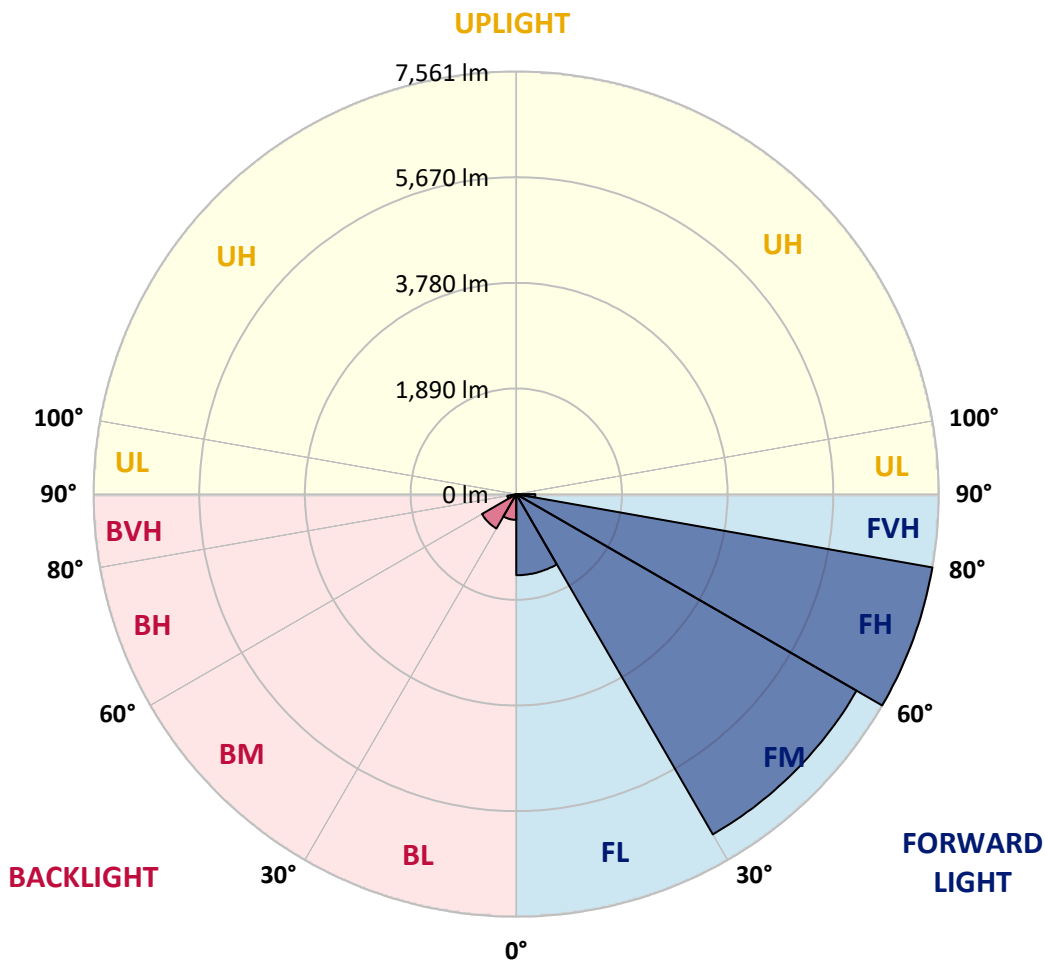
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1450.7	8.2			
FM (30°-60°)	7030.4	39.7			
FH (60°-80°)	7560.6	42.7			G4/12000
FVH (80°-90°)	341.6	1.9			G3/500
BL (0°-30°)	460.5	2.6	B1/500		
BM (30°-60°)	709.0	4.0	B1/1000		
BH (60°-80°)	160.5	0.9	B1/500		G1/500
BVH (80°-90°)	3.8	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	3083.8	3083.8	3083.8	3083.8	3083.8	3083.8	3083.8	3083.8	3083.8	3083.8	3083.8
2.5°	3323.1	3355.7	3323.1	3309.2	3295.2	3297.6	3260.4	3267.4	3223.2	3165.1	3118.6
5°	3427.7	3471.9	3437.0	3420.7	3418.4	3374.3	3355.7	3311.5	3258.1	3167.4	3111.7
7.5°	3418.4	3409.1	3425.4	3411.4	3381.2	3381.2	3360.3	3297.6	3244.1	3141.9	3046.6
10°	3348.7	3376.6	3362.6	3346.4	3353.3	3355.7	3316.2	3272.0	3255.7	3153.5	2997.8
12.5°	3341.7	3295.2	3346.4	3348.7	3318.5	3316.2	3311.5	3299.9	3248.8	3155.8	3009.4
15°	3318.5	3299.9	3351.0	3353.3	3360.3	3353.3	3360.3	3351.0	3299.9	3246.4	3060.5
17.5°	3337.1	3316.2	3388.2	3423.1	3406.8	3439.3	3427.7	3385.9	3341.7	3279.0	3109.3
20°	3341.7	3371.9	3450.9	3464.9	3516.0	3462.6	3460.2	3416.1	3388.2	3320.8	3139.5
22.5°	3427.7	3441.6	3539.2	3569.5	3571.8	3564.8	3506.7	3455.6	3444.0	3360.3	3146.5
25°	3557.8	3606.6	3650.8	3669.4	3676.4	3643.8	3583.4	3518.3	3490.4	3437.0	3218.6
27.5°	3787.9	3757.7	3797.2	3825.1	3746.1	3757.7	3681.0	3625.2	3585.7	3539.2	3302.2
30°	3992.4	3964.5	3966.8	3962.2	3894.8	3832.1	3811.1	3713.5	3664.7	3683.3	3432.4
32.5°	4176.0	4115.6	4166.7	4143.5	4018.0	3999.4	3983.1	3859.9	3869.2	3955.2	3627.6
35°	4345.6	4324.7	4366.5	4324.7	4241.1	4236.4	4220.1	4113.2	4164.4	4287.5	3962.2
37.5°	4501.3	4508.3	4559.4	4538.5	4545.5	4550.1	4540.8	4427.0	4573.4	4849.9	4352.6
40°	4645.4	4636.1	4761.6	4826.7	4840.6	4891.7	4891.7	4863.9	5089.3	5400.7	4894.1
42.5°	4798.8	4822.0	4984.7	5093.9	5226.4	5270.5	5331.0	5344.9	5693.5	6049.0	5447.1
45°	5049.8	5010.3	5217.1	5475.0	5591.2	5746.9	5839.9	5918.9	6339.5	6827.5	6000.2
47.5°	5368.1	5289.1	5470.4	5844.5	6114.1	6241.9	6409.2	6513.8	6925.1	7429.4	6523.1
