

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: P484553

Luminaire Tested: **IFLD-S-SA3B-830-U-SL3-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P484553
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3B-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

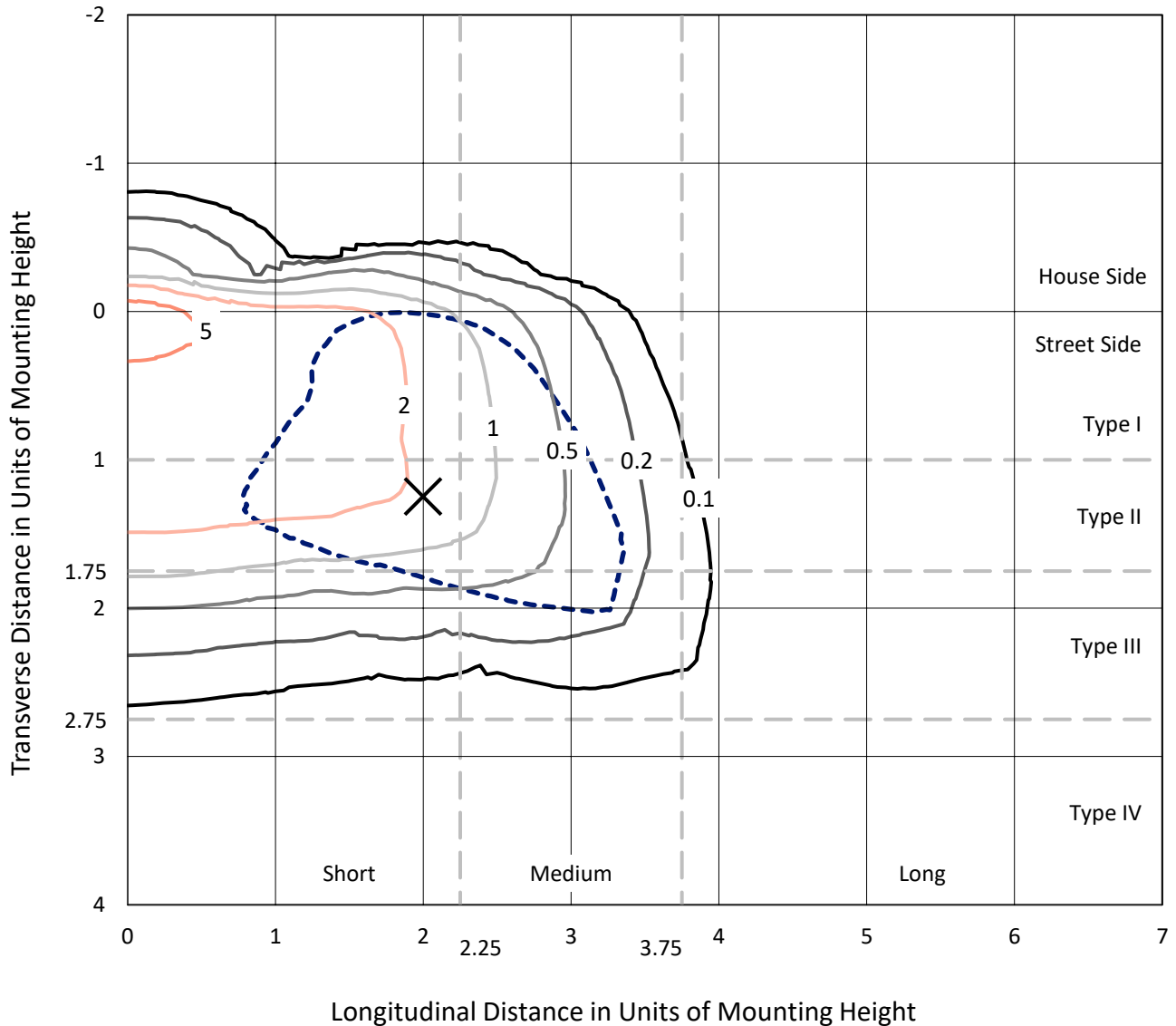
Lumens per Lamp: N/A
Luminaire Lumens: 11307.4 lumens
Efficiency: N/A
Efficacy: 92.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 122.4
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

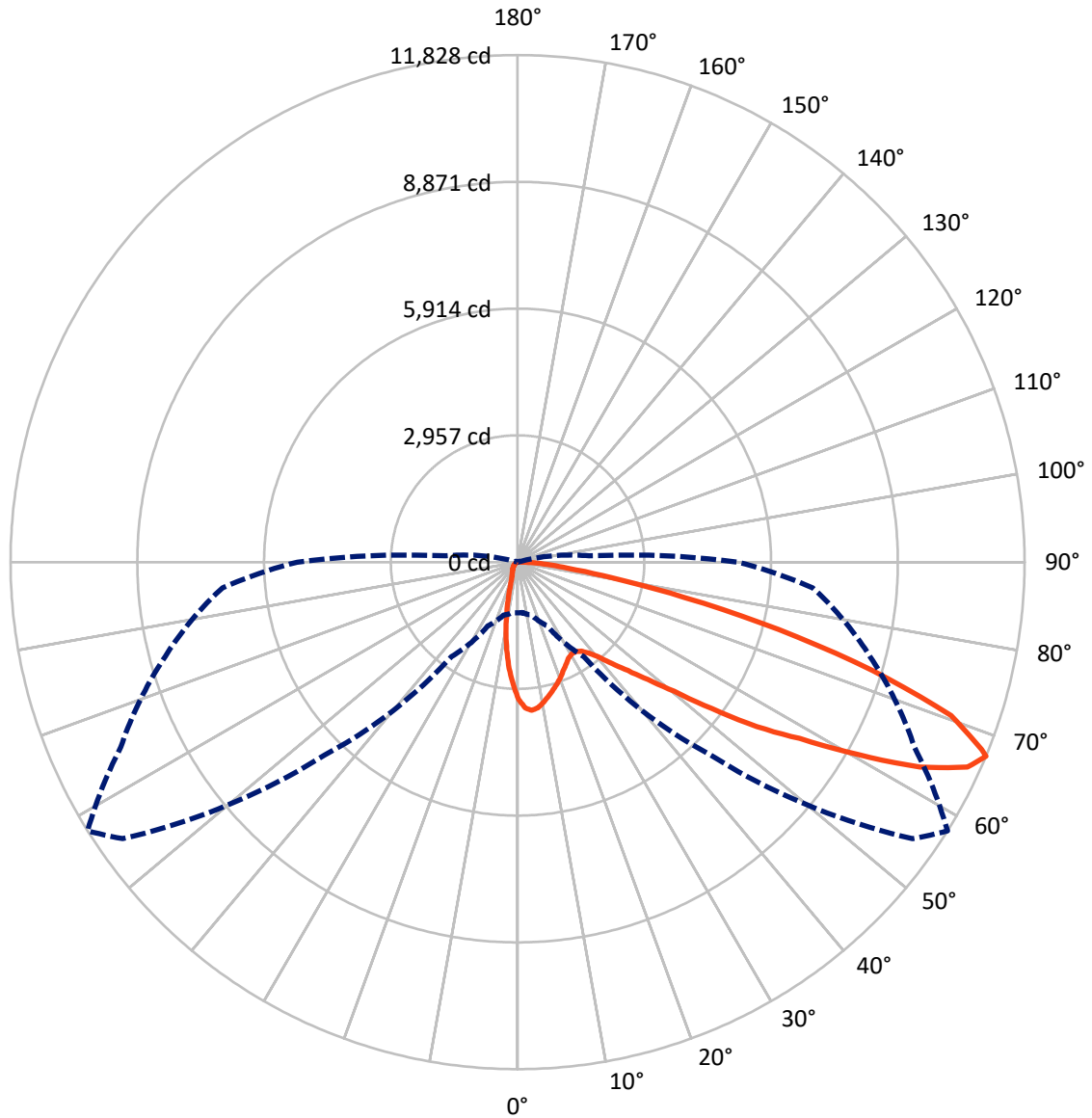
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 8 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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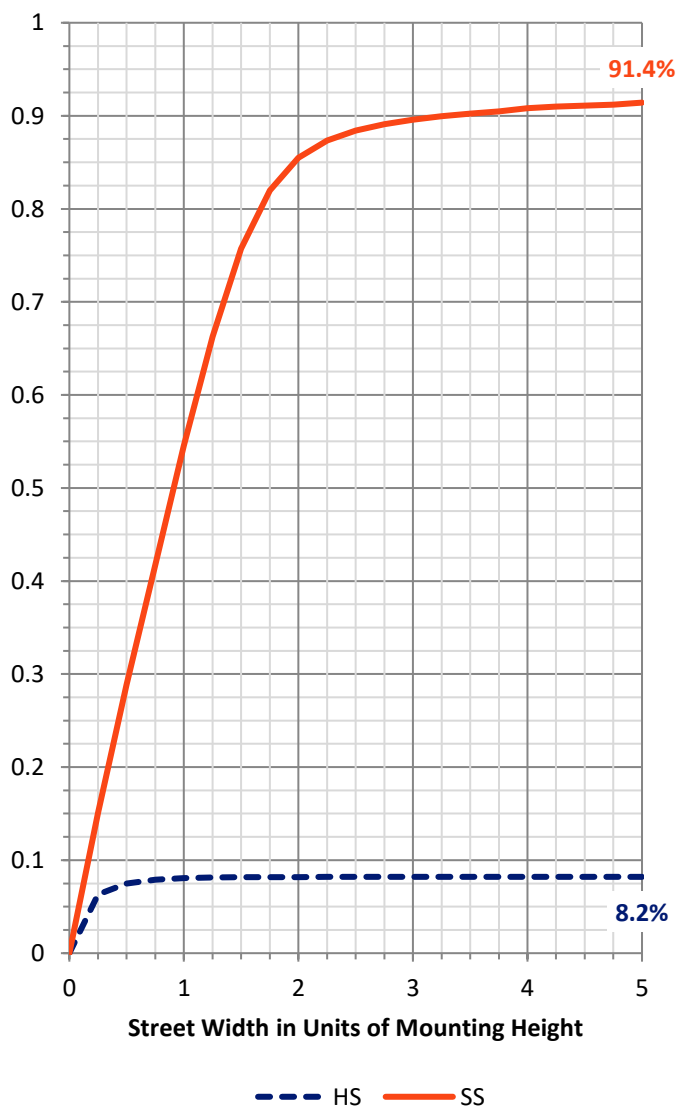
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	934.6	0.0	934.6
	% Fixture	8.3	0.0	8.3
Street Side	Lumens	10372.8	0.0	10372.8
	% Fixture	91.7	0.0	91.7
Total	Lumens	11307.4	0.0	11307.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	254.2	2.2
10°-20°	527.2	4.7
20°-30°	699.5	6.2
30°-40°	969.3	8.6
40°-50°	1581.6	14.0
50°-60°	2780.0	24.6
60°-70°	3079.1	27.2
70°-80°	1276.0	11.3
80°-90°	140.5	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°	11307.4	100.0
