

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: P484555

Luminaire Tested: **IFLD-S-SA3D-830-U-SL3-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P484555
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3D-830-U-SL3-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens with House Side Shield
Light Source: (48) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

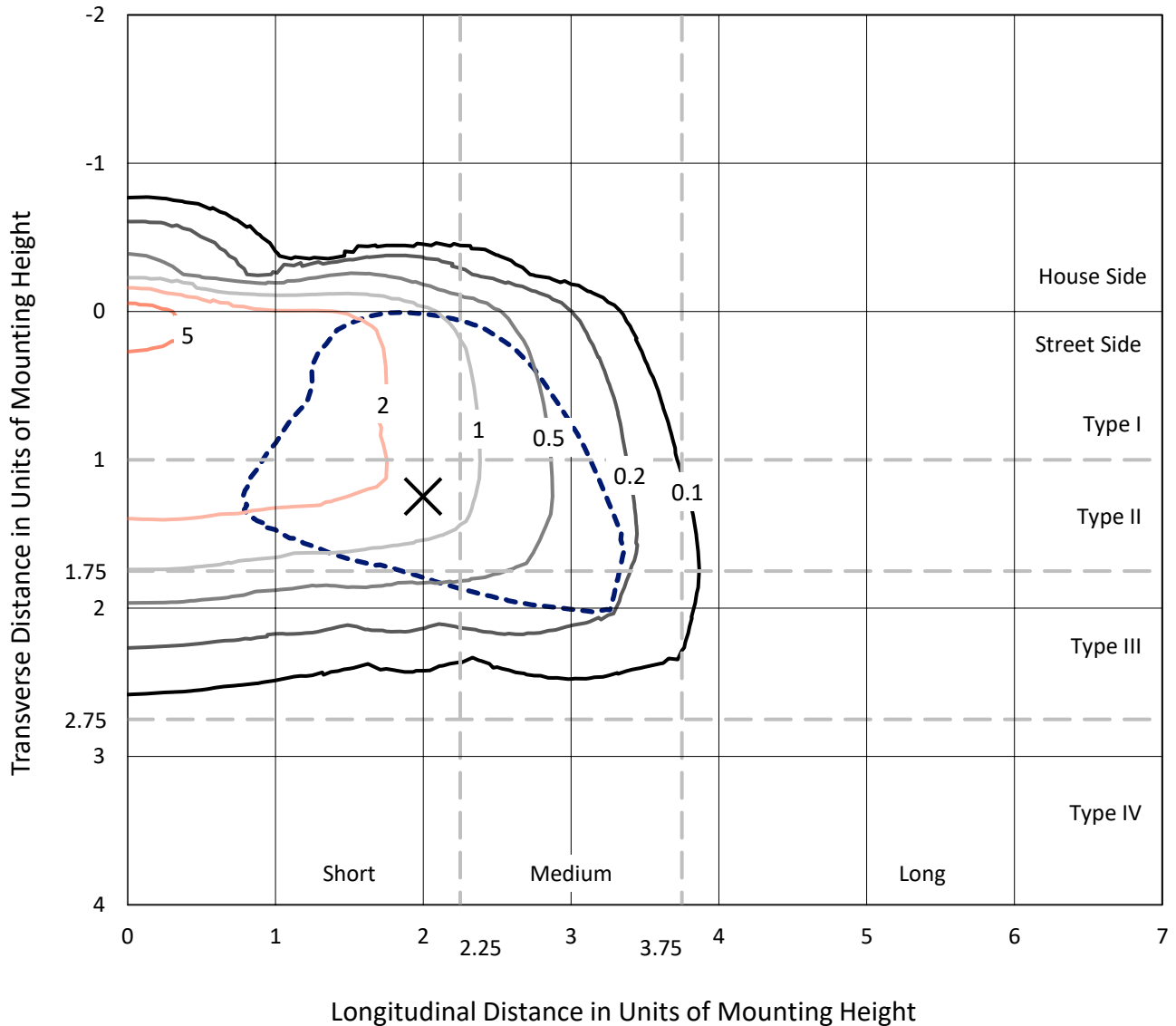
Lumens per Lamp: N/A
Luminaire Lumens: 15488 lumens
Efficiency: N/A
Efficacy: 84.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G3

Input Watts (W): 184.1
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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Iso-Footcandle Lines of Horizontal Illumination

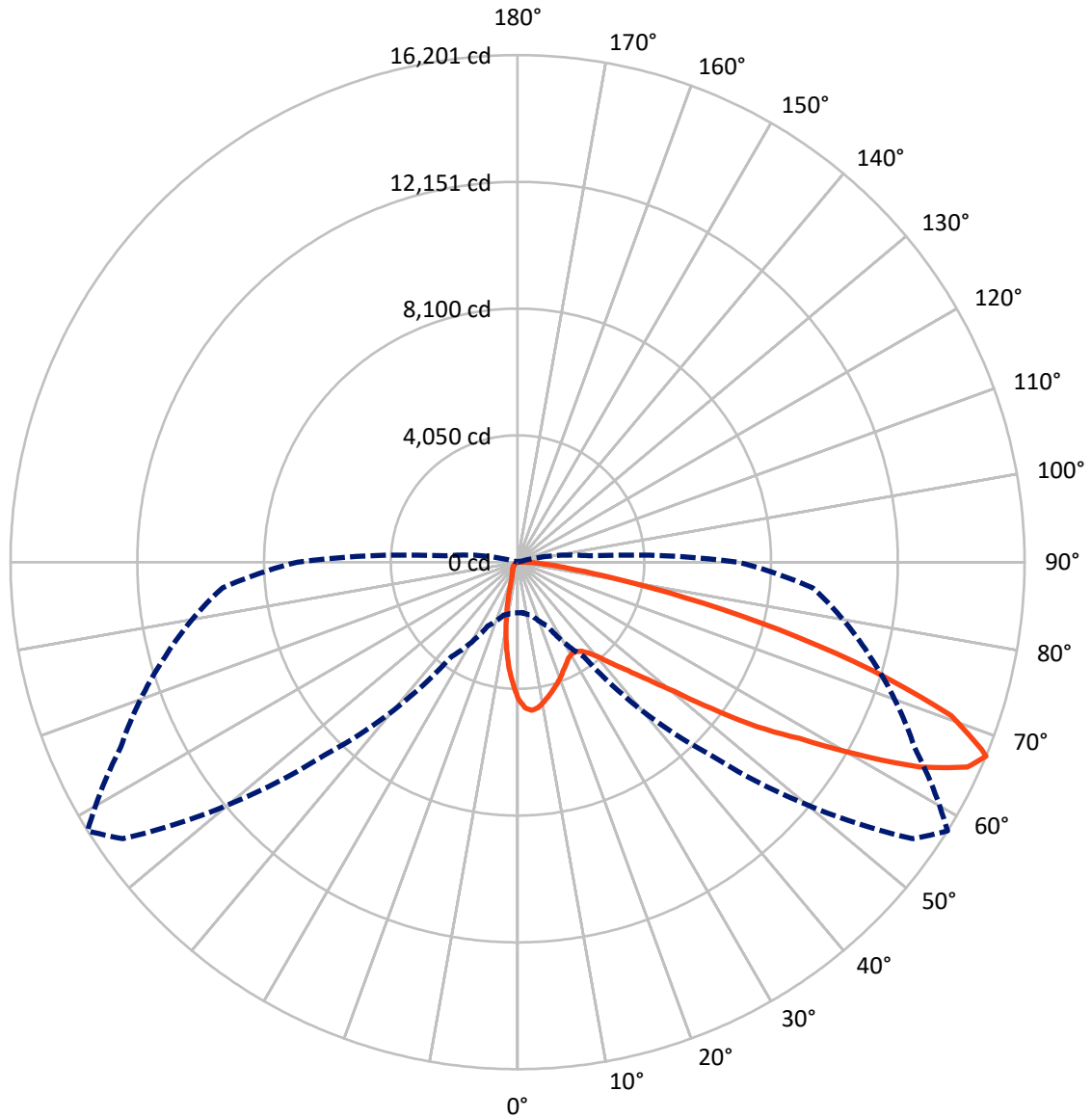
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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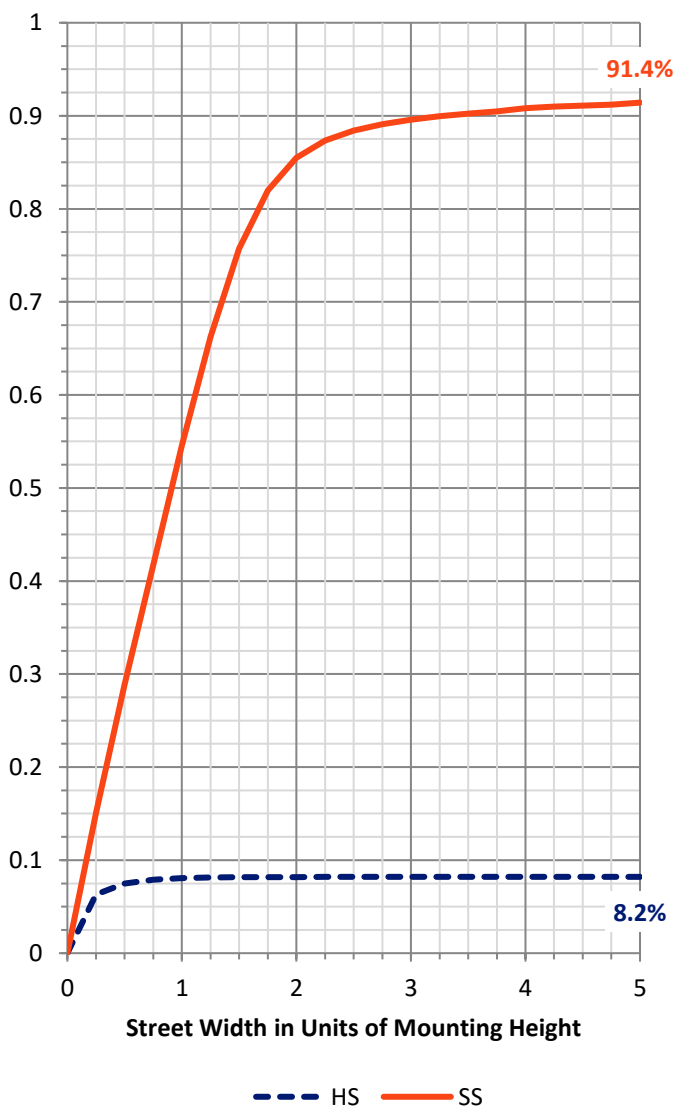
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1280.2	0.0	1280.2
	% Fixture	8.3	0.0	8.3
Street Side	Lumens	14207.8	0.0	14207.8
	% Fixture	91.7	0.0	91.7
Total	Lumens	15488.0	0.0	15488.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	348.2	2.2
10°-20°	722.2	4.7
20°-30°	958.1	6.2
30°-40°	1327.7	8.6
