

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: P480531

Luminaire Tested: **IFLD-S-SA2B-750-U-SL3**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480531
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2B-750-U-SL3
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens
Light Source: (32) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

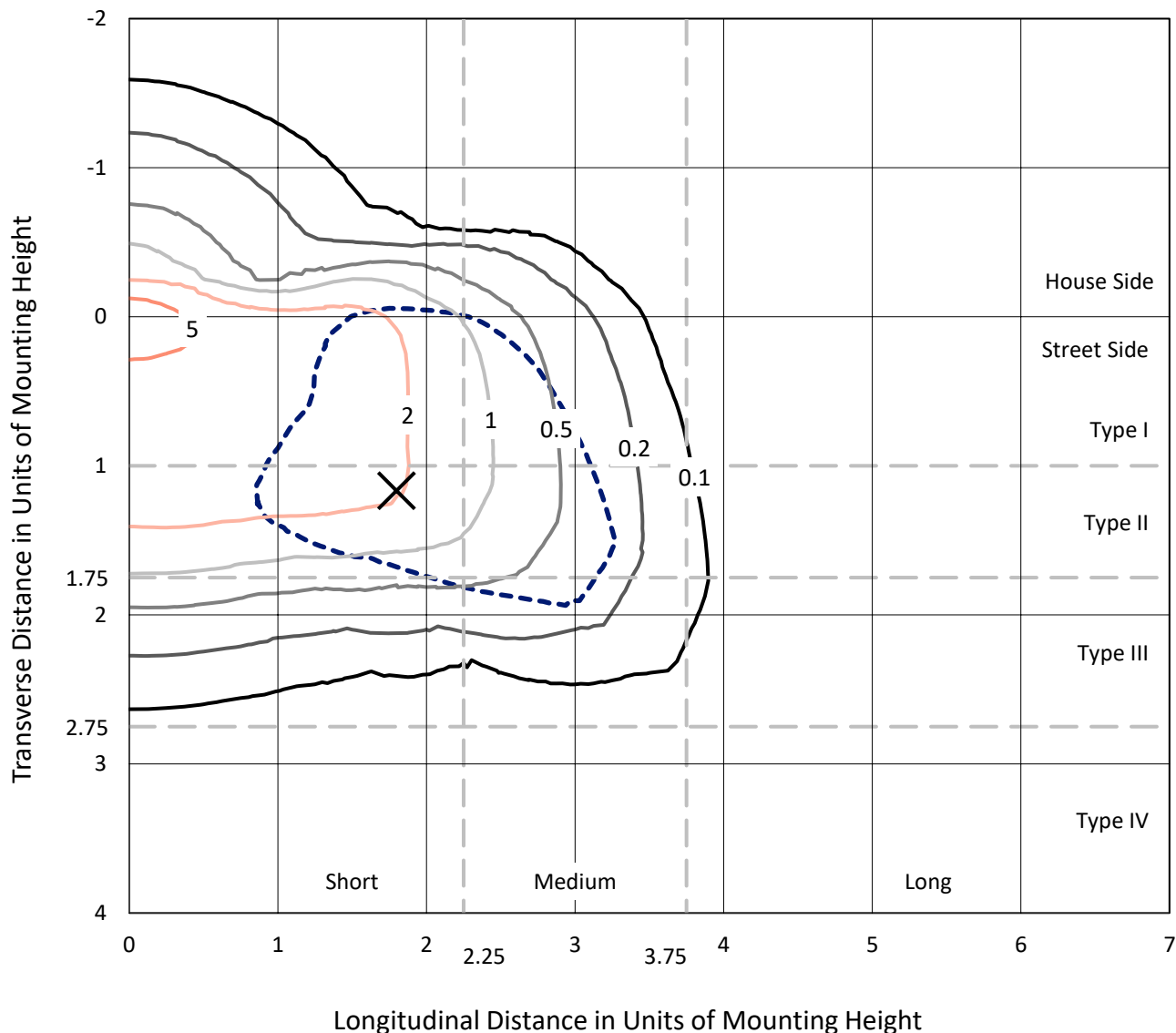
Lumens per Lamp: N/A
Luminaire Lumens: 11524.2 lumens
Efficiency: N/A
Efficacy: 139.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 82.4
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

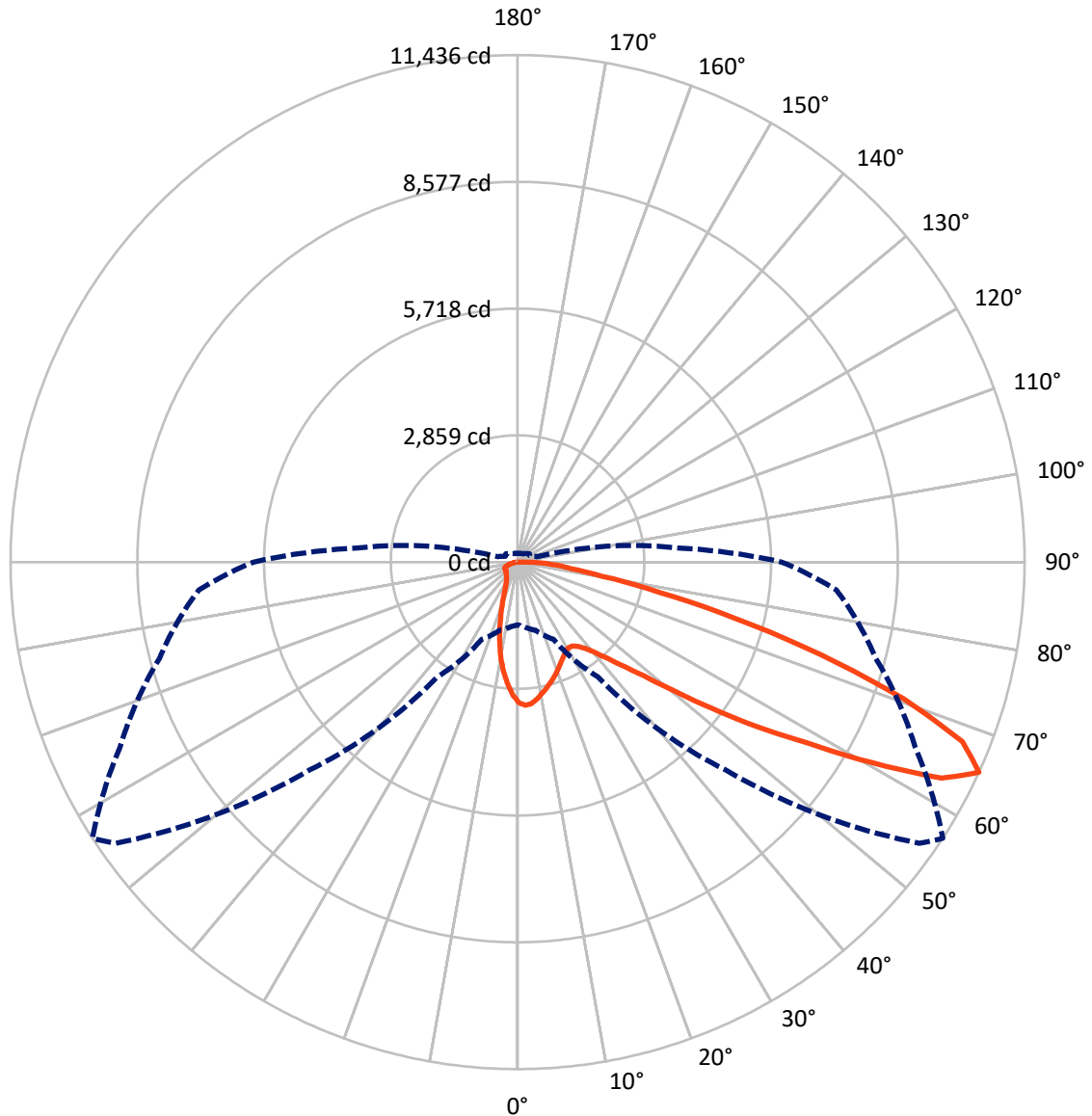
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 7.9 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1767.4	0.0	1767.4
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	9756.9	0.0	9756.9
	% Fixture	84.7	0.0	84.7
Total	Lumens	11524.2	0.0	11524.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	265.4	2.3
10°-20°	571.1	5.0
20°-30°	738.4	6.4
30°-40°	993.7	8.6
40°-50°	1584.5	13.7
50°-60°	2798.6	24.3
60°-70°	3078.8	26.7
70°-80°	1287.9	11.2
80°-90°	205.8	1.8
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°	11524.2	100.0
0°-180°	11524.2	100.0

Coefficient of Utilization

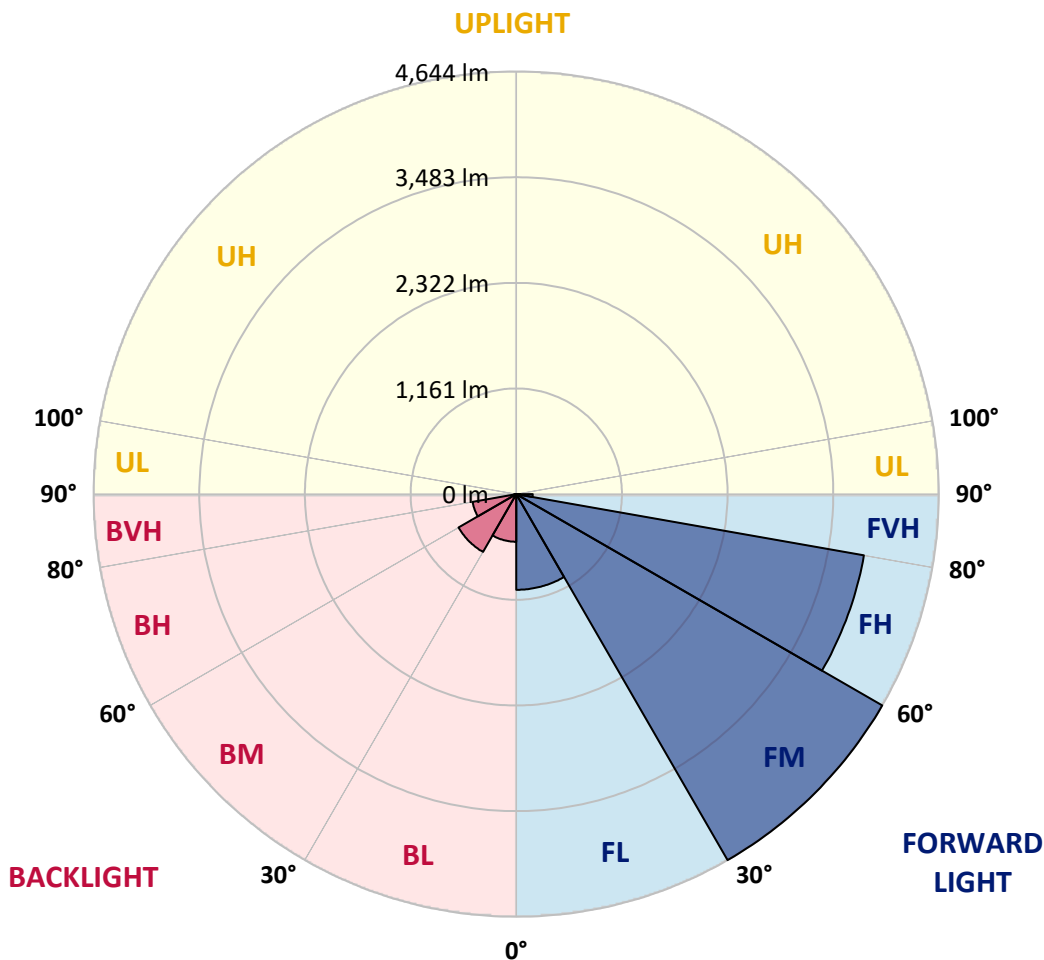


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1051.5	9.1			
FM (30°-60°)	4644.2	40.3			
FH (60°-80°)	3879.4	33.7			G2/5000
FVH (80°-90°)	181.7	1.6			G2/225