0°-180°	11307.4	100.0

Coefficient of Utilization



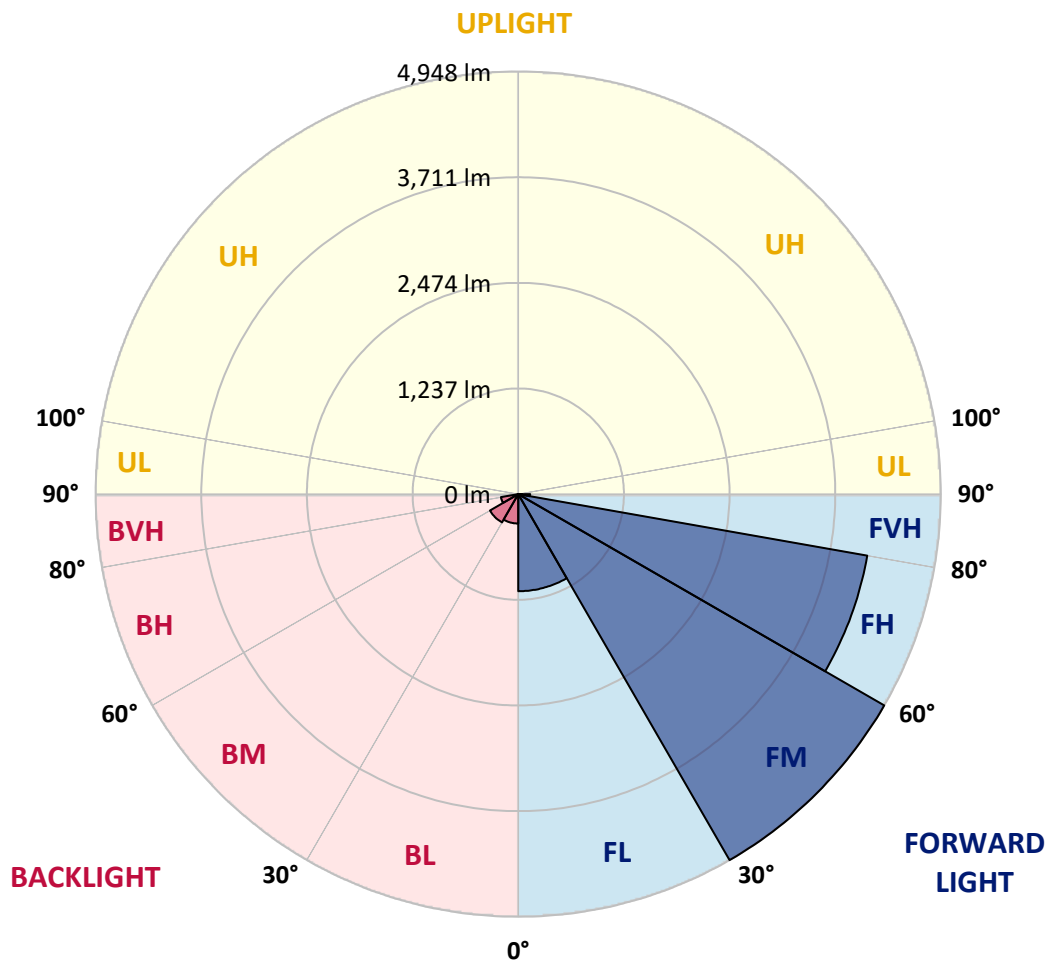
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1136.7	10.1			
FM (30°-60°)	4948.3	43.8			
FH (60°-80°)	4149.6	36.7			G2/5000
FVH (80°-90°)	138.2	1.2			G2/225
BL (0°-30°)	344.2	3.0	B1/500		
BM (30°-60°)	382.6	3.4	B1/1000		
BH (60°-80°)	205.5	1.8	B1/500		G1/500
BVH (80°-90°)	2.3	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-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	3203.5	3203.5	3203.5	3203.5	3203.5	3203.5	3203.5	3203.5	3203.5	3203.5	3203.5
2.5°	3485.8	3497.8	3508.3	3488.8	3505.3	3481.3	3419.7	3406.2	3395.7	3304.1	3251.6
5°	3484.3	3470.7	3481.3	3490.3	3467.7	3485.8	3470.7	3472.2	3431.7	3349.2	3202.0
7.5°	3251.6	3245.6	3251.6	3295.1	3344.6	3383.7	3406.2	3428.7	3401.7	3278.6	3136.0
10°	2937.8	2967.8	2984.4	3062.4	3139.0	3211.0	3281.6	3323.6	3316.1	3266.6	3063.9
12.5°	2718.7	2709.6	2769.7	2820.7	2897.3	3042.9	3166.0	3205.0	3250.1	3181.0	2969.4
15°	2516.0	2492.0	2528.0	2616.6	2747.2	2862.8	3035.4	3093.9	3151.0	3169.0	2918.3
17.5°	2322.3	2334.3	2371.9	2451.4	2574.5	2736.7	2898.8	2982.9	3119.5	3095.5	2841.8
20°	2229.3	2254.8	2268.3	2308.8	2394.4	2556.5	2798.2	2865.8	3011.4	3093.9	2766.7
