

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: P476830

Luminaire Tested: **IFLD-S-SA3A-722-U-T2R**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P476830
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3A-722-U-T2R
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens
Light Source: (48) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

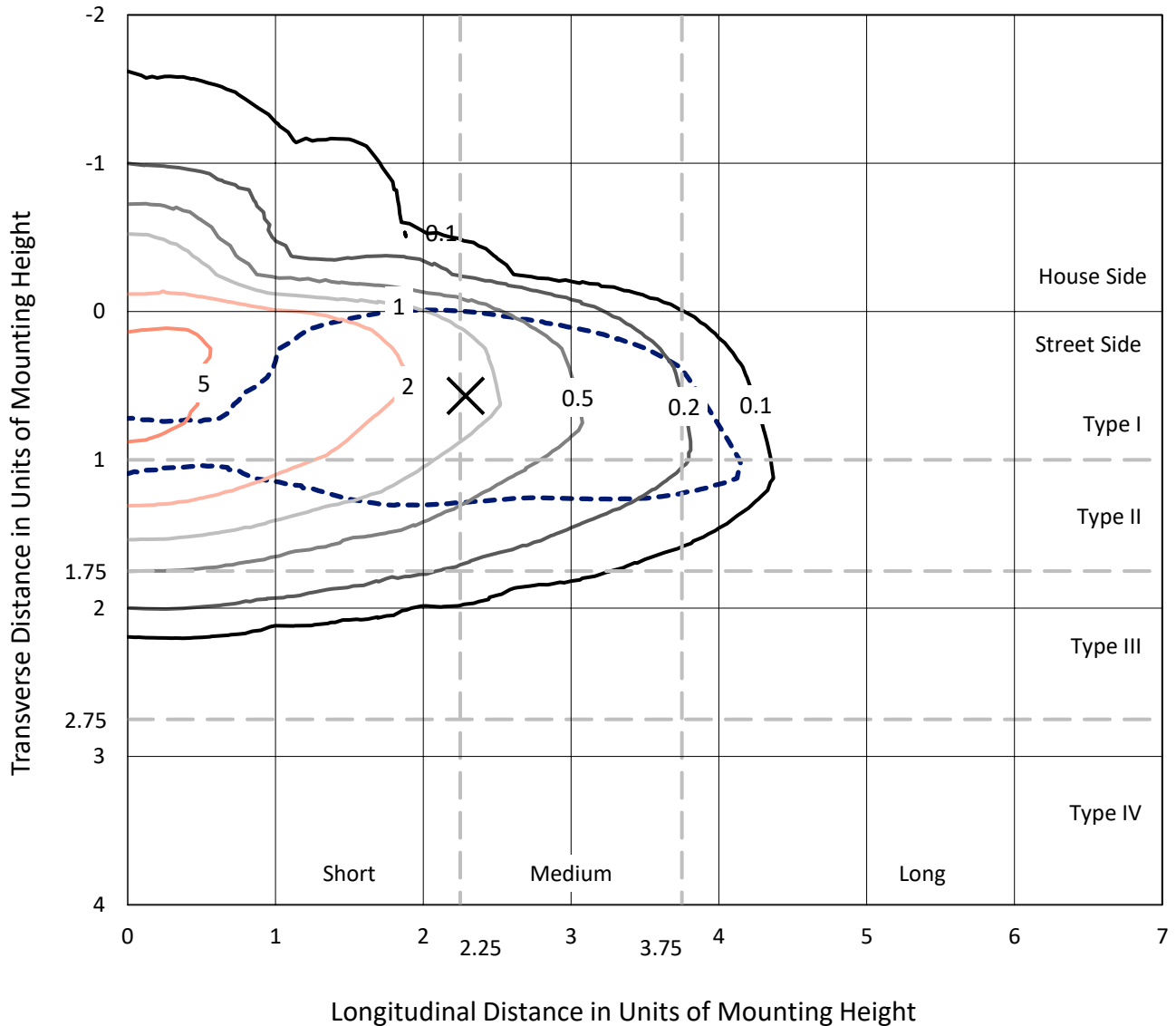
Lumens per Lamp: N/A
Luminaire Lumens: 10191.5 lumens
Efficiency: N/A
Efficacy: 107.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

Input Watts (W): 94.8
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

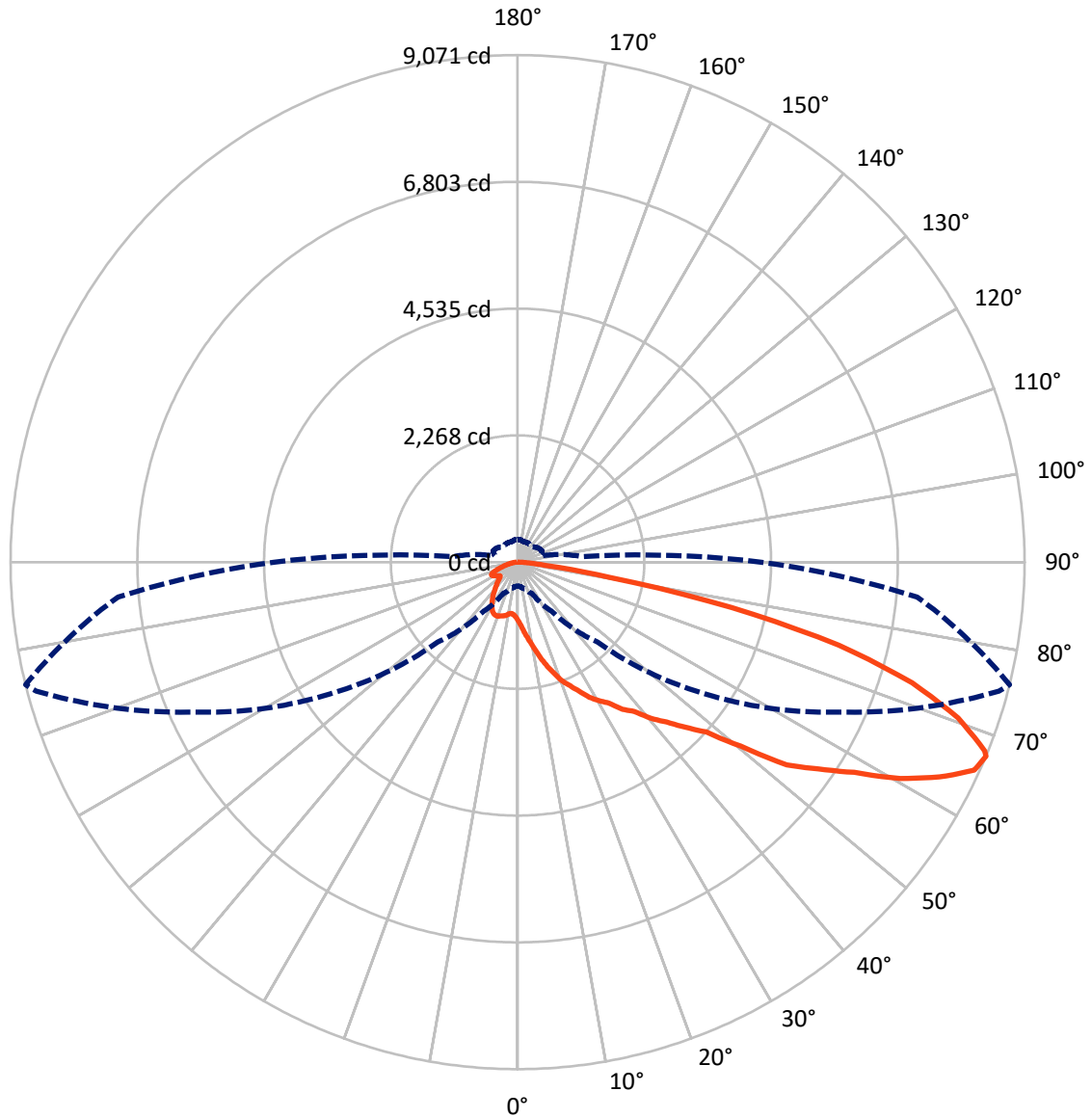
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6.1 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1449.9	0.0	1449.9
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	8741.6	0.0	8741.6
	% Fixture	85.8	0.0	85.8
Total	Lumens	10191.5	0.0	10191.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	120.8	1.2
10°-20°	453.1	4.4
20°-30°	842.4	8.3
30°-40°	1335.4	13.1
40°-50°	1846.9	18.1
50°-60°	2271.8	22.3
60°-70°	2114.0	20.7
70°-80°	1060.8	10.4
80°-90°	146.3	1.4
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°	10191.5	100.0
0°-180°	10191.5	100.0

Coefficient of Utilization

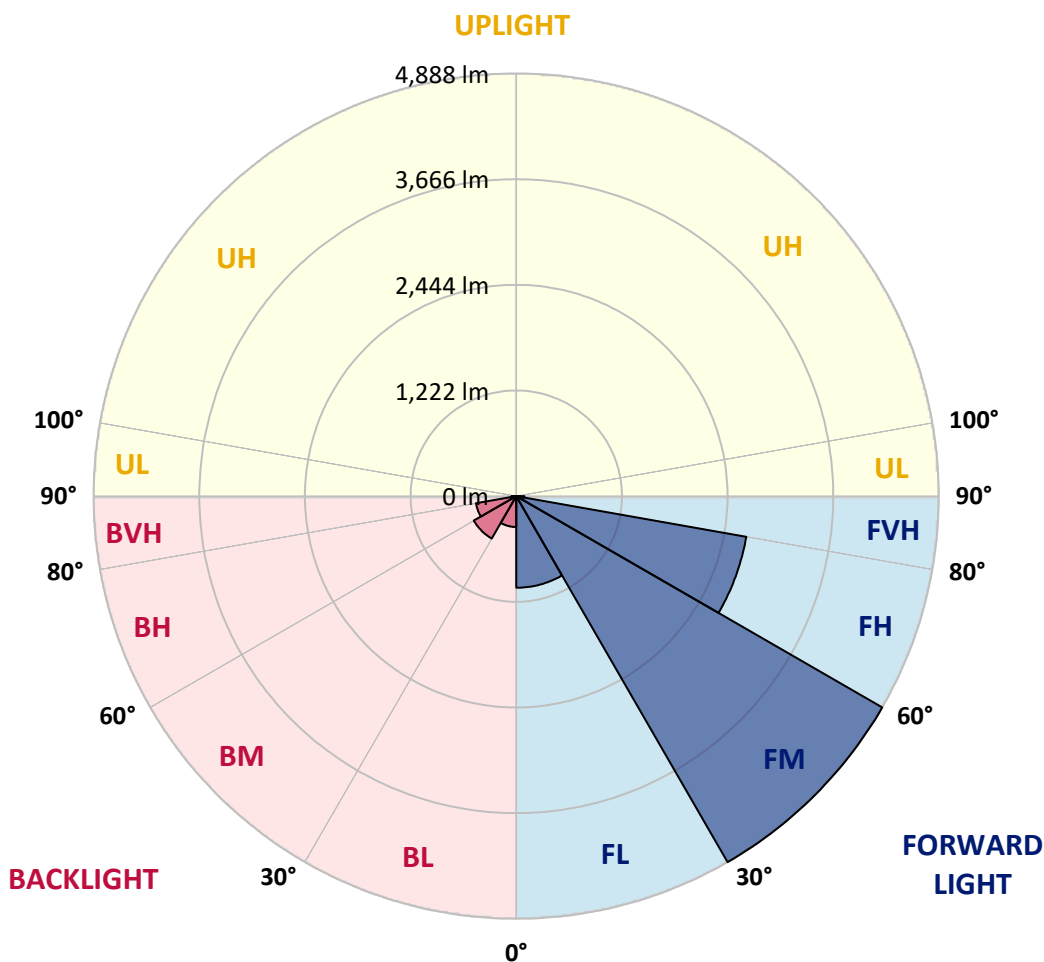


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1059.2	10.4			
FM (30°-60°)	4887.5	48.0			
FH (60°-80°)	2701.7	26.5			G2/5000
FVH (80°-90°)	93.2	0.9			G1/100
BL (0°-30°)	357.0	3.5	B1/500		