40°-50°	2166.4	14.0
50°-60°	3807.8	24.6
60°-70°	4217.5	27.2
70°-80°	1747.7	11.3
80°-90°	192.4	1.2
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°	15488.0	100.0
0°-180°	15488.0	100.0

Coefficient of Utilization



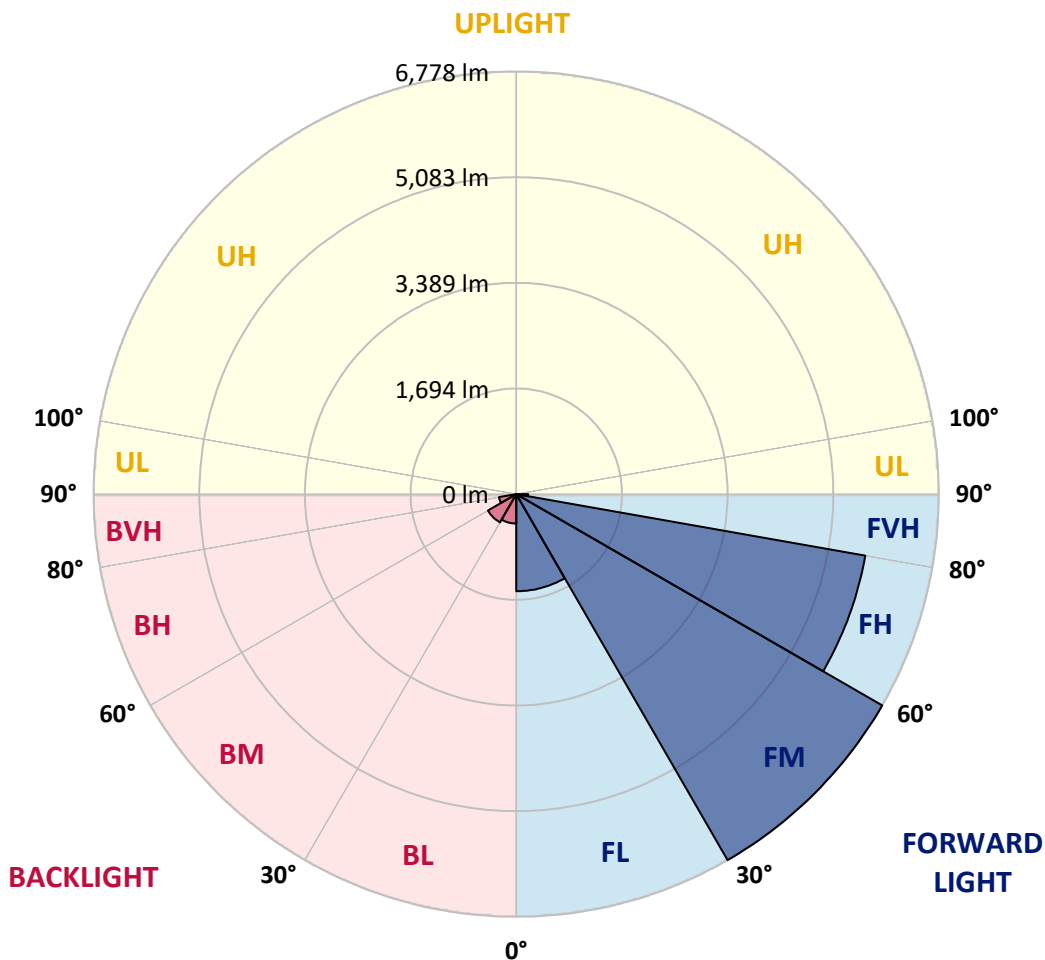
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1557.0	10.1			
FM (30°-60°)	6777.9	43.8			
FH (60°-80°)	5683.7	36.7			G3/7500
FVH (80°-90°)	189.2	1.2			G2/225
BL (0°-30°)	471.5	3.0	B1/500		
BM (30°-60°)	524.1	3.4	B1/1000		
BH (60°-80°)	281.5	1.8	B1/500		G1/500
BVH (80°-90°)	3.2	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	4388.0	4388.0	4388.0	4388.0	4388.0	4388.0	4388.0	4388.0	4388.0	4388.0	4388.0
2.5°	4774.5	4791.0	4805.4	4778.6	4801.3	4768.4	4684.1	4665.5	4651.2	4525.7	4453.8
5°	4772.5	4754.0	4768.4	4780.7	4749.8	4774.5	4754.0	4756.0	4700.5	4587.4	4385.9
7.5°	4453.8	4445.5	4453.8	4513.4	4581.2	4634.7	4665.5	4696.4	4659.4	4490.8	4295.4
10°	4024.0	4065.1	4087.7	4194.7	4299.5	4398.2	4494.9	4552.5	4542.2	4474.3	4196.7
12.5°	3723.8	3711.5	3793.7	3863.6	3968.5	4167.9	4336.6	4390.0	4451.7	4357.1	4067.2
15°	3446.2	3413.3	3462.7	3584.0	3762.9	3921.2	4157.7	4237.9	4316.0	4340.7	3997.3
17.5°	3181.0	3197.4	3248.8	3357.8	3526.4	3748.5	3970.5	4085.7	4272.8	4239.9	3892.4