22.5°	2233.8	2233.8	2202.2	2226.3	2304.3	2430.4	2661.6	2736.7	2967.8	3015.9	2699.1
25°	2281.8	2251.8	2253.3	2224.8	2257.8	2326.8	2538.5	2630.1	2879.3	3023.4	2663.1
27.5°	2317.8	2311.8	2302.8	2295.3	2253.3	2263.8	2457.4	2532.5	2844.8	3014.4	2607.6
30°	2448.4	2421.4	2412.4	2395.9	2340.4	2289.3	2392.9	2487.5	2817.7	3035.4	2576.0
32.5°	2558.0	2562.5	2570.0	2522.0	2474.0	2347.9	2410.9	2486.0	2798.2	3083.4	2607.6
35°	2696.1	2715.7	2718.7	2703.6	2652.6	2528.0	2486.0	2550.5	2831.2	3169.0	2610.6
37.5°	2906.3	2885.3	2942.3	2948.3	2912.3	2747.2	2660.1	2685.6	2928.8	3305.6	2724.7
40°	3042.9	3068.4	3175.0	3241.1	3179.5	3029.4	2912.3	2907.8	3069.9	3520.3	2865.8
42.5°	3194.5	3251.6	3368.7	3511.3	3503.8	3364.2	3245.6	3226.1	3320.6	3831.0	3089.4
45°	3401.7	3452.7	3616.4	3831.0	3948.1	3829.5	3650.9	3611.9	3625.4	4254.4	3470.7
47.5°	3745.5	3732.0	3967.6	4179.3	4371.5	4279.9	4203.3	4089.2	4078.7	4752.8	3997.7
50°	4134.3	4131.3	4341.4	4581.6	4803.8	4982.4	4854.8	4730.2	4733.2	5429.8	4617.7
52.5°	4503.6	4562.1	4788.8	5027.5	5408.8	5600.9	5724.0	5674.5	5435.8	6034.8	5281.2
55°	4698.7	4749.8	4974.9	5386.3	5988.2	6482.1	6815.4	6773.4	6312.5	6716.3	5935.7
