

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: P484554

Luminaire Tested: **IFLD-S-SA3C-830-U-SL3-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P484554
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3C-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

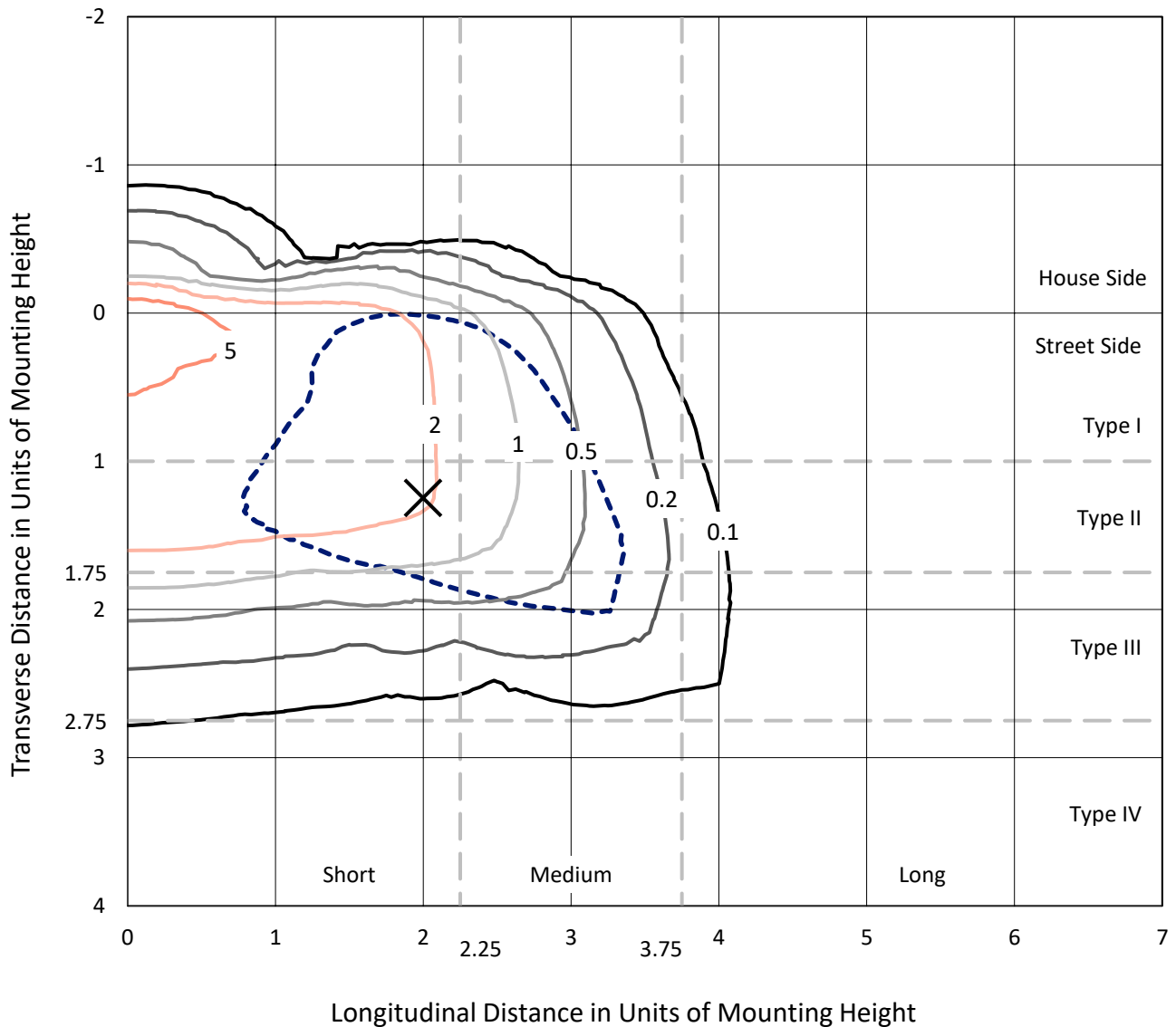
Lumens per Lamp: N/A
Luminaire Lumens: 14075.9 lumens
Efficiency: N/A
Efficacy: 87.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G3

Input Watts (W): 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

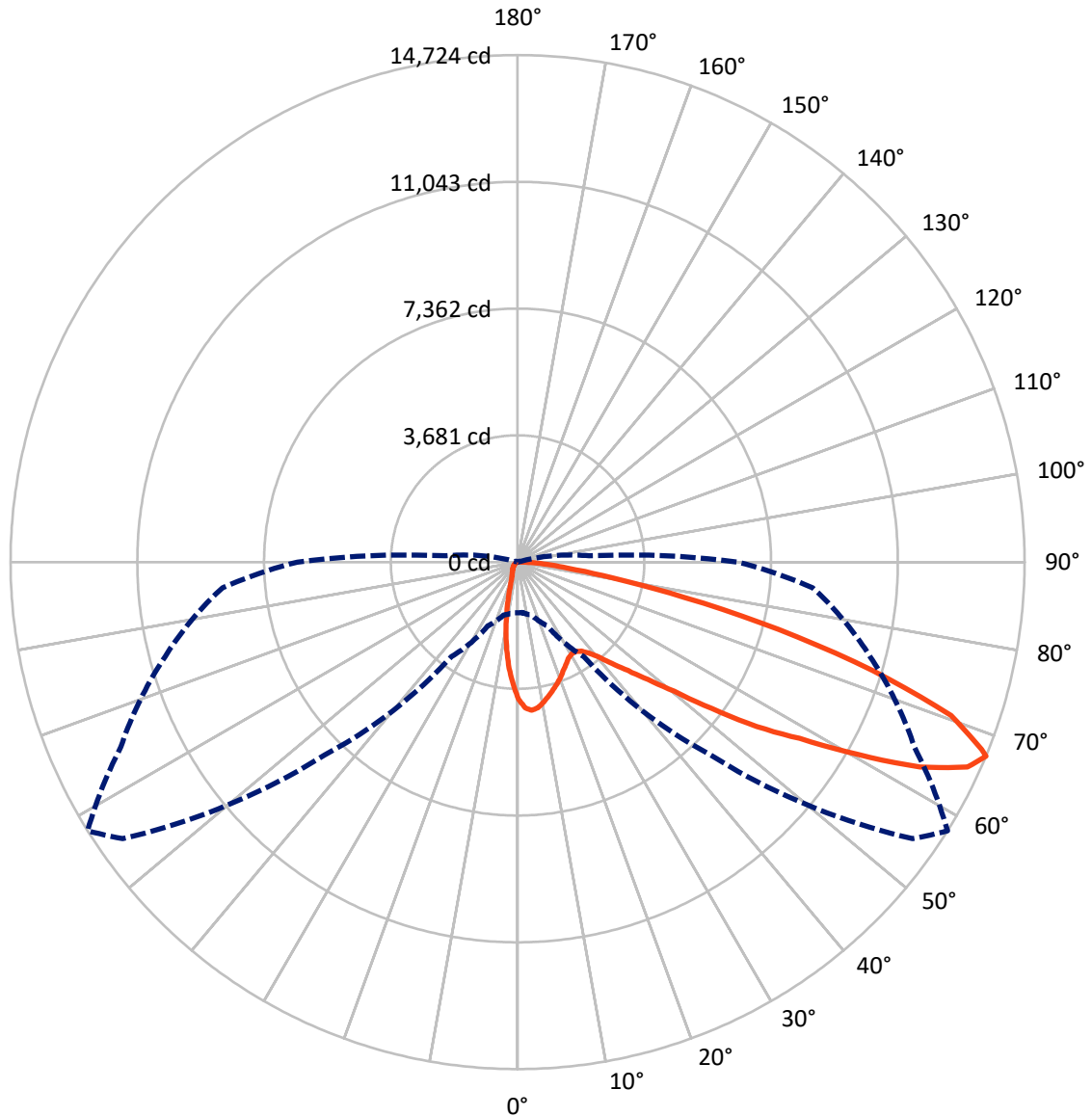
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 10 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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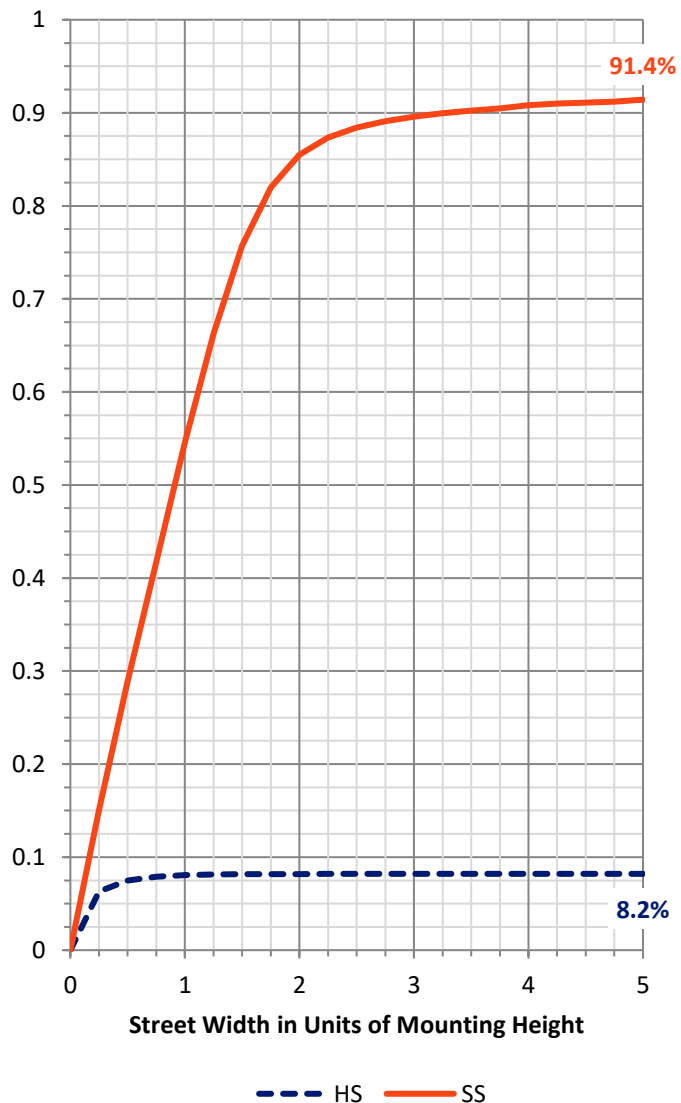
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1163.5	0.0	1163.5
	% Fixture	8.3	0.0	8.3
Street Side	Lumens	12912.4	0.0	12912.4
	% Fixture	91.7	0.0	91.7
Total	Lumens	14075.9	0.0	14075.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	316.4	2.2
10°-20°	656.3	4.7
20°-30°	870.8	6.2
30°-40°	1206.6	8.6
40°-50°	1968.9	14.0
50°-60°	3460.7	24.6
60°-70°	3832.9	27.2
70°-80°	1588.4	11.3
