

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: P476828

Luminaire Tested: **IFLD-S-SA2D-722-U-T2R**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P476828  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA2D-722-U-T2R  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens  
Light Source: (32) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

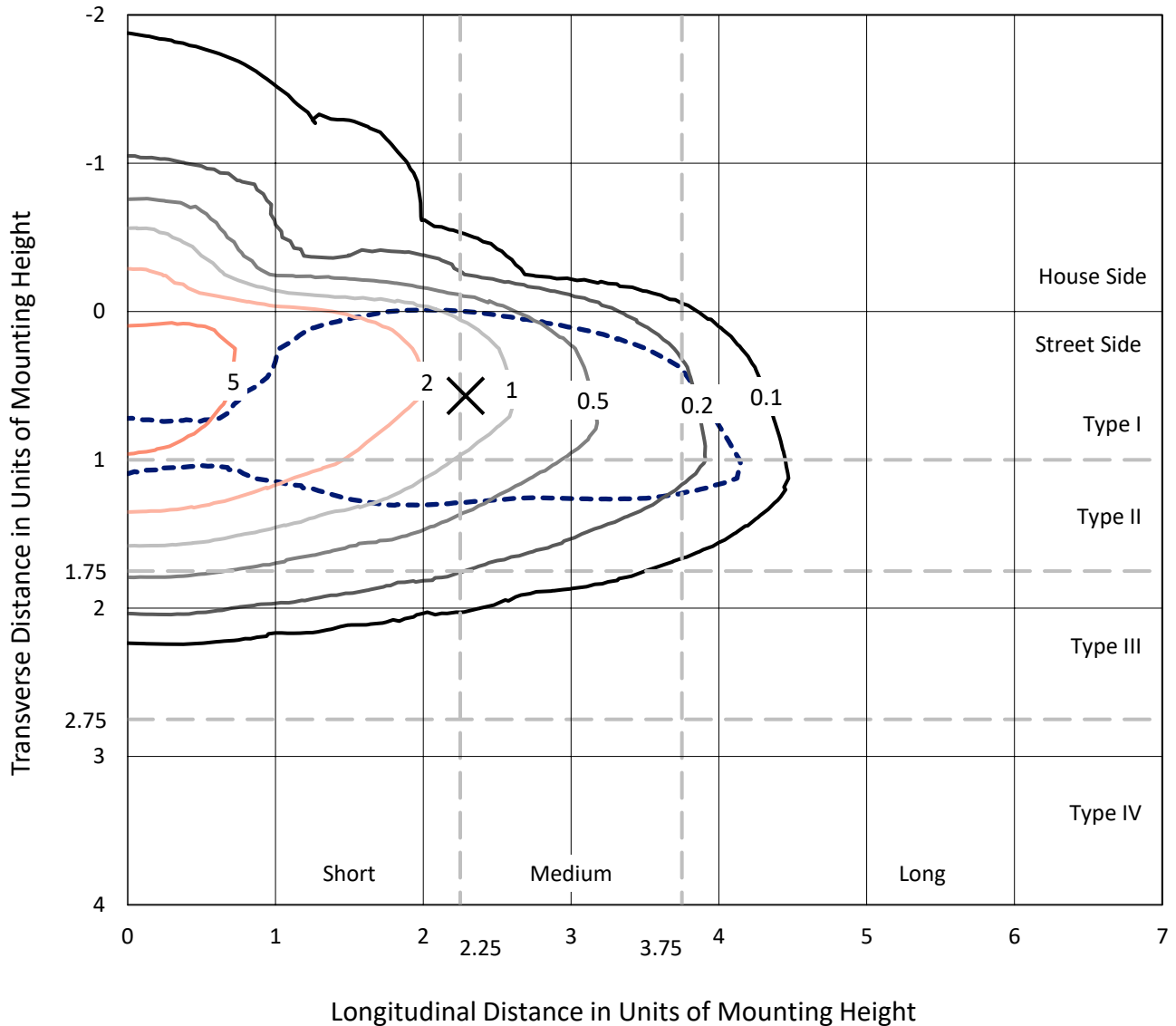
Lumens per Lamp: N/A  
Luminaire Lumens: 11584.8 lumens  
Efficiency: N/A  
Efficacy: 93.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B2 - U0 - G2