57.5°	4514.1	4548.6	4853.3	5392.3	6393.6	7495.4	7815.2	7762.6	7219.2	7237.2	6726.8
60°	3741.0	3795.0	4248.4	4880.4	6235.9	8276.1	9191.8	9112.2	8044.9	7896.3	7235.7
62.5°	2591.1	2627.1	2999.4	3786.0	5488.3	8547.8	10491.8	10535.3	8915.6	8409.7	7387.3
65°	1678.3	1675.3	1888.5	2421.4	3889.6	7725.1	11260.4	11530.6	9756.2	8487.7	7340.8
67°	1185.9	1181.4	1282.0	1642.3	2693.1	6365.0	11246.9	11827.9	10212.6	8510.2	6910.0
67.5°	1094.4	1089.9	1185.9	1510.2	2430.4	5919.2	11078.8	11674.7	10373.2	8478.7	6720.8
70°	849.7	837.7	873.7	1040.3	1415.6	3828.0	9481.5	10724.5	10039.9	7692.1	5366.7
72.5°	614.0	627.5	684.5	854.2	1110.9	2059.6	7226.7	8672.4	8385.6	5797.6	3410.7
75°	427.8	439.8	531.4	696.6	1019.3	1249.0	4886.4	6290.0	5841.1	3200.5	1453.2
77.5°	223.7	238.7	339.3	556.9	926.2	966.8	2919.8	3988.7	3095.5	1139.4	400.8
80°	103.6	111.1	169.6	394.8	774.6	849.7	1702.3	2218.8	1238.5	255.2	138.1
82.5°	45.0	49.5	78.1	226.7	549.4	743.1	1053.8	1163.4	448.9	82.6	85.6
85°	9.0	10.5	30.0	120.1	265.7	450.4	740.1	690.5	225.2	40.5	67.6
87.5°	0.0	0.0	7.5	34.5	72.1	133.6	313.7	313.7	69.1	21.0	25.5
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°	3203.5	3203.5	3203.5	3203.5	3203.5	3203.5	3203.5	3203.5	3203.5	3203.5	3203.5