80°-90°	174.9	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°	14075.9	100.0
0°-180°	14075.9	100.0

Coefficient of Utilization



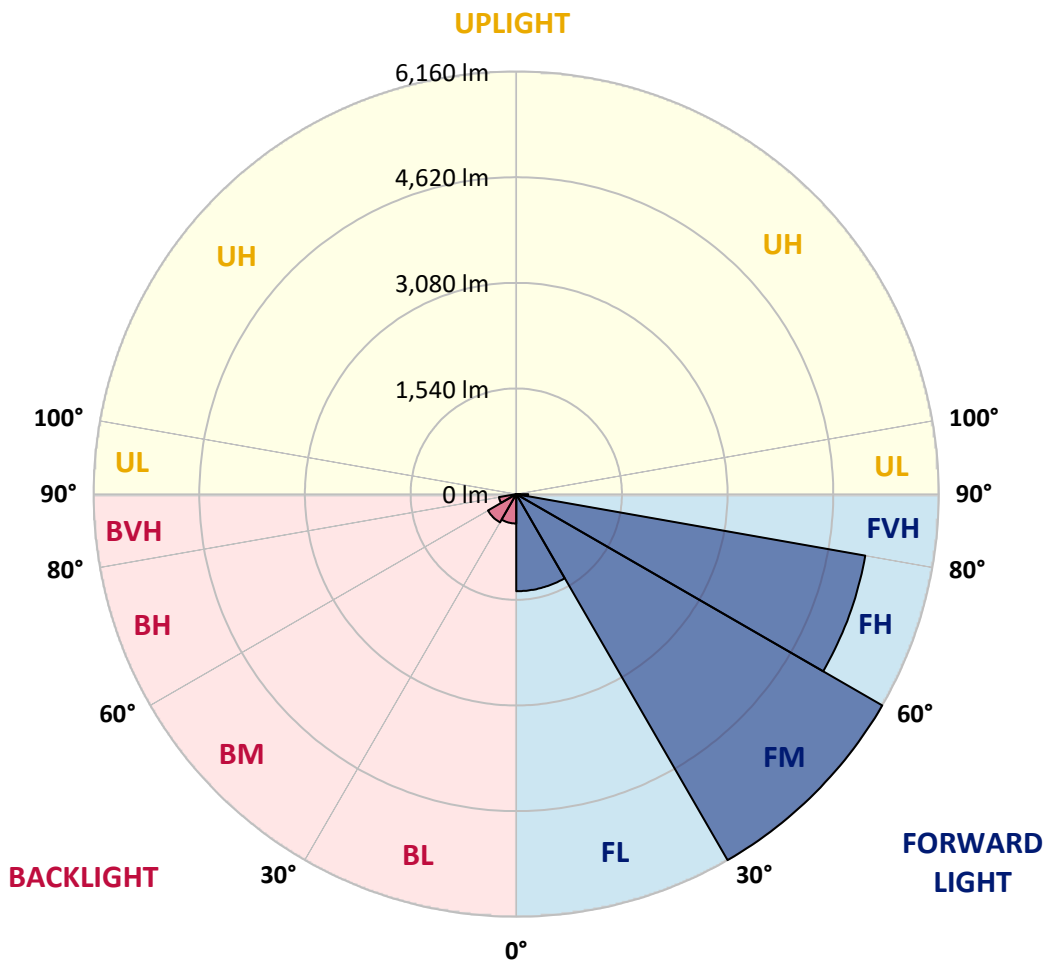
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1415.0	10.1			
FM (30°-60°)	6159.9	43.8			
FH (60°-80°)	5165.5	36.7			G3/7500
FVH (80°-90°)	172.0	1.2			G2/225
BL (0°-30°)	428.5	3.0	B1/500		
BM (30°-60°)	476.3	3.4	B1/1000		
BH (60°-80°)	255.8	1.8	B1/500		G1/500
BVH (80°-90°)	2.9	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°	3987.9	3987.9	3987.9	3987.9	3987.9	3987.9	3987.9	3987.9	3987.9	3987.9	3987.9
2.5°	4339.2	4354.2	4367.2	4342.9	4363.5	4333.6	4257.0	4240.2	4227.1	4113.1	4047.7
5°	4337.3	4320.5	4333.6	4344.8	4316.8	4339.2	4320.5	4322.4	4271.9	4169.1	3986.0
7.5°	4047.7	4040.2	4047.7	4101.9	4163.5	4212.1	4240.2	4268.2	4234.6	4081.3	3903.8
10°	3657.1	3694.5	3715.0	3812.2	3907.5	3997.2	4085.1	4137.4	4128.0	4066.4	3814.1
12.5°	3384.3	3373.1	3447.8	3511.4	3606.7	3787.9	3941.2	3989.7	4045.8	3959.9	3696.4
15°	3132.0	3102.1	3147.0	3257.2	3419.8	3563.7	3778.6	3851.5	3922.5	3944.9	3632.8
17.5°	2890.9	2905.9	2952.6	3051.6	3204.9	3406.7	3608.5	3713.2	3883.2	3853.3	3537.5
20°	2775.1	2806.8	2823.7	2874.1	2980.6	3182.5	3483.3	3567.4	3748.7	3851.5	3444.1
