

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: P476908

Luminaire Tested: **IFLD-S-SA3A-730-U-T2R**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P476908
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3A-730-U-T2R
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens
Light Source: (48) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

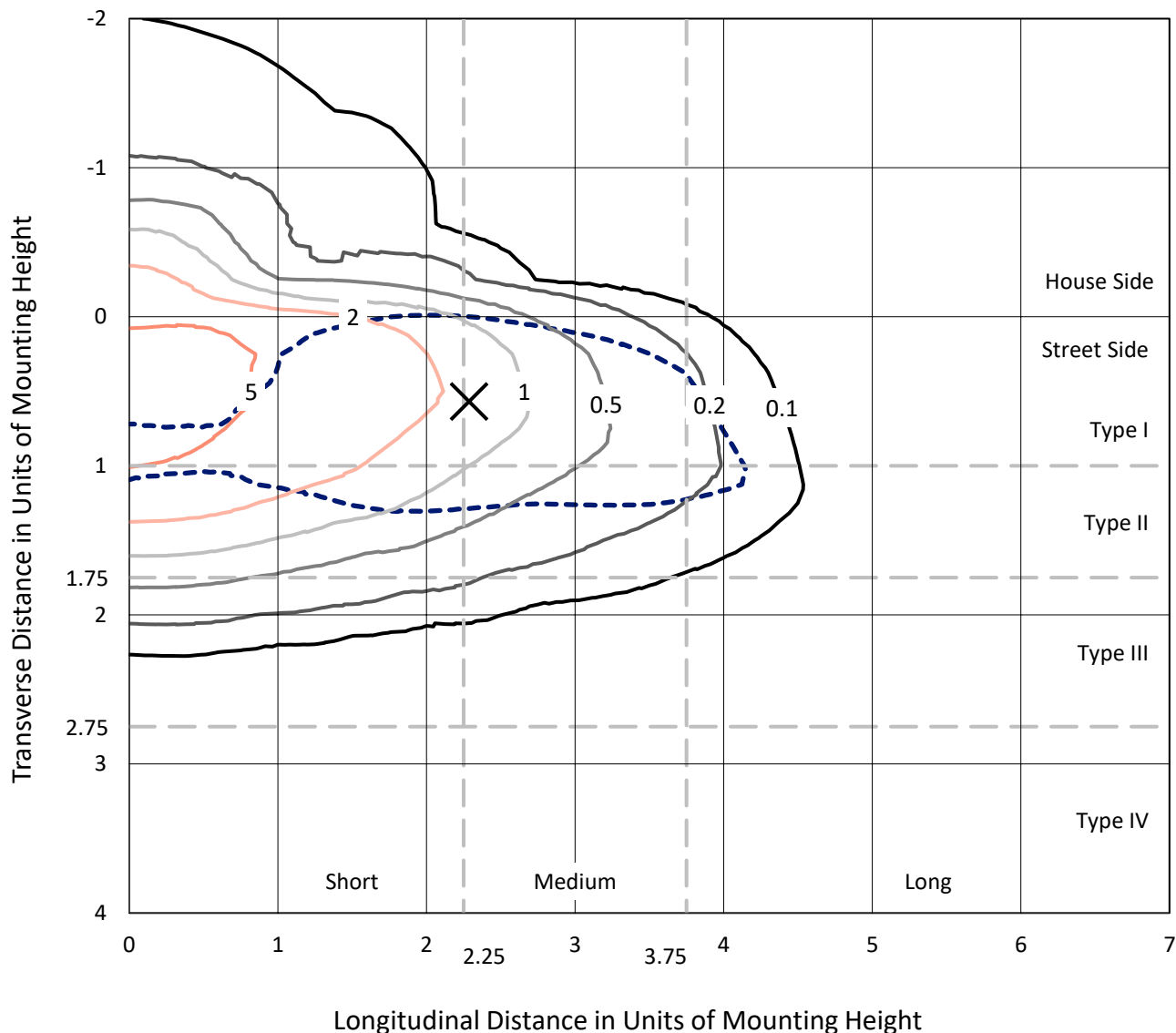
Lumens per Lamp: N/A
Luminaire Lumens: 12598.9 lumens
Efficiency: N/A
Efficacy: 132.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

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

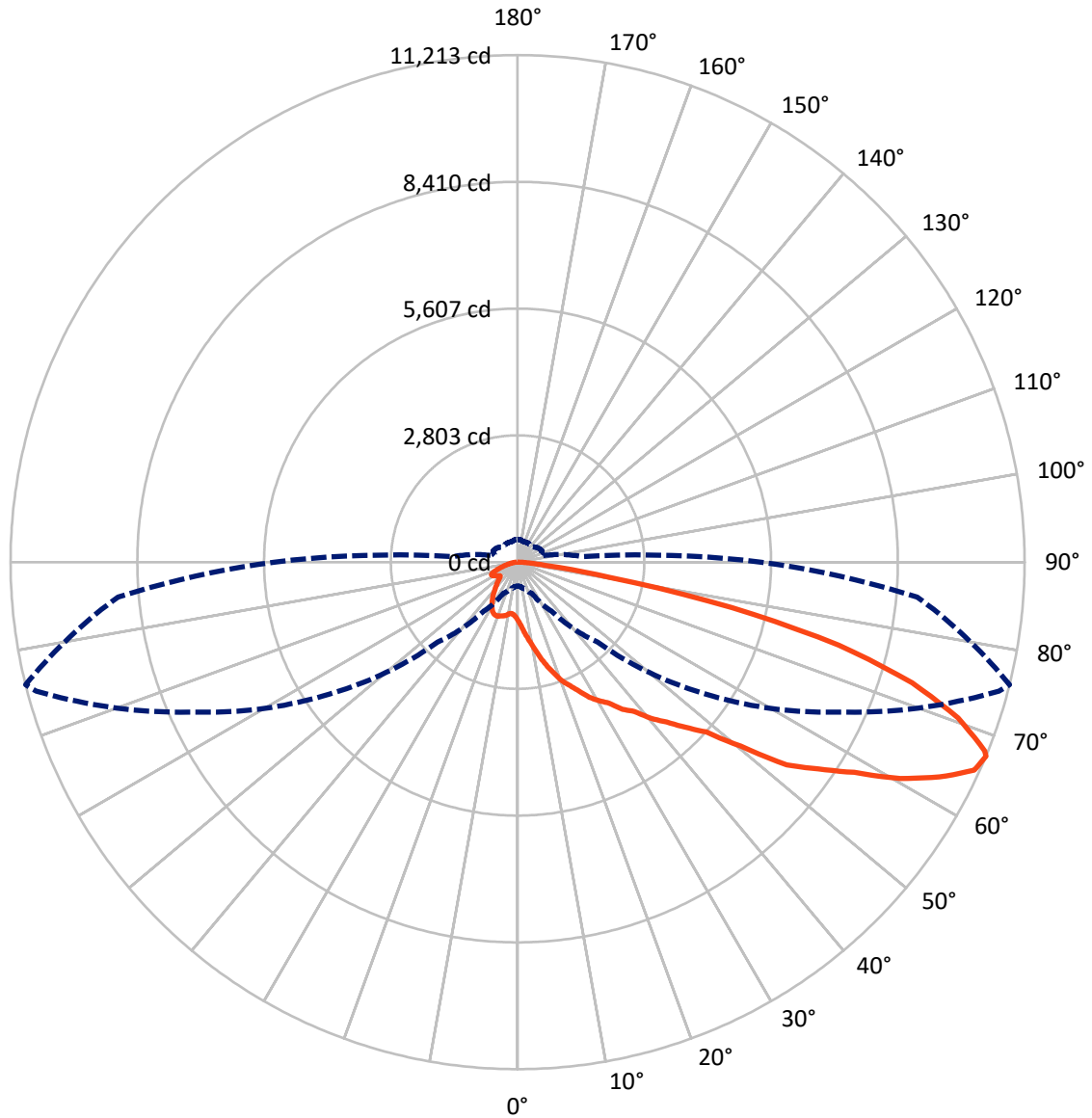
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 7.5 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	1792.3	0.0	1792.3
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	10806.6	0.0	10806.6
	% Fixture	85.8	0.0	85.8
Total	Lumens	12598.9	0.0	12598.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	149.3	1.2
10°-20°	560.1	4.4
20°-30°	1041.4	8.3
30°-40°	1650.8	13.1
40°-50°	2283.2	18.1
50°-60°	2808.5	22.3
60°-70°	2613.4	20.7
70°-80°	1311.4	10.4
80°-90°	180.8	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°	12598.9	100.0
0°-180°	12598.9	100.0



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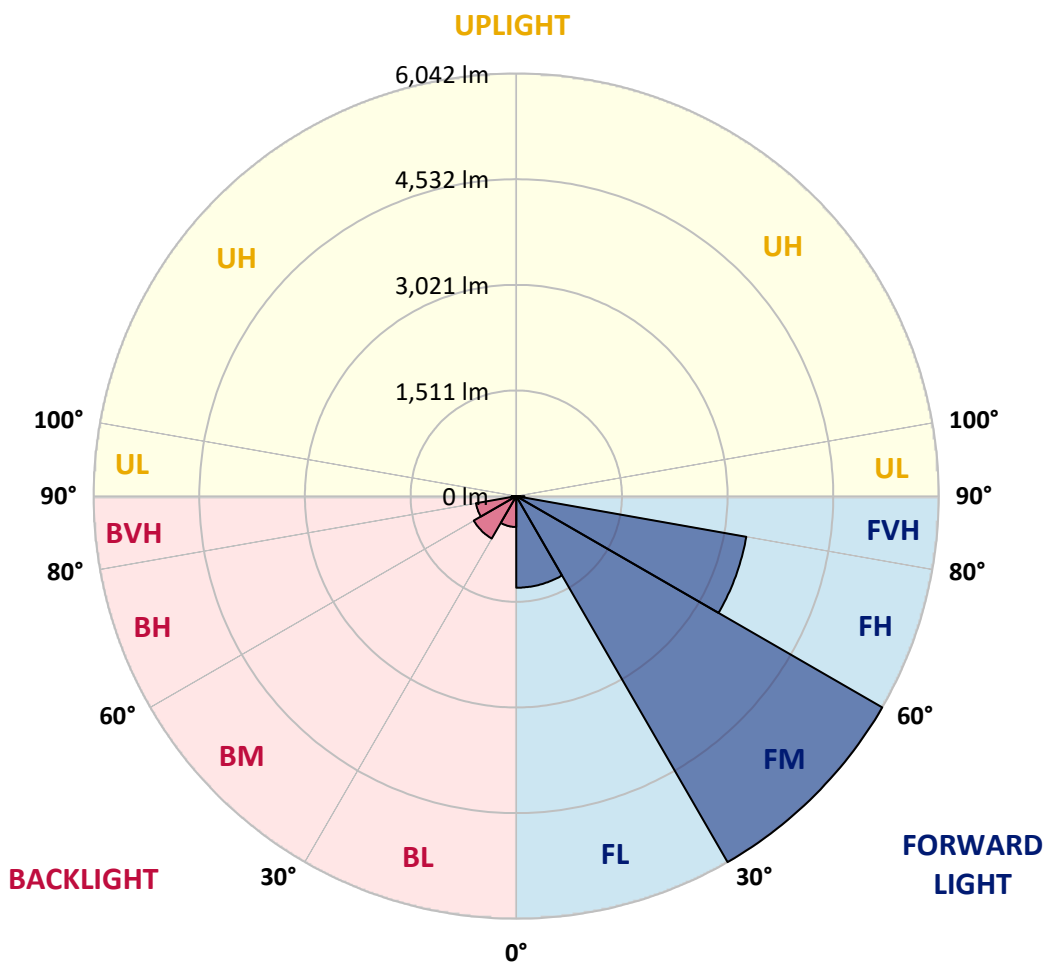
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1309.5	10.4			
FM (30°-60°)	6042.0	48.0			
FH (60°-80°)	3339.9	26.5			G2/5000
FVH (80°-90°)	115.2	0.9			G2/225
BL (0°-30°)	441.4	3.5	B1/500		