BL (0°-30°)	523.4	4.5	B2/1000		
BM (30°-60°)	732.5	6.4	B1/1000		
BH (60°-80°)	487.3	4.2	B1/500		G1/500
BVH (80°-90°)	24.1	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	3169.0	3169.0	3169.0	3169.0	3169.0	3169.0	3169.0	3169.0	3169.0	3169.0	3169.0
2.5°	3254.6	3259.8	3259.8	3270.1	3235.1	3252.0	3249.4	3233.8	3239.0	3211.8	3184.6
5°	3162.5	3158.6	3179.4	3182.0	3209.2	3217.0	3223.5	3213.1	3215.7	3156.0	3130.1
7.5°	2926.5	2925.2	2960.2	2990.1	3047.1	3100.3	3135.3	3124.9	3139.2	3101.6	3040.6
10°	2646.4	2676.3	2712.6	2742.4	2847.4	2914.9	3005.6	3014.7	3069.2	3060.1	2949.9
12.5°	2436.4	2449.4	2476.6	2562.2	2658.1	2769.6	2899.3	2911.0	2964.1	2990.1	2894.1
15°	2263.9	2275.6	2310.6	2374.2	2481.8	2614.0	2778.7	2808.5	2914.9	2923.9	2821.5
17.5°	2138.2	2147.2	2170.6	2234.1	2322.3	2492.1	2647.7	2700.9	2840.9	2885.0	2746.3
20°	2088.9	2069.4	2082.4	2122.6	2210.8	2341.7	2542.7	2589.4	2768.3	2855.2	2675.0
22.5°	2066.8	2050.0	2057.8	2055.2	2125.2	2218.6	2429.9	2479.2	2699.6	2820.2	2611.4
25°	2083.7	2083.7	2075.9	2069.4	2077.2	2138.2	2308.0	2384.5	2607.5	2790.4	2546.6
27.5°	2174.5	2139.5	2143.3	2116.1	2108.3	2108.3	2253.6	2298.9	2577.7	2773.5	2493.4
30°	2232.8	2249.7	2251.0	2210.8	2170.6	2098.0	2203.0	2247.1	2553.1	2794.3	2462.3
32.5°	2381.9	2374.2	2352.1	2344.3	2284.7	2203.0	2227.6	2257.5	2538.8	2840.9	2471.4
35°	2531.0	2527.2	2528.5	2524.6	2462.3	2341.7	2293.8	2334.0	2564.8	2922.6	2502.5
37.5°	2685.3	2695.7	2739.8	2739.8	2673.7	2542.7	2479.2	2467.5	2659.4	3056.2	2576.4
