

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: P480572

Luminaire Tested: **IFLD-S-SA2D-760-U-SL3**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480572
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2D-760-U-SL3
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens
Light Source: (32) 5700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

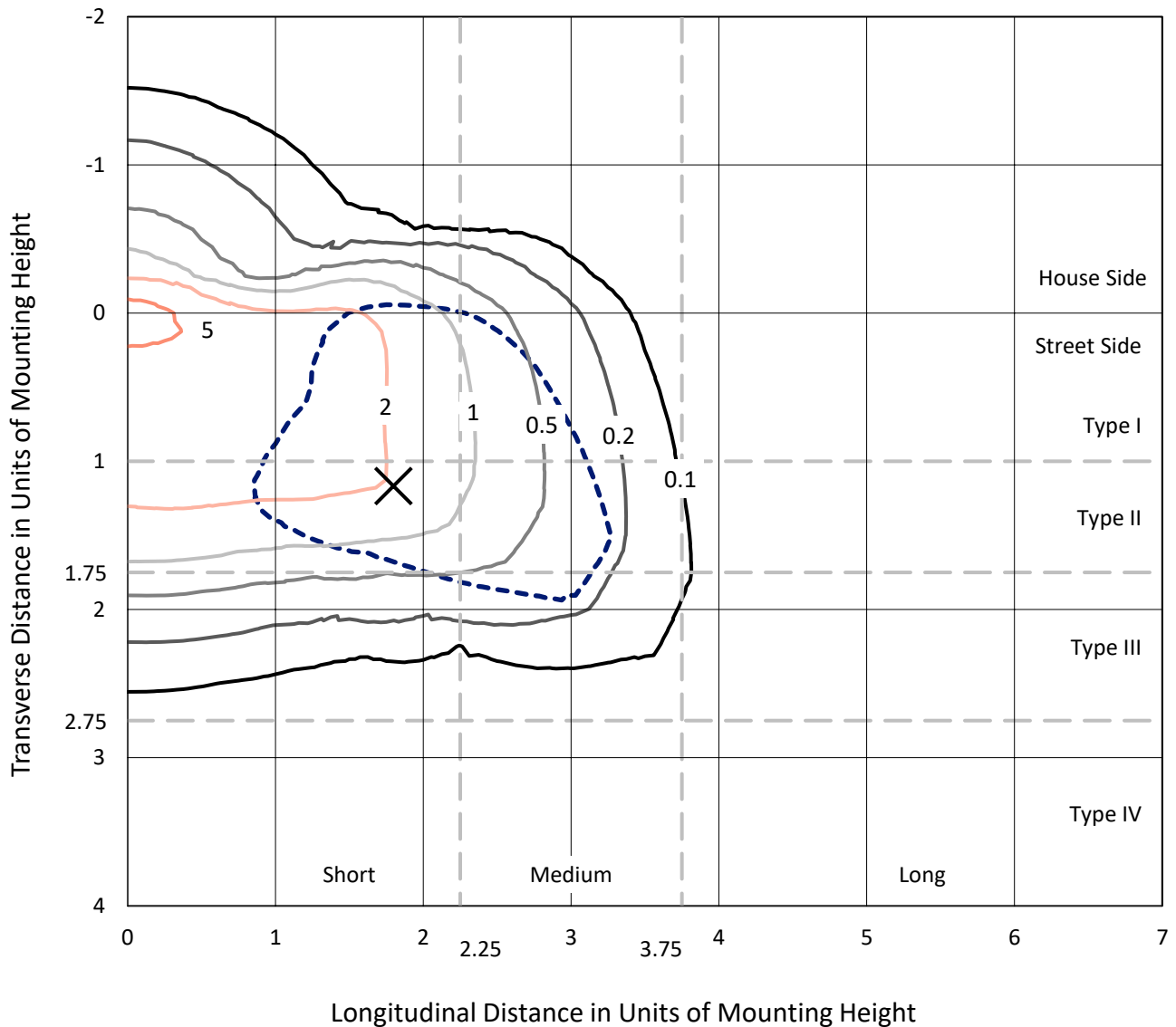
Lumens per Lamp: N/A
Luminaire Lumens: 15785.3 lumens
Efficiency: N/A
Efficacy: 127.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 123.9
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

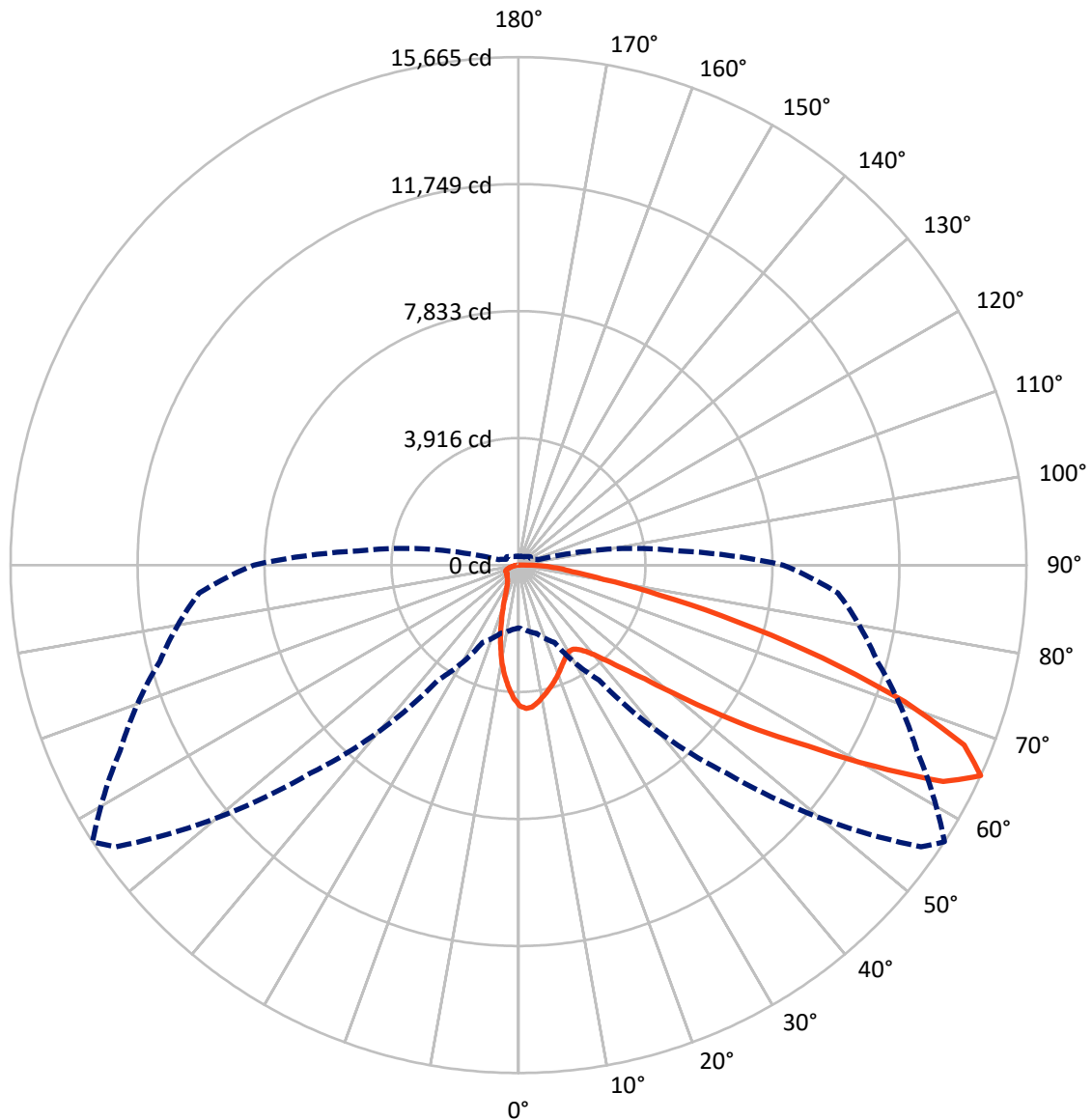
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.9 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	2420.8	0.0	2420.8
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	13364.5	0.0	13364.5
	% Fixture	84.7	0.0	84.7
Total	Lumens	15785.3	0.0	15785.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	363.5	2.3
10°-20°	782.3	5.0
20°-30°	1011.5	6.4
30°-40°	1361.1	8.6
40°-50°	2170.3	13.7
50°-60°	3833.3	24.3
60°-70°	4217.2	26.7
70°-80°	1764.1	11.2
80°-90°	281.9	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°	15785.3	100.0
0°-180°	15785.3	100.0

Coefficient of Utilization



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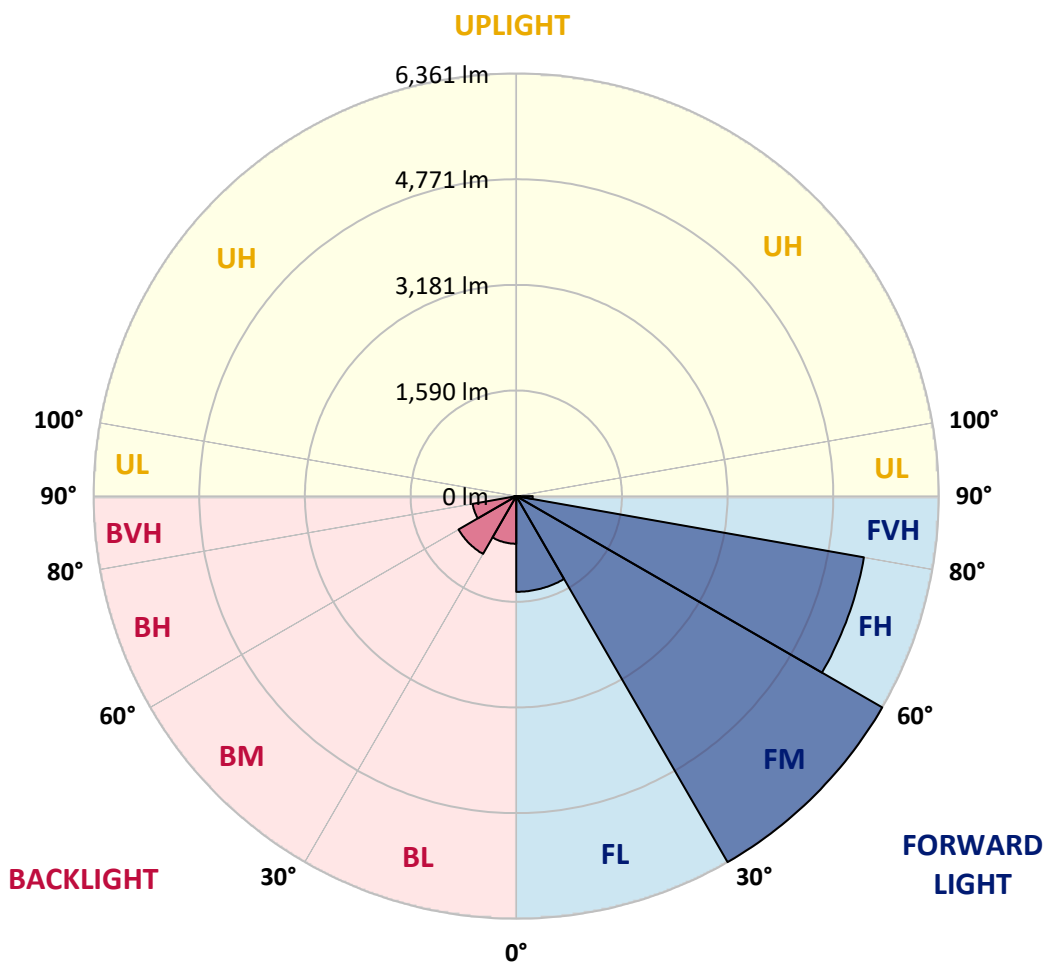
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1440.4	9.1			
FM (30°-60°)	6361.5	40.3			
FH (60°-80°)	5313.8	33.7			G3/7500