BM (30°-60°)	700.4	5.6	B1/1000		
BH (60°-80°)	584.9	4.6	B2/1000		G2/1000
BVH (80°-90°)	65.6	0.5			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 II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1289.3	1289.3	1289.3	1289.3	1289.3	1289.3	1289.3	1289.3	1289.3	1289.3	1289.3
2.5°	1788.9	1767.4	1745.9	1699.9	1684.1	1641.1	1562.1	1474.5	1402.7	1392.7	1342.4
5°	2219.7	2188.1	2180.9	2155.1	2073.2	1990.0	1860.7	1720.0	1544.9	1557.8	1385.5
7.5°	2542.7	2524.1	2485.3	2460.9	2412.1	2301.5	2168.0	1981.3	1758.8	1715.7	1481.7
10°	2786.8	2761.0	2759.5	2738.0	2712.1	2598.7	2496.8	2245.5	1959.8	1900.9	1599.4
12.5°	2910.3	2906.0	2982.1	2982.1	2972.0	2924.6	2749.5	2519.7	2150.8	2130.7	1735.8
15°	3043.8	3007.9	3074.0	3124.2	3150.0	3174.5	3029.4	2786.8	2394.8	2356.1	1882.3
17.5°	3043.8	3040.9	3107.0	3190.2	3325.2	3356.8	3277.8	3032.3	2597.3	2568.6	2043.1
20°	2992.1	3033.7	3079.7	3191.7	3338.1	3465.9	3488.9	3283.6	2821.3	2798.3	2225.4
22.5°	3233.3	3193.1	3240.5	3283.6	3397.0	3590.8	3654.0	3504.7	3056.7	2969.1	2390.5
25°	3638.2	3610.9	3576.5	3513.3	3560.7	3645.4	3741.6	3668.4	3257.7	3160.1	2549.9
27.5°	4033.0	4034.5	3959.8	3822.0	3720.0	3737.3	3850.7	3811.9	3427.1	3384.1	2659.0
30°	4594.4	4560.0	4476.7	4290.0	4090.5	3926.8	3908.1	3945.5	3642.5	3559.2	2815.5
32.5°	5015.1	5022.3	4904.5	4636.1	4363.3	4229.7	4066.1	4081.8	3778.9	3717.2	2940.4
35°	5355.4	5346.7	5263.5	5040.9	4717.9	4557.1	4336.0	4245.5	4096.2	3998.6	3131.4
37.5°	5722.9	5652.6	5517.6	5266.3	5059.6	4837.1	4621.7	4417.8	4307.3	4189.5	3295.1