20°	3053.5	3088.4	3106.9	3162.5	3279.7	3501.7	3832.8	3925.3	4124.8	4237.9	3789.6
22.5°	3059.6	3059.6	3016.5	3049.4	3156.3	3329.0	3645.7	3748.5	4065.1	4130.9	3697.1
25°	3125.4	3084.3	3086.4	3047.3	3092.5	3187.1	3477.1	3602.5	3943.8	4141.2	3647.7
27.5°	3174.8	3166.6	3154.2	3143.9	3086.4	3100.8	3366.0	3468.8	3896.5	4128.9	3571.6
30°	3353.7	3316.7	3304.3	3281.7	3205.6	3135.7	3277.6	3407.1	3859.5	4157.7	3528.5
32.5°	3503.8	3510.0	3520.2	3454.4	3388.6	3215.9	3302.3	3405.1	3832.8	4223.5	3571.6
35°	3693.0	3719.7	3723.8	3703.2	3633.3	3462.7	3405.1	3493.5	3878.0	4340.7	3575.8
37.5°	3980.8	3952.0	4030.2	4038.4	3989.1	3762.9	3643.6	3678.6	4011.7	4527.8	3732.0
40°	4167.9	4202.9	4348.9	4439.4	4355.1	4149.4	3989.1	3982.9	4205.0	4821.8	3925.3
42.5°	4375.6	4453.8	4614.1	4809.5	4799.2	4608.0	4445.5	4418.8	4548.3	5247.5	4231.7
45°	4659.4	4729.3	4953.4	5247.5	5407.8	5245.4	5000.7	4947.2	4965.8	5827.3	4754.0
47.5°	5130.2	5111.7	5434.6	5724.5	5987.7	5862.3	5757.4	5601.1	5586.7	6510.0	5475.7
50°	5662.8	5658.7	5946.6	6275.6	6579.9	6824.6	6649.8	6479.1	6483.2	7437.3	6324.9
52.5°	6168.6	6248.8	6559.3	6886.3	7408.5	7671.7	7840.3	7772.5	7445.5	8266.0	7233.8
55°	6435.9	6505.9	6814.3	7377.7	8202.2	8878.7	9335.2	9277.6	8646.4	9199.5	8130.3