22.5°	2780.7	2780.7	2741.4	2771.3	2868.5	3025.5	3313.3	3406.7	3694.5	3754.3	3360.0
25°	2840.5	2803.1	2805.0	2769.5	2810.6	2896.5	3160.0	3274.0	3584.2	3763.6	3315.1
27.5°	2885.3	2877.9	2866.6	2857.3	2805.0	2818.1	3059.1	3152.6	3541.3	3752.4	3246.0
30°	3047.9	3014.3	3003.1	2982.5	2913.4	2849.8	2978.8	3096.5	3507.6	3778.6	3206.7
32.5°	3184.3	3189.9	3199.3	3139.5	3079.7	2922.7	3001.2	3094.6	3483.3	3838.4	3246.0
35°	3356.2	3380.5	3384.3	3365.6	3302.1	3147.0	3094.6	3175.0	3524.4	3944.9	3249.7
37.5°	3617.9	3591.7	3662.7	3670.2	3625.3	3419.8	3311.4	3343.2	3645.9	4115.0	3391.8
40°	3787.9	3819.7	3952.4	4034.6	3958.0	3771.1	3625.3	3619.7	3821.6	4382.2	3567.4
42.5°	3976.7	4047.7	4193.4	4371.0	4361.6	4187.8	4040.2	4015.9	4133.6	4769.0	3845.9
45°	4234.6	4298.1	4501.8	4769.0	4914.8	4767.1	4544.8	4496.2	4513.0	5296.0	4320.5
47.5°	4662.5	4645.7	4939.1	5202.6	5441.8	5327.8	5232.5	5090.4	5077.4	5916.4	4976.4
50°	5146.5	5142.8	5404.4	5703.4	5980.0	6202.3	6043.5	5888.4	5892.1	6759.2	5748.2
52.5°	5606.2	5679.1	5961.3	6258.4	6733.1	6972.3	7125.5	7063.8	6766.7	7512.3	6574.2
55°	5849.1	5912.7	6193.0	6705.0	7454.4	8069.2	8484.1	8431.7	7858.0	8360.7	7389.0
57.5°	5619.3	5662.3	6041.6	6712.5	7958.9	9330.6	9728.6	9663.2	8986.7	9009.2	8373.8