40°	5870.8	5870.8	5689.9	5575.0	5329.5	5161.5	5022.3	4644.7	4564.3	4541.3	3504.7
42.5°	5766.0	5830.6	5755.9	5625.3	5524.8	5312.3	5275.0	4880.1	4881.6	4835.6	3755.9
45°	5755.9	5666.9	5605.2	5638.2	5590.8	5579.3	5674.1	5206.0	5214.7	5208.9	4093.3
47.5°	5467.4	5427.2	5519.0	5573.6	5612.4	5790.4	6063.2	5595.1	5656.9	5613.8	4482.4
50°	5180.2	5173.0	5230.5	5428.6	5596.6	5889.5	6433.6	6195.3	6397.7	6394.9	5187.4
52.5°	4393.4	4469.5	4694.9	5114.2	5529.1	6024.4	6713.6	6962.0	7348.2	7453.0	5771.7
55°	3641.1	3600.9	3934.0	4542.7	5234.8	6077.5	7026.6	7422.9	7991.4	8067.5	6371.9
57.5°	2832.7	2907.4	3170.1	3754.5	4626.0	5814.8	7256.3	7878.0	8717.9	8776.8	7068.2
60°	2113.4	2123.5	2412.1	2883.0	3816.2	5221.8	7331.0	8344.6	9550.6	9718.6	7797.6
62.5°	1329.5	1389.8	1609.5	2073.2	2872.9	4392.0	6996.4	8627.4	10423.6	10468.1	8532.7
65°	716.4	755.2	920.3	1211.8	2007.2	3322.3	6109.1	8458.0	10834.2	11098.4	8860.0
67°	529.8	537.0	613.1	773.9	1342.4	2501.1	5094.1	7845.0	11020.9	11213.2	8873.0
67.5°	496.8	506.8	567.1	694.9	1190.2	2303.0	4828.4	7626.7	10937.6	11144.3	8772.5
70°	425.0	427.9	442.2	478.1	667.6	1385.5	3287.9	6249.8	10137.9	10336.0	8067.5
72.5°	377.6	380.5	386.2	393.4	452.3	801.2	2000.0	4809.8	8811.2	9127.1	6960.5
75°	331.7	341.7	344.6	338.8	384.8	521.2	1063.9	3534.8	7187.4	7341.0	5412.8
77.5°	281.4	285.7	291.5	297.2	343.1	389.1	511.1	2386.2	4933.3	4839.9	2927.5
80°	236.9	238.3	242.6	246.9	297.2	297.2	290.0	1289.3	2155.1	2060.3	989.2
82.5°	169.4	179.5	189.5	201.0	246.9	199.6	189.5	574.3	682.0	649.0	334.5