2.5°	3205.0	3151.0	3032.4	2922.8	2844.8	2756.2	2639.1	2586.5	2567.0	2540.0	2499.5
5°	3121.0	3054.9	2852.3	2648.1	2424.4	2254.8	2074.6	1969.6	1890.0	1840.5	1823.9
7.5°	3002.4	2867.3	2594.1	2266.8	1977.1	1724.9	1451.6	1267.0	1148.4	1100.4	1055.3
10°	2907.8	2732.2	2316.3	1909.5	1523.7	1154.4	846.7	684.5	561.4	514.9	508.9
12.5°	2784.7	2574.5	2056.6	1544.7	1059.8	687.5	468.4	406.8	372.3	366.3	361.8
15°	2682.6	2431.9	1810.4	1196.4	686.0	429.3	364.8	349.8	340.8	337.8	339.3
17.5°	2613.6	2278.8	1558.2	870.7	451.9	351.3	336.3	327.3	322.8	321.3	316.8
20°	2477.0	2149.7	1309.0	609.5	352.8	324.3	312.2	304.7	300.2	298.7	297.2
22.5°	2398.9	1986.1	1059.8	424.8	313.7	294.2	285.2	279.2	271.7	267.2	265.7
25°	2320.8	1866.0	837.7	330.3	285.2	271.7	258.2	250.7	238.7	232.7	231.2
27.5°	2229.3	1747.4	645.5	286.7	256.7	243.2	229.7	217.7	202.7	196.7	193.7
30°	2176.7	1631.8	486.4	256.7	235.7	217.7	201.2	186.1	169.6	159.1	156.1
32.5°	2149.7	1526.7	364.8	234.2	213.2	193.7	172.6	154.6	139.6	130.6	129.1
35°	2116.7	1424.6	286.7	213.2	192.2	171.1	150.1	132.1	117.1	109.6	106.6
37.5°	2151.2	1364.6	238.7	196.7	175.6	151.6	129.1	111.1	99.1	91.6	90.1
40°	2245.8	1315.0	207.2	181.6	159.1	133.6	112.6	94.6	84.1	78.1	75.1