BM (30°-60°)	566.6	5.6	B1/1000		
BH (60°-80°)	473.2	4.6	B1/500		G1/500
BVH (80°-90°)	53.1	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2
 Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1042.9	1042.9	1042.9	1042.9	1042.9	1042.9	1042.9	1042.9	1042.9	1042.9	1042.9
2.5°	1447.1	1429.7	1412.3	1375.1	1362.3	1327.5	1263.6	1192.8	1134.7	1126.6	1085.9
5°	1795.5	1770.0	1764.2	1743.3	1677.1	1609.7	1505.2	1391.4	1249.7	1260.1	1120.8
7.5°	2056.9	2041.8	2010.4	1990.7	1951.2	1861.7	1753.7	1602.7	1422.7	1387.9	1198.6
10°	2254.3	2233.4	2232.2	2214.8	2193.9	2102.1	2019.7	1816.4	1585.3	1537.7	1293.8
12.5°	2354.2	2350.7	2412.2	2412.2	2404.1	2365.8	2224.1	2038.3	1739.8	1723.5	1404.1
15°	2462.2	2433.1	2486.6	2527.2	2548.1	2567.9	2450.6	2254.3	1937.2	1905.9	1522.6
17.5°	2462.2	2459.9	2513.3	2580.6	2689.8	2715.4	2651.5	2452.9	2101.0	2077.8	1652.7
20°	2420.4	2454.1	2491.2	2581.8	2700.3	2803.6	2822.2	2656.1	2282.2	2263.6	1800.2
22.5°	2615.5	2583.0	2621.3	2656.1	2747.9	2904.7	2955.8	2835.0	2472.6	2401.8	1933.7
25°	2943.0	2920.9	2893.1	2842.0	2880.3	2948.8	3026.6	2967.4	2635.2	2556.3	2062.7
27.5°	3262.4	3263.6	3203.2	3091.7	3009.2	3023.1	3114.9	3083.5	2772.3	2737.4	2150.9
30°	3716.5	3688.6	3621.3	3470.3	3308.8	3176.4	3161.3	3191.5	2946.5	2879.1	2277.5
32.5°	4056.8	4062.6	3967.4	3750.2	3529.5	3421.5	3289.1	3301.9	3056.8	3006.9	2378.6
35°	4332.0	4325.1	4257.7	4077.7	3816.4	3686.3	3507.4	3434.3	3313.5	3234.5	2533.0
37.5°	4629.4	4572.5	4463.3	4260.0	4092.8	3912.8	3738.6	3573.6	3484.2	3389.0	2665.4