50°	5721.4	5640.0	5728.3	6244.2	6558.0	6790.3	7004.1	7136.6	7633.9	8103.3	6904.2
52.5°	6121.1	6046.7	6060.6	6660.2	7122.7	7292.3	7573.5	7771.0	8266.0	8510.0	7039.0
55°	6546.3	6527.7	6483.6	7066.9	7617.6	7998.8	8168.4	8405.4	8914.4	8730.8	7185.4
57.5°	6973.9	6915.8	6978.6	7606.0	8412.4	8640.1	8874.8	9016.6	9274.6	8923.7	7129.6
60°	7376.0	7380.6	7468.9	8191.6	9088.6	9411.7	9623.1	9537.2	9644.0	9007.3	7001.8
62.5°	7715.2	7705.9	7929.0	8849.3	9983.3	10201.8	10359.8	9976.4	9816.0	9088.6	6778.7
65°	8019.7	8124.2	8475.1	9632.4	10824.6	11075.6	10980.3	10392.3	9983.3	8849.3	6151.3
67.5°	8249.7	8405.4	9014.3	10369.1	11596.1	11772.7	11640.3	10708.4	9785.8	7910.4	5010.3
70°	8384.5	8542.5	9400.0	10982.6	12211.9	12339.7	12028.3	10464.4	8633.2	5728.3	3125.6
71°	8342.7	8535.6	9474.4	11047.7	12358.3	12453.6	11970.2	10013.5	7764.0	4796.5	2279.7
72.5°	7963.9	8145.2	9165.3	11001.2	12181.7	12123.6	11517.1	8930.6	6111.8	3058.2	1178.2
75°	5851.5	6046.7	7866.3	9516.2	10873.4	10473.7	9321.0	6267.5	3188.3	936.5	343.9
77.5°	2914.1	2946.7	4882.4	6908.9	7975.5	7578.1	6246.6	3495.1	1192.1	276.5	172.0
80°	1343.2	1352.5	1831.2	3578.8	4822.0	4538.5	3499.7	1724.3	539.1	146.4	134.8
82.5°	915.6	929.5	1103.8	1482.6	2093.8	1766.1	1417.6	1103.8	309.1	88.3	132.5
85°	167.3	153.4	618.1	785.5	808.7	548.4	490.3	955.1	116.2	51.1	116.2
87.5°	0.0	2.3	86.0	320.7	288.2	127.8	167.3	232.4	11.6	16.3	20.9
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°	3083.8	3083.8	3083.8	3083.8	3083.8	3083.8	3083.8	3083.8	3083.8	3083.8	3083.8
2.5°	3079.1	3053.6	2967.6	2872.3	2786.3	2718.9	2632.9	2593.4	2530.7	2495.8	2493.5
5°	3035.0	2965.3	2816.5	2656.2	2477.2	2328.5	2163.5	2070.6	1963.7	1931.1	1924.2
7.5°	2960.6	2860.7	2642.2	2416.8	2142.6	1880.0	1677.8	1461.7	1329.3	1273.5	1252.6
10°	2914.1	2793.3	2495.8	2158.9	1775.4	1405.9	1122.4	892.4	771.5	713.4	699.5
12.5°	2914.1	2784.0	2377.3	1912.5	1403.6	962.1	694.8	562.4	522.9	508.9	508.9
15°	2907.2	2765.4	2263.4	1659.2	1038.8	646.0	518.2	490.3	485.7	483.4	481.0