FVH (80°-90°)	248.9	1.6			G3/500
BL (0°-30°)	716.9	4.5	B2/1000		
BM (30°-60°)	1003.3	6.4	B2/2500		
BH (60°-80°)	667.5	4.2	B2/1000		G2/1000
BVH (80°-90°)	33.1	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-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	4340.7	4340.7	4340.7	4340.7	4340.7	4340.7	4340.7	4340.7	4340.7	4340.7	4340.7
2.5°	4458.0	4465.1	4465.1	4479.3	4431.3	4454.4	4450.9	4429.5	4436.6	4399.3	4362.1
5°	4331.9	4326.5	4354.9	4358.5	4395.8	4406.5	4415.3	4401.1	4404.7	4323.0	4287.5
7.5°	4008.6	4006.8	4054.8	4095.6	4173.8	4246.6	4294.6	4280.4	4299.9	4248.4	4164.9
10°	3625.0	3665.8	3715.6	3756.4	3900.3	3992.6	4117.0	4129.4	4204.0	4191.5	4040.6
12.5°	3337.3	3355.0	3392.3	3509.5	3641.0	3793.7	3971.3	3987.3	4060.1	4095.6	3964.2
15°	3101.0	3117.0	3165.0	3252.0	3399.4	3580.6	3806.1	3847.0	3992.6	4005.1	3864.7
17.5°	2928.8	2941.2	2973.2	3060.2	3181.0	3413.6	3626.8	3699.6	3891.4	3951.8	3761.7
20°	2861.3	2834.6	2852.4	2907.4	3028.2	3207.6	3482.9	3546.8	3791.9	3910.9	3664.1
22.5°	2831.1	2808.0	2818.6	2815.1	2911.0	3038.9	3328.4	3395.9	3697.8	3863.0	3577.0
25°	2854.2	2854.2	2843.5	2834.6	2845.3	2928.8	3161.4	3266.2	3571.7	3822.1	3488.2
27.5°	2978.5	2930.5	2935.9	2898.6	2887.9	2887.9	3086.8	3149.0	3530.8	3799.0	3415.4
30°	3058.4	3081.5	3083.3	3028.2	2973.2	2873.7	3017.6	3077.9	3497.1	3827.5	3372.8
32.5°	3262.7	3252.0	3221.8	3211.2	3129.5	3017.6	3051.3	3092.2	3477.6	3891.4	3385.2
35°	3466.9	3461.6	3463.4	3458.0	3372.8	3207.6	3141.9	3196.9	3513.1	4003.3	3427.8