57.5°	6183.0	6230.3	6647.7	7385.9	8757.4	10266.7	10704.6	10632.7	9888.3	9913.0	9213.9
60°	5124.1	5198.1	5819.1	6684.7	8541.5	11335.9	12590.2	12481.2	11019.2	10815.7	9910.9
62.5°	3549.0	3598.4	4108.3	5185.8	7517.5	11708.1	14370.9	14430.5	12211.8	11518.9	10118.6
65°	2298.8	2294.7	2586.7	3316.7	5327.6	10581.3	15423.6	15793.8	13363.3	11625.8	10054.9
67°	1624.4	1618.2	1756.0	2249.5	3688.8	8718.3	15405.1	16200.9	13988.4	11656.7	9464.7
67.5°	1499.0	1492.8	1624.4	2068.5	3329.0	8107.6	15174.8	15991.2	14208.4	11613.5	9205.7
70°	1163.8	1147.4	1196.7	1425.0	1939.0	5243.3	12987.0	14689.6	13751.9	10536.0	7351.0
72.5°	841.0	859.5	937.6	1170.0	1521.6	2821.1	9898.6	11878.7	11486.0	7941.1	4671.7
75°	586.0	602.5	727.9	954.1	1396.2	1710.8	6693.0	8615.5	8000.7	4383.8	1990.4
77.5°	306.4	326.9	464.7	762.9	1268.7	1324.2	3999.3	5463.4	4239.9	1560.7	549.0
80°	141.9	152.2	232.4	540.8	1061.0	1163.8	2331.7	3039.1	1696.4	349.6	189.2
82.5°	61.7	67.9	106.9	310.5	752.6	1017.8	1443.5	1593.6	614.8	113.1	117.2
85°	12.3	14.4	41.1	164.5	363.9	616.9	1013.7	945.9	308.4	55.5	92.5
87.5°	0.0	0.0	10.3	47.3	98.7	183.0	429.7	429.7	94.6	28.8	35.0
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°	4388.0	4388.0	4388.0	4388.0	4388.0	4388.0	4388.0	4388.0	4388.0	4388.0	4388.0