60°	4656.9	4724.2	5288.5	6075.3	7762.7	10302.3	11442.3	11343.2	10014.6	9829.5	9007.3
62.5°	3225.4	3270.3	3733.7	4713.0	6832.1	10640.6	13060.6	13114.8	11098.4	10468.7	9196.0
65°	2089.2	2085.5	2350.9	3014.3	4841.9	9616.5	14017.4	14353.8	12144.9	10565.8	9138.1
67°	1476.3	1470.7	1595.9	2044.4	3352.5	7923.4	14000.6	14723.8	12713.0	10593.9	8601.8
67.5°	1362.3	1356.7	1476.3	1879.9	3025.5	7368.4	13791.3	14533.2	12913.0	10554.6	8366.3
70°	1057.7	1042.8	1087.6	1295.0	1762.2	4765.3	11802.9	13350.2	12498.1	9575.4	6680.7
72.5°	764.3	781.1	852.1	1063.3	1382.9	2563.9	8996.1	10795.7	10438.8	7217.1	4245.8
75°	532.6	547.5	661.5	867.1	1268.9	1554.8	6082.7	7830.0	7271.2	3984.1	1808.9
77.5°	278.4	297.1	422.3	693.3	1153.0	1203.5	3634.7	4965.2	3853.3	1418.4	499.0
80°	128.9	138.3	211.2	491.5	964.3	1057.7	2119.1	2762.0	1541.7	317.7	171.9
82.5°	56.1	61.7	97.2	282.2	684.0	925.0	1311.9	1448.3	558.8	102.8	106.5
85°	11.2	13.1	37.4	149.5	330.8	560.6	921.3	859.6	280.3	50.5	84.1
87.5°	0.0	0.0	9.3	43.0	89.7	166.3	390.6	390.6	86.0	26.2	31.8
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°	3987.9	3987.9	3987.9	3987.9	3987.9	3987.9	3987.9	3987.9	3987.9	3987.9	3987.9