40°	2839.6	2865.6	2921.3	3009.5	2916.1	2794.3	2691.8	2673.7	2773.5	3235.1	2754.1
42.5°	2987.5	3030.3	3140.5	3271.4	3240.3	3118.4	2982.3	2961.5	3008.2	3500.9	3001.7
45°	3176.8	3213.1	3386.8	3587.8	3630.6	3523.0	3363.5	3346.6	3344.0	3889.9	3342.7
47.5°	3464.6	3503.5	3677.3	3879.6	4011.8	4028.7	3849.7	3831.6	3769.3	4415.1	3842.0
50°	3825.1	3888.6	4035.2	4271.1	4463.0	4643.3	4592.7	4539.5	4417.7	5025.8	4474.7
52.5°	4088.3	4166.1	4364.5	4666.6	5005.0	5291.6	5473.1	5473.1	5193.1	5696.1	5235.8
55°	4158.3	4205.0	4455.3	4892.2	5471.8	6196.7	6576.6	6548.0	6116.3	6401.5	6121.4
57.5°	3879.6	3940.5	4243.9	4701.6	5716.9	7043.4	7672.2	7678.7	7125.0	7221.0	6995.4
60°	3111.9	3131.4	3489.3	4101.3	5480.9	7725.4	9168.6	9193.2	8272.6	7951.0	7440.1
62.5°	2151.1	2213.4	2483.1	3019.9	4540.8	7648.9	10611.7	10733.6	9191.9	8336.1	7510.2
65°	1415.9	1453.5	1597.5	1924.2	3161.2	6629.7	11060.4	11436.4	9894.7	8358.2	7217.1
67.5°	1026.9	1033.4	1076.2	1244.8	1899.6	4767.8	10294.0	10824.4	10157.9	8174.0	6529.9
70°	829.9	835.0	850.6	958.2	1226.6	2983.6	8395.8	9226.9	9368.2	7301.4	5259.2
72.5°	674.3	680.7	700.2	801.3	1011.4	1659.7	6139.6	7152.3	7620.4	5401.8	3495.7
75°	530.3	535.5	582.2	682.0	950.4	1139.7	4072.8	5064.7	5128.2	3157.3	1636.4
77.5°	363.1	372.1	429.2	578.3	894.7	997.1	2538.8	3244.2	2911.0	1235.7	562.7
80°	230.8	243.8	277.5	438.3	791.0	951.7	1579.3	1937.2	1274.6	422.7	271.0
82.5°	136.1	149.1	182.8	284.0	621.1	883.0	1112.5	1212.4	597.8	216.5	163.4