37.5°	3678.3	3692.5	3752.9	3752.9	3662.3	3482.9	3395.9	3379.9	3642.7	4186.2	3529.1
40°	3889.6	3925.1	4001.5	4122.3	3994.4	3827.5	3687.1	3662.3	3799.0	4431.3	3772.4
42.5°	4092.1	4150.7	4301.7	4481.0	4438.4	4271.5	4085.0	4056.6	4120.5	4795.4	4111.6
45°	4351.4	4401.1	4639.1	4914.4	4973.0	4825.6	4607.1	4584.1	4580.5	5328.2	4578.7
47.5°	4745.7	4799.0	5037.0	5314.0	5495.2	5518.3	5273.2	5248.3	5163.1	6047.5	5262.5
50°	5239.4	5326.5	5527.2	5850.4	6113.3	6360.1	6290.9	6218.1	6051.1	6884.1	6129.2
52.5°	5600.0	5706.5	5978.3	6392.1	6855.7	7248.2	7496.8	7496.8	7113.2	7802.3	7171.8
55°	5695.9	5759.8	6102.6	6701.1	7495.1	8487.9	9008.3	8969.2	8377.8	8768.5	8384.9
57.5°	5314.0	5397.5	5813.1	6440.1	7830.7	9647.7	10509.1	10517.9	9759.6	9891.0	9581.9
60°	4262.6	4289.2	4779.4	5617.7	7507.5	10581.9	12558.7	12592.4	11331.4	10890.9	10191.1
62.5°	2946.5	3031.8	3401.2	4136.5	6219.8	10477.1	14535.4	14702.4	12590.6	11418.4	10287.1
65°	1939.5	1991.0	2188.1	2635.7	4330.1	9081.1	15150.0	15665.0	13553.3	11448.6	9885.7
67.5°	1406.7	1415.5	1474.1	1705.0	2602.0	6530.6	14100.3	14826.7	13913.8	11196.4	8944.3
70°	1136.7	1143.8	1165.1	1312.5	1680.2	4086.8	11500.1	12638.6	12832.2	10001.1	7203.8
72.5°	923.6	932.4	959.1	1097.6	1385.3	2273.4	8409.7	9796.9	10438.0	7399.1	4788.3
75°	726.4	733.5	797.5	934.2	1301.9	1561.2	5578.7	6937.4	7024.4	4324.8	2241.4
77.5°	497.3	509.7	587.9	792.1	1225.5	1365.8	3477.6	4443.8	3987.3	1692.6	770.8
80°	316.1	333.9	380.1	600.3	1083.4	1303.6	2163.3	2653.5	1745.9	579.0	371.2