85°	66.0	80.4	124.9	137.8	156.5	107.7	126.3	248.4	284.3	281.4	124.9
87.5°	11.5	12.9	34.5	53.1	57.4	37.3	60.3	89.0	106.2	114.9	45.9
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°	1289.3	1289.3	1289.3	1289.3	1289.3	1289.3	1289.3	1289.3	1289.3	1289.3	1289.3
2.5°	1300.8	1256.3	1203.2	1150.0	1115.6	1061.0	1056.7	1023.7	1019.4	1007.9	1013.6
5°	1310.8	1257.7	1150.0	1065.3	1026.6	995.0	1002.2	987.8	983.5	976.3	964.8
7.5°	1389.8	1285.0	1124.2	1051.0	1022.3	1007.9	1007.9	990.7	977.7	986.4	995.0
10°	1441.5	1297.9	1144.3	1071.1	1048.1	1016.5	1028.0	1006.5	1013.6	996.4	996.4
12.5°	1524.8	1371.1	1185.9	1101.2	1063.9	1035.2	1046.7	1022.3	1016.5	1017.9	1013.6
15°	1636.8	1420.0	1204.6	1118.5	1092.6	1056.7	1048.1	1026.6	1005.0	997.8	1006.5
17.5°	1741.6	1480.3	1217.5	1128.5	1086.9	1046.7	1036.6	1009.3	1002.2	980.6	963.4
20°	1866.5	1552.1	1234.7	1137.1	1065.3	1025.1	999.3	972.0	947.6	934.7	940.4
22.5°	1949.8	1589.4	1243.4	1119.9	1033.7	996.4	941.9	923.2	888.7	874.4	862.9
25°	2086.2	1635.3	1221.8	1072.5	977.7	917.4	868.6	842.8	818.4	799.7	794.0
27.5°	2120.6	1669.8	1171.6	992.1	888.7	825.6	783.9	752.3	736.5	707.8	702.1
30°	2221.1	1635.3	1096.9	894.5	804.0	739.4	697.8	674.8	637.5	630.3	614.5
32.5°	2285.7	1645.4	1002.2	799.7	706.4	649.0	621.7	598.7	588.7	554.2	545.6
35°	2393.4	1610.9	906.0	712.1	626.0	581.5	558.5	551.3	518.3	502.5	488.2
37.5°	2462.3	1590.8	809.8	613.1	538.4	519.7	526.9	496.8	456.6	426.4	416.4
40°	2582.9	1583.6	700.6	531.2	478.1	473.8	496.8	439.3	366.1	340.3	325.9