2.5°	3989.7	3922.5	3774.8	3638.4	3541.3	3431.0	3285.2	3219.8	3195.5	3161.9	3111.4
5°	3885.1	3802.9	3550.6	3296.4	3018.0	2806.8	2582.6	2451.8	2352.7	2291.1	2270.5
7.5°	3737.5	3569.3	3229.2	2821.8	2461.1	2147.2	1807.1	1577.2	1429.6	1369.8	1313.7
10°	3619.7	3401.1	2883.5	2377.0	1896.8	1437.1	1054.0	852.1	698.9	641.0	633.5
12.5°	3466.5	3204.9	2560.2	1922.9	1319.3	855.9	583.0	506.4	463.4	456.0	450.4
15°	3339.4	3027.4	2253.7	1489.4	854.0	534.5	454.1	435.4	424.2	420.5	422.3
17.5°	3253.5	2836.7	1939.7	1083.9	562.5	437.3	418.6	407.4	401.8	399.9	394.3
20°	3083.4	2676.0	1629.5	758.7	439.2	403.6	388.7	379.4	373.7	371.9	370.0
22.5°	2986.2	2472.3	1319.3	528.9	390.6	366.3	355.1	347.6	338.2	332.6	330.8
25°	2889.1	2322.8	1042.8	411.1	355.1	338.2	321.4	312.1	297.1	289.7	287.8
27.5°	2775.1	2175.2	803.6	356.9	319.6	302.7	285.9	271.0	252.3	244.8	241.1
30°	2709.7	2031.3	605.5	319.6	293.4	271.0	250.4	231.7	211.2	198.1	194.3
32.5°	2676.0	1900.5	454.1	291.5	265.4	241.1	214.9	192.5	173.8	162.6	160.7
35°	2634.9	1773.4	356.9	265.4	239.2	213.0	186.9	164.4	145.8	136.4	132.7
37.5°	2677.9	1698.7	297.1	244.8	218.6	188.7	160.7	138.3	123.3	114.0	112.1
40°	2795.6	1637.0	257.9	226.1	198.1	166.3	140.2	117.7	104.6	97.2	93.4