82.5°	186.5	204.2	250.4	389.0	850.7	1209.5	1523.9	1660.6	818.8	296.6	223.8
85°	103.0	115.4	151.0	234.4	499.1	1074.5	1220.2	1191.7	468.9	158.1	140.3
87.5°	33.7	39.1	55.1	94.1	206.0	506.2	731.7	687.3	243.3	72.8	55.1
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°	4340.7	4340.7	4340.7	4340.7	4340.7	4340.7	4340.7	4340.7	4340.7	4340.7	4340.7
2.5°	4337.2	4331.9	4251.9	4191.5	4088.5	4003.3	3969.5	3923.4	3921.6	3887.8	3879.0
5°	4232.4	4177.3	4054.8	3937.6	3754.6	3632.1	3520.2	3442.0	3410.1	3340.8	3324.8
7.5°	4097.4	4024.6	3836.3	3616.1	3401.2	3209.4	3035.3	2861.3	2763.6	2729.8	2692.5
10°	3957.1	3829.2	3550.4	3303.5	3003.3	2708.5	2435.0	2189.9	2056.7	1962.6	1921.7
12.5°	3845.2	3674.7	3319.5	2950.1	2554.0	2159.7	1841.8	1584.3	1433.3	1362.3	1330.3
15°	3719.1	3493.5	3067.3	2600.2	2106.4	1658.9	1348.0	1145.6	1085.2	1051.4	1046.1
17.5°	3585.9	3324.8	2793.8	2255.6	1669.5	1248.6	1047.9	966.2	939.5	925.3	918.2
20°	3461.6	3173.9	2513.2	1872.0	1307.2	1001.7	907.6	865.0	863.2	870.3	868.5
22.5°	3285.7	2976.7	2236.1	1516.8	1044.3	872.1	811.7	801.0	811.7	820.5	824.1
25°	3186.3	2815.1	1927.0	1204.2	863.2	774.4	754.8	751.3	767.3	777.9	776.1
27.5°	3083.3	2648.1	1639.3	964.4	756.6	705.1	701.6	705.1	721.1	737.1	735.3
30°	3003.3	2514.9	1369.4	806.3	674.9	655.4	651.8	655.4	664.3	666.0	666.0
32.5°	2937.6	2356.9	1140.2	699.8	625.2	609.2	612.7	611.0	612.7	614.5	616.3
35°	2898.6	2262.7	952.0	634.1	584.3	571.9	570.1	564.8	566.6	568.3	566.6
37.5°	2982.0	2216.5	802.8	587.9	555.9	545.3	541.7	538.2	532.8	532.8	532.8