2.5°	4390.0	4316.0	4153.5	4003.4	3896.5	3775.2	3614.8	3542.9	3516.1	3479.1	3423.6
5°	4274.9	4184.4	3906.8	3627.2	3320.8	3088.4	2841.7	2697.7	2588.8	2520.9	2498.3
7.5°	4112.4	3927.4	3553.1	3104.9	2708.0	2362.6	1988.4	1735.4	1573.0	1507.2	1445.5
10°	3982.9	3742.3	3172.7	2615.5	2087.1	1581.2	1159.7	937.6	769.0	705.3	697.1
12.5°	3814.3	3526.4	2817.0	2115.8	1451.7	941.7	641.5	557.2	509.9	501.7	495.5
15°	3674.5	3331.1	2479.8	1638.8	939.7	588.1	499.7	479.1	466.8	462.6	464.7
17.5°	3579.9	3121.3	2134.3	1192.6	618.9	481.2	460.6	448.3	442.1	440.0	433.9
20°	3392.7	2944.5	1793.0	834.8	483.2	444.1	427.7	417.4	411.2	409.2	407.1
22.5°	3285.8	2720.4	1451.7	581.9	429.7	403.0	390.7	382.5	372.2	366.0	363.9
25°	3178.9	2555.9	1147.4	452.4	390.7	372.2	353.7	343.4	326.9	318.7	316.7
27.5°	3053.5	2393.4	884.2	392.7	351.6	333.1	314.6	298.2	277.6	269.4	265.3
30°	2981.5	2235.1	666.2	351.6	322.8	298.2	275.5	255.0	232.4	218.0	213.8
32.5°	2944.5	2091.2	499.7	320.8	292.0	265.3	236.5	211.8	191.2	178.9	176.8
35°	2899.3	1951.3	392.7	292.0	263.2	234.4	205.6	180.9	160.4	150.1	146.0
37.5°	2946.6	1869.1	326.9	269.4	240.6	207.7	176.8	152.2	135.7	125.4	123.4
40°	3076.1	1801.2	283.8	248.8	218.0	183.0	154.2	129.5	115.1	106.9	102.8