40°	4749.0	4749.0	4602.7	4509.7	4311.1	4175.3	4062.6	3757.1	3692.1	3673.5	2835.0
42.5°	4664.2	4716.5	4656.1	4550.4	4469.1	4297.2	4267.0	3947.6	3948.8	3911.6	3038.2
45°	4656.1	4584.1	4534.1	4560.8	4522.5	4513.2	4589.9	4211.3	4218.2	4213.6	3311.2
47.5°	4422.6	4390.1	4464.4	4508.6	4539.9	4684.0	4904.6	4526.0	4575.9	4541.1	3625.9
50°	4190.4	4184.5	4231.0	4391.3	4527.2	4764.1	5204.3	5011.5	5175.2	5172.9	4196.2
52.5°	3553.9	3615.5	3797.8	4136.9	4472.6	4873.3	5430.7	5631.7	5944.1	6028.9	4668.9
55°	2945.3	2912.8	3182.3	3674.7	4234.5	4916.2	5683.9	6004.5	6464.4	6525.9	5154.3
57.5°	2291.5	2351.8	2564.4	3037.1	3742.1	4703.7	5869.7	6372.6	7052.1	7099.7	5717.6
60°	1709.6	1717.7	1951.2	2332.1	3087.0	4224.0	5930.1	6750.1	7725.7	7861.6	6307.6
62.5°	1075.5	1124.2	1301.9	1677.1	2324.0	3552.7	5659.5	6978.9	8431.8	8467.8	6902.2
65°	579.5	610.9	744.5	980.2	1623.6	2687.5	4941.8	6841.8	8764.0	8977.7	7167.0
67°	428.6	434.4	495.9	626.0	1085.9	2023.2	4120.7	6345.9	8915.0	9070.6	7177.5
67.5°	401.8	410.0	458.8	562.1	962.8	1862.9	3905.8	6169.4	8847.6	9014.8	7096.2
70°	343.8	346.1	357.7	386.7	540.1	1120.8	2659.6	5055.6	8200.7	8361.0	6525.9
72.5°	305.4	307.8	312.4	318.2	365.8	648.1	1617.8	3890.7	7127.6	7383.1	5630.5
75°	268.3	276.4	278.7	274.1	311.3	421.6	860.6	2859.4	5814.0	5938.3	4378.5
77.5°	227.6	231.1	235.8	240.4	277.6	314.7	413.5	1930.3	3990.6	3915.1	2368.1
80°	191.6	192.8	196.3	199.8	240.4	240.4	234.6	1042.9	1743.3	1666.6	800.2