85°	75.2	84.3	110.2	171.2	364.4	784.5	890.8	870.0	342.3	115.4	102.4
87.5°	24.6	28.5	40.2	68.7	150.4	369.5	534.2	501.8	177.6	53.2	40.2
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°	3169.0	3169.0	3169.0	3169.0	3169.0	3169.0	3169.0	3169.0	3169.0	3169.0	3169.0
2.5°	3166.4	3162.5	3104.2	3060.1	2984.9	2922.6	2898.0	2864.3	2863.0	2838.3	2831.9
5°	3089.9	3049.7	2960.2	2874.7	2741.1	2651.6	2569.9	2512.9	2489.6	2439.0	2427.3
7.5°	2991.4	2938.2	2800.7	2640.0	2483.1	2343.0	2216.0	2088.9	2017.6	1992.9	1965.7
10°	2888.9	2795.6	2592.0	2411.8	2192.6	1977.4	1777.7	1598.8	1501.5	1432.8	1403.0
12.5°	2807.2	2682.8	2423.4	2153.7	1864.6	1576.7	1344.6	1156.6	1046.4	994.5	971.2
15°	2715.2	2550.5	2239.3	1898.3	1537.8	1211.1	984.2	836.3	792.2	767.6	763.7
17.5°	2617.9	2427.3	2039.6	1646.7	1218.8	911.5	765.0	705.4	685.9	675.6	670.4
20°	2527.2	2317.1	1834.7	1366.7	954.3	731.3	662.6	631.5	630.2	635.4	634.1
22.5°	2398.8	2173.2	1632.5	1107.3	762.4	636.7	592.6	584.8	592.6	599.0	601.6
25°	2326.2	2055.2	1406.9	879.1	630.2	565.3	551.1	548.5	560.1	567.9	566.6
27.5°	2251.0	1933.3	1196.8	704.1	552.4	514.8	512.2	514.8	526.4	538.1	536.8
30°	2192.6	1836.0	999.7	588.7	492.7	478.5	475.9	478.5	484.9	486.2	486.2
32.5°	2144.6	1720.6	832.4	510.9	456.4	444.7	447.3	446.0	447.3	448.6	449.9
35°	2116.1	1651.9	695.0	462.9	426.6	417.5	416.2	412.3	413.6	414.9	413.6
37.5°	2177.1	1618.2	586.1	429.2	405.8	398.1	395.5	392.9	389.0	389.0	389.0