42.5°	3275.5	1801.2	257.0	228.2	197.4	160.4	131.6	113.1	98.7	90.5	88.4
45°	3637.4	1856.8	234.4	207.7	172.7	137.8	113.1	94.6	80.2	72.0	69.9
47.5°	4145.3	1984.2	215.9	189.2	154.2	121.3	98.7	80.2	65.8	57.6	55.5
50°	4828.0	2274.2	197.4	166.6	137.8	104.9	82.2	63.7	51.4	43.2	41.1
52.5°	5679.3	2685.4	178.9	154.2	117.2	88.4	65.8	51.4	39.1	32.9	30.8
55°	6579.9	3189.2	156.3	137.8	100.8	74.0	53.5	39.1	28.8	24.7	22.6
57.5°	7486.7	3577.8	137.8	119.3	82.2	59.6	43.2	30.8	20.6	16.4	14.4
60°	7967.8	3614.8	119.3	98.7	65.8	47.3	32.9	22.6	14.4	10.3	8.2
62.5°	8041.8	3285.8	102.8	80.2	53.5	37.0	22.6	16.4	8.2	4.1	4.1
65°	7661.4	2738.9	88.4	63.7	41.1	26.7	16.4	10.3	4.1	2.1	0.0
67°	7044.6	2294.7	76.1	53.5	32.9	20.6	12.3	6.2	2.1	0.0	0.0
67.5°	6806.1	2171.4	72.0	49.3	30.8	18.5	10.3	6.2	2.1	0.0	0.0
70°	5282.4	1550.4	53.5	35.0	22.6	14.4	8.2	4.1	0.0	0.0	0.0
72.5°	3236.5	906.8	41.1	24.7	16.4	10.3	6.2	2.1	0.0	0.0	0.0
75°	1357.1	312.5	35.0	18.5	12.3	6.2	4.1	2.1	0.0	0.0	0.0
77.5°	353.7	117.2	24.7	12.3	8.2	6.2	4.1	2.1	0.0	0.0	0.0
80°	143.9	53.5	16.4	8.2	8.2	6.2	4.1	2.1	0.0	0.0	0.0
82.5°	94.6	24.7	10.3	8.2	6.2	4.1	2.1	0.0	0.0	0.0	0.0
85°	72.0	14.4	6.2	6.2	4.1	2.1	0.0	0.0	0.0	0.0	0.0
87.5°	30.8	8.2	6.2	4.1	4.1	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)