82.5°	137.0	145.2	153.3	162.6	199.8	161.4	153.3	464.6	551.7	525.0	270.6
85°	53.4	65.0	101.0	111.5	126.6	87.1	102.2	200.9	230.0	227.6	101.0
87.5°	9.3	10.5	27.9	43.0	46.5	30.2	48.8	72.0	85.9	92.9	37.2
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°	1042.9	1042.9	1042.9	1042.9	1042.9	1042.9	1042.9	1042.9	1042.9	1042.9	1042.9
2.5°	1052.2	1016.2	973.3	930.3	902.4	858.3	854.8	828.1	824.6	815.3	820.0
5°	1060.4	1017.4	930.3	861.8	830.4	804.9	810.7	799.0	795.6	789.8	780.5
7.5°	1124.2	1039.5	909.4	850.1	826.9	815.3	815.3	801.4	790.9	797.9	804.9
10°	1166.1	1049.9	925.6	866.4	847.8	822.3	831.6	814.1	820.0	806.0	806.0
12.5°	1233.4	1109.1	959.3	890.8	860.6	837.4	846.7	826.9	822.3	823.4	820.0
15°	1324.0	1148.6	974.4	904.7	883.8	854.8	847.8	830.4	813.0	807.2	814.1
17.5°	1408.8	1197.4	984.9	912.9	879.2	846.7	838.5	816.5	810.7	793.2	779.3
20°	1509.8	1255.5	998.8	919.8	861.8	829.2	808.3	786.3	766.5	756.1	760.7
22.5°	1577.2	1285.7	1005.8	905.9	836.2	806.0	761.9	746.8	718.9	707.3	698.0
25°	1687.5	1322.8	988.4	867.6	790.9	742.1	702.7	681.7	662.0	646.9	642.3
27.5°	1715.4	1350.7	947.7	802.5	718.9	667.8	634.1	608.6	595.8	572.6	567.9
30°	1796.7	1322.8	887.3	723.6	650.4	598.1	564.4	545.9	515.7	509.9	497.1
32.5°	1849.0	1331.0	810.7	646.9	571.4	525.0	502.9	484.3	476.2	448.3	441.3
35°	1936.1	1303.1	732.8	576.1	506.4	470.4	451.8	446.0	419.3	406.5	394.9
37.5°	1991.8	1286.8	655.0	495.9	435.5	420.4	426.2	401.8	369.3	344.9	336.8
40°	2089.4	1281.0	566.8	429.7	386.7	383.3	401.8	355.4	296.2	275.3	263.6