40°	2269.1	1600.1	520.0	407.1	390.3	381.2	373.4	370.8	370.8	372.1	373.4
42.5°	2452.0	1629.9	474.6	390.3	370.8	360.5	352.7	354.0	357.9	361.8	359.2
45°	2716.5	1720.6	453.8	377.3	359.2	344.9	339.7	338.4	342.3	348.8	354.0
47.5°	3062.7	1862.0	446.0	365.7	351.4	331.9	325.5	329.3	334.5	343.6	339.7
50°	3629.3	2179.7	452.5	355.3	339.7	325.5	317.7	313.8	317.7	324.2	326.8
52.5°	4369.7	2756.7	477.2	350.1	331.9	320.3	307.3	300.8	304.7	309.9	309.9
55°	5255.3	3545.0	545.9	343.6	319.0	312.5	298.2	285.3	287.9	287.9	286.6
57.5°	6035.9	4140.2	627.6	334.5	311.2	302.1	284.0	268.4	265.8	267.1	268.4
60°	6386.0	4298.4	666.5	331.9	311.2	289.2	264.5	249.0	245.1	242.5	242.5
62.5°	6325.0	4024.8	587.4	320.3	319.0	278.8	246.4	229.5	224.3	219.1	220.4
65°	5956.8	3634.5	462.9	304.7	320.3	272.3	228.2	211.4	202.3	195.8	194.5
67.5°	5283.8	3102.9	366.9	293.0	307.3	260.6	212.6	193.2	185.4	178.9	176.3
70°	4133.7	2432.5	319.0	277.5	276.2	232.1	194.5	177.6	166.0	158.2	158.2
72.5°	2680.2	1537.8	273.6	246.4	238.6	194.5	168.6	158.2	149.1	142.6	142.6
75°	1213.7	714.4	220.4	206.2	194.5	155.6	142.6	137.4	129.7	123.2	123.2
77.5°	435.7	304.7	164.7	162.1	145.2	120.6	115.4	111.5	106.3	99.8	99.8
80°	243.8	193.2	123.2	118.0	101.1	89.5	83.0	83.0	80.4	76.5	75.2
82.5°	154.3	125.8	90.8	79.1	66.1	59.6	57.1	55.8	54.5	49.3	48.0
85°	97.2	85.6	59.6	46.7	38.9	29.8	28.5	27.2	24.6	22.0	22.0
87.5°	44.1	49.3	23.3	14.3	10.4	6.5	3.9	1.3	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)