42.5°	2756.6	1534.8	615.9	458.0	430.7	449.4	453.7	366.1	324.5	302.9	292.9
45°	2923.2	1544.9	532.7	379.0	374.7	402.0	392.0	310.1	285.7	269.9	278.5
47.5°	3243.4	1595.1	450.8	315.9	337.4	363.2	304.4	277.1	254.1	242.6	244.1
50°	3738.7	1643.9	379.0	288.6	318.7	328.8	261.3	251.3	249.8	226.8	225.4
52.5°	4035.9	1625.3	366.1	323.0	341.7	328.8	284.3	277.1	265.6	255.6	244.1
55°	4508.3	1679.8	393.4	377.6	387.7	315.9	318.7	315.9	307.3	281.4	288.6
57.5°	4884.4	1715.7	429.3	422.1	416.4	328.8	333.1	334.5	328.8	317.3	327.4
60°	5401.3	1787.5	466.6	468.1	469.5	357.5	364.7	373.3	371.9	367.6	370.4
62.5°	5718.6	1754.5	508.3	531.2	524.1	416.4	414.9	420.7	420.7	427.9	432.2
65°	5671.2	1632.5	529.8	587.2	549.9	459.4	459.4	462.3	463.7	478.1	479.5
67°	5387.0	1414.2	518.3	595.8	549.9	476.7	476.7	479.5	469.5	506.8	495.3
67.5°	5254.9	1349.6	508.3	588.7	545.6	475.2	475.2	476.7	468.1	503.9	492.5
70°	4570.0	1002.2	437.9	521.2	505.4	462.3	462.3	453.7	446.5	493.9	483.8
72.5°	3900.9	727.9	351.8	443.6	456.6	445.1	448.0	426.4	406.3	439.3	430.7
75°	2987.8	535.5	274.2	341.7	386.2	416.4	435.0	380.5	354.6	363.2	347.5
77.5°	1666.9	348.9	216.8	252.7	294.3	387.7	417.8	343.1	290.0	280.0	280.0
80°	565.7	203.9	159.4	188.1	202.4	343.1	390.5	278.5	228.3	218.2	211.1
82.5°	213.9	124.9	109.1	129.2	129.2	271.4	318.7	213.9	172.3	222.5	226.8
85°	97.6	74.7	71.8	74.7	74.7	166.5	225.4	139.3	155.1	133.5	117.7
87.5°	38.8	35.9	33.0	31.6	25.8	28.7	77.5	37.3	70.4	18.7	17.2
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)