42.5°	2229.9	1241.5	498.2	370.5	348.4	363.5	367.0	296.2	262.5	245.1	236.9
45°	2364.6	1249.7	430.9	306.6	303.1	325.2	317.1	250.9	231.1	218.3	225.3
47.5°	2623.6	1290.3	364.7	255.5	272.9	293.8	246.2	224.2	205.6	196.3	197.4
50°	3024.3	1329.8	306.6	233.4	257.8	266.0	211.4	203.2	202.1	183.5	182.3
52.5°	3264.7	1314.7	296.2	261.3	276.4	266.0	230.0	224.2	214.9	206.7	197.4
55°	3646.8	1358.8	318.2	305.4	313.6	255.5	257.8	255.5	248.5	227.6	233.4
57.5°	3951.1	1387.9	347.3	341.5	336.8	266.0	269.4	270.6	266.0	256.7	264.8
60°	4369.2	1446.0	377.5	378.6	379.8	289.2	295.0	302.0	300.8	297.3	299.6
62.5°	4625.9	1419.2	411.1	429.7	423.9	336.8	335.6	340.3	340.3	346.1	349.6
65°	4587.6	1320.5	428.6	475.0	444.8	371.7	371.7	374.0	375.1	386.7	387.9
67°	4357.6	1144.0	419.3	482.0	444.8	385.6	385.6	387.9	379.8	410.0	400.7
67.5°	4250.7	1091.7	411.1	476.2	441.3	384.4	384.4	385.6	378.6	407.7	398.4
70°	3696.8	810.7	354.2	421.6	408.8	374.0	374.0	367.0	361.2	399.5	391.4
72.5°	3155.5	588.8	284.5	358.9	369.3	360.0	362.4	344.9	328.7	355.4	348.4
75°	2416.9	433.2	221.8	276.4	312.4	336.8	351.9	307.8	286.9	293.8	281.1
77.5°	1348.4	282.2	175.4	204.4	238.1	313.6	338.0	277.6	234.6	226.5	226.5
80°	457.6	164.9	128.9	152.1	163.8	277.6	315.9	225.3	184.7	176.5	170.7
82.5°	173.0	101.0	88.3	104.5	104.5	219.5	257.8	173.0	139.4	180.0	183.5
85°	79.0	60.4	58.1	60.4	60.4	134.7	182.3	112.7	125.4	108.0	95.2
87.5°	31.4	29.0	26.7	25.6	20.9	23.2	62.7	30.2	56.9	15.1	13.9
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)