42.5°	2391.4	1315.0	187.6	166.6	144.1	117.1	96.1	82.6	72.1	66.1	64.6
45°	2655.6	1355.6	171.1	151.6	126.1	100.6	82.6	69.1	58.5	52.5	51.0
47.5°	3026.4	1448.6	157.6	138.1	112.6	88.6	72.1	58.5	48.0	42.0	40.5
50°	3524.8	1660.3	144.1	121.6	100.6	76.6	60.0	46.5	37.5	31.5	30.0
52.5°	4146.3	1960.6	130.6	112.6	85.6	64.6	48.0	37.5	28.5	24.0	22.5
55°	4803.8	2328.3	114.1	100.6	73.6	54.0	39.0	28.5	21.0	18.0	16.5
57.5°	5465.8	2612.1	100.6	87.1	60.0	43.5	31.5	22.5	15.0	12.0	10.5
60°	5817.1	2639.1	87.1	72.1	48.0	34.5	24.0	16.5	10.5	7.5	6.0
62.5°	5871.1	2398.9	75.1	58.5	39.0	27.0	16.5	12.0	6.0	3.0	3.0
65°	5593.4	1999.6	64.6	46.5	30.0	19.5	12.0	7.5	3.0	1.5	0.0
67°	5143.1	1675.3	55.5	39.0	24.0	15.0	9.0	4.5	1.5	0.0	0.0
67.5°	4968.9	1585.3	52.5	36.0	22.5	13.5	7.5	4.5	1.5	0.0	0.0
70°	3856.6	1131.9	39.0	25.5	16.5	10.5	6.0	3.0	0.0	0.0	0.0
72.5°	2362.9	662.0	30.0	18.0	12.0	7.5	4.5	1.5	0.0	0.0	0.0
75°	990.8	228.2	25.5	13.5	9.0	4.5	3.0	1.5	0.0	0.0	0.0
77.5°	258.2	85.6	18.0	9.0	6.0	4.5	3.0	1.5	0.0	0.0	0.0
80°	105.1	39.0	12.0	6.0	6.0	4.5	3.0	1.5	0.0	0.0	0.0
82.5°	69.1	18.0	7.5	6.0	4.5	3.0	1.5	0.0	0.0	0.0	0.0
85°	52.5	10.5	4.5	4.5	3.0	1.5	0.0	0.0	0.0	0.0	0.0
87.5°	22.5	6.0	4.5	3.0	3.0	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)