40°	3108.1	2191.7	712.2	557.7	534.6	522.2	511.5	508.0	508.0	509.7	511.5
42.5°	3358.6	2232.5	650.0	534.6	508.0	493.8	483.1	484.9	490.2	495.5	492.0
45°	3720.9	2356.9	621.6	516.8	492.0	472.4	465.3	463.6	468.9	477.8	484.9
47.5°	4195.1	2550.4	611.0	500.9	481.3	454.7	445.8	451.1	458.2	470.7	465.3
50°	4971.2	2985.6	619.9	486.6	465.3	445.8	435.1	429.8	435.1	444.0	447.6
52.5°	5985.4	3775.9	653.6	479.5	454.7	438.7	420.9	412.1	417.4	424.5	424.5
55°	7198.4	4855.8	747.7	470.7	436.9	428.0	408.5	390.7	394.3	394.3	392.5
57.5°	8267.6	5671.0	859.6	458.2	426.3	413.8	389.0	367.6	364.1	365.9	367.6
60°	8747.2	5887.7	912.9	454.7	426.3	396.1	362.3	341.0	335.7	332.1	332.1
62.5°	8663.7	5512.9	804.6	438.7	436.9	381.9	337.5	314.4	307.3	300.2	301.9
65°	8159.3	4978.4	634.1	417.4	438.7	373.0	312.6	289.5	277.1	268.2	266.4
67.5°	7237.5	4250.2	502.6	401.4	420.9	357.0	291.3	264.6	254.0	245.1	241.5
70°	5662.1	3331.9	436.9	380.1	378.3	317.9	266.4	243.3	227.3	216.7	216.7
72.5°	3671.2	2106.4	374.8	337.5	326.8	266.4	230.9	216.7	204.2	195.4	195.4
75°	1662.4	978.6	301.9	282.4	266.4	213.1	195.4	188.3	177.6	168.7	168.7
77.5°	596.8	417.4	225.6	222.0	198.9	165.2	158.1	152.7	145.6	136.8	136.8
80°	333.9	264.6	168.7	161.6	138.5	122.5	113.7	113.7	110.1	104.8	103.0
82.5°	211.4	172.3	124.3	108.3	90.6	81.7	78.1	76.4	74.6	67.5	65.7
85°	133.2	117.2	81.7	63.9	53.3	40.8	39.1	37.3	33.7	30.2	30.2
87.5°	60.4	67.5	32.0	19.5	14.2	8.9	5.3	1.8	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)