17.5°	2942.0	2732.9	2147.3	1387.3	734.3	508.9	476.4	471.7	467.1	467.1	462.4
20°	2967.6	2714.3	2007.8	1099.2	548.4	471.7	457.8	450.8	448.5	446.2	450.8
22.5°	2946.7	2686.4	1835.9	822.6	478.7	448.5	439.2	432.2	427.6	427.6	429.9
25°	2986.2	2660.8	1663.9	620.5	448.5	427.6	418.3	413.6	411.3	409.0	404.4
27.5°	3039.6	2672.4	1459.4	499.6	422.9	406.7	397.4	392.7	390.4	385.8	390.4
30°	3104.7	2670.1	1234.0	436.9	399.7	383.4	374.1	371.8	367.2	364.8	367.2
32.5°	3216.2	2730.5	1001.6	404.4	374.1	360.2	350.9	348.6	346.3	343.9	341.6
35°	3455.6	2804.9	783.1	378.8	350.9	334.6	327.7	323.0	320.7	318.4	316.0
37.5°	3750.7	2969.9	597.2	355.6	327.7	311.4	304.4	302.1	292.8	290.5	288.2
40°	4120.2	3146.5	460.1	330.0	306.8	290.5	283.5	276.5	264.9	260.3	255.6
42.5°	4580.3	3318.5	378.8	306.8	283.5	271.9	260.3	248.7	239.4	230.1	225.4
45°	5040.5	3518.3	332.3	285.8	264.9	251.0	241.7	225.4	209.1	195.2	192.9
47.5°	5423.9	3590.4	304.4	262.6	246.3	234.7	220.8	199.9	176.6	162.7	160.3
50°	5709.7	3548.5	276.5	239.4	225.4	213.8	195.2	169.6	146.4	132.5	127.8
52.5°	5765.5	3365.0	251.0	220.8	204.5	190.6	169.6	141.8	116.2	102.3	99.9
55°	5726.0	3060.5	230.1	204.5	185.9	165.0	141.8	113.9	90.6	76.7	74.4
57.5°	5644.7	2700.3	206.8	183.6	162.7	141.8	116.2	93.0	67.4	53.4	53.4
60°	5368.1	2210.0	183.6	160.3	139.4	120.8	95.3	67.4	46.5	34.9	32.5
62.5°	4982.4	1698.7	160.3	137.1	120.8	99.9	74.4	48.8	27.9	18.6	18.6
65°	4278.2	1189.8	134.8	113.9	99.9	81.3	55.8	30.2	16.3	7.0	7.0
67.5°	3251.1	736.7	111.5	95.3	86.0	65.1	39.5	18.6	7.0	2.3	0.0
70°	1866.1	383.4	88.3	76.7	67.4	48.8	27.9	9.3	4.6	0.0	0.0
71°	1303.7	283.5	79.0	67.4	60.4	44.2	23.2	7.0	2.3	0.0	0.0
72.5°	653.0	188.2	67.4	55.8	48.8	34.9	18.6	7.0	2.3	0.0	0.0
75°	232.4	120.8	46.5	37.2	34.9	25.6	11.6	4.6	2.3	0.0	0.0
77.5°	160.3	97.6	32.5	23.2	23.2	16.3	7.0	2.3	2.3	0.0	0.0
80°	146.4	53.4	20.9	13.9	11.6	9.3	4.6	2.3	0.0	0.0	0.0
82.5°	146.4	39.5	11.6	9.3	7.0	4.6	2.3	0.0	0.0	0.0	0.0
85°	102.3	20.9	7.0	7.0	4.6	2.3	0.0	0.0	0.0	0.0	0.0
87.5°	16.3	7.0	4.6	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)