42.5°	2976.9	1637.0	233.6	207.4	179.4	145.8	119.6	102.8	89.7	82.2	80.4
45°	3305.8	1687.5	213.0	188.7	157.0	125.2	102.8	86.0	72.9	65.4	63.5
47.5°	3767.4	1803.3	196.2	171.9	140.2	110.3	89.7	72.9	59.8	52.3	50.5
50°	4387.8	2066.8	179.4	151.4	125.2	95.3	74.7	57.9	46.7	39.2	37.4
52.5°	5161.4	2440.6	162.6	140.2	106.5	80.4	59.8	46.7	35.5	29.9	28.0
55°	5980.0	2898.4	142.0	125.2	91.6	67.3	48.6	35.5	26.2	22.4	20.6
57.5°	6804.1	3251.6	125.2	108.4	74.7	54.2	39.2	28.0	18.7	14.9	13.1
60°	7241.3	3285.2	108.4	89.7	59.8	43.0	29.9	20.6	13.1	9.3	7.5
62.5°	7308.6	2986.2	93.4	72.9	48.6	33.6	20.6	14.9	7.5	3.7	3.7
65°	6962.9	2489.2	80.4	57.9	37.4	24.3	14.9	9.3	3.7	1.9	0.0
67°	6402.3	2085.5	69.1	48.6	29.9	18.7	11.2	5.6	1.9	0.0	0.0
67.5°	6185.5	1973.4	65.4	44.8	28.0	16.8	9.3	5.6	1.9	0.0	0.0
70°	4800.8	1409.0	48.6	31.8	20.6	13.1	7.5	3.7	0.0	0.0	0.0
72.5°	2941.4	824.1	37.4	22.4	14.9	9.3	5.6	1.9	0.0	0.0	0.0
75°	1233.4	284.0	31.8	16.8	11.2	5.6	3.7	1.9	0.0	0.0	0.0
77.5°	321.4	106.5	22.4	11.2	7.5	5.6	3.7	1.9	0.0	0.0	0.0
80°	130.8	48.6	14.9	7.5	7.5	5.6	3.7	1.9	0.0	0.0	0.0
82.5°	86.0	22.4	9.3	7.5	5.6	3.7	1.9	0.0	0.0	0.0	0.0
85°	65.4	13.1	5.6	5.6	3.7	1.9	0.0	0.0	0.0	0.0	0.0
87.5°	28.0	7.5	5.6	3.7	3.7	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)