Input Watts (W): 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

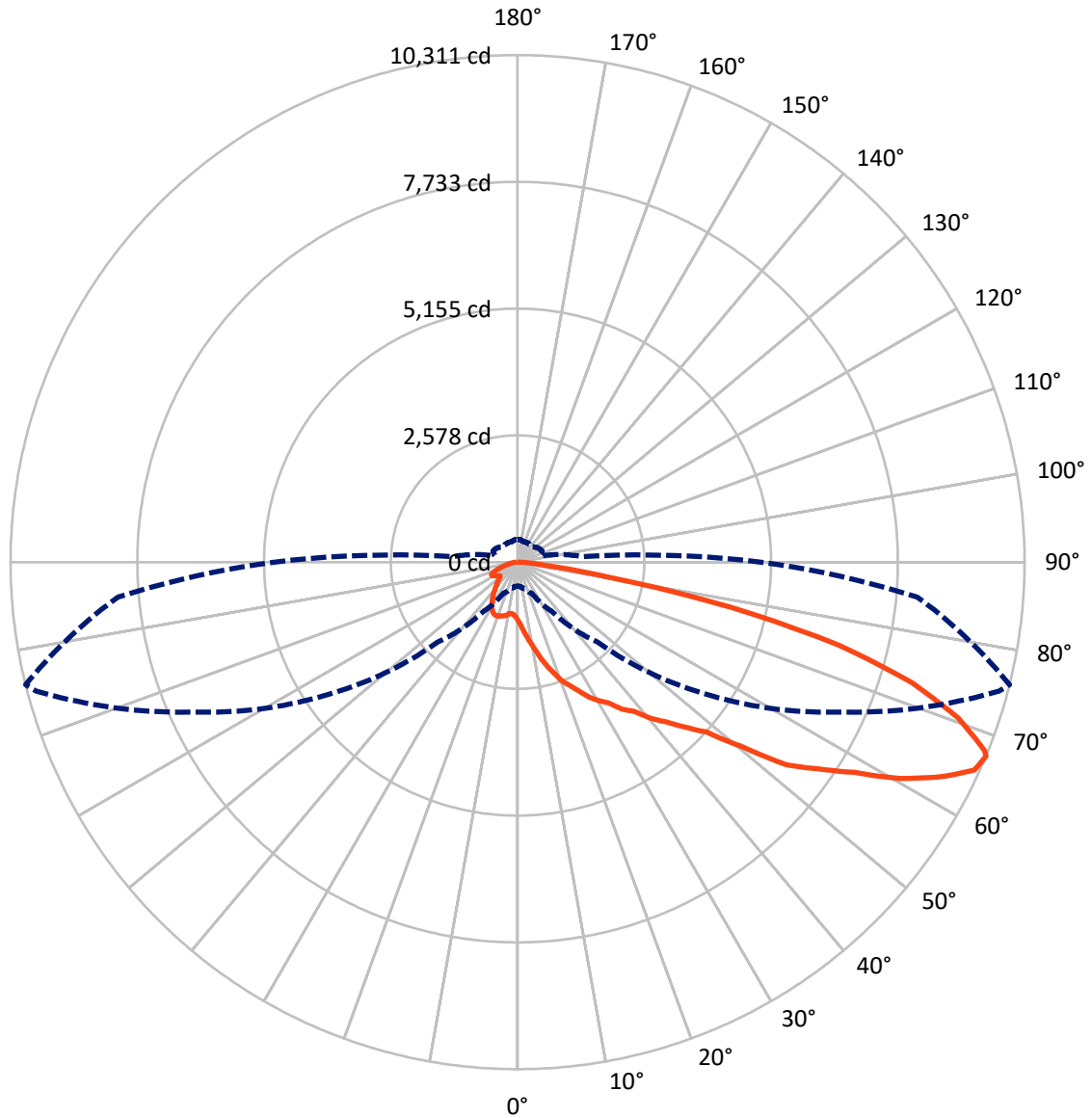
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6.9 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
<b>House Side</b>	Lumens	1648.1	0.0	1648.1
	% Fixture	14.2	0.0	14.2
<b>Street Side</b>	Lumens	9936.7	0.0	9936.7
	% Fixture	85.8	0.0	85.8
<b>Total</b>	Lumens	11584.8	0.0	11584.8
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	137.3	1.2
10°-20°	515.0	4.4
20°-30°	957.5	8.3
30°-40°	1517.9	13.1
40°-50°	2099.4	18.1
50°-60°	2582.4	22.3
60°-70°	2403.1	20.7
70°-80°	1205.8	10.4
80°-90°	166.3	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°	11584.8	100.0
0°-180°	11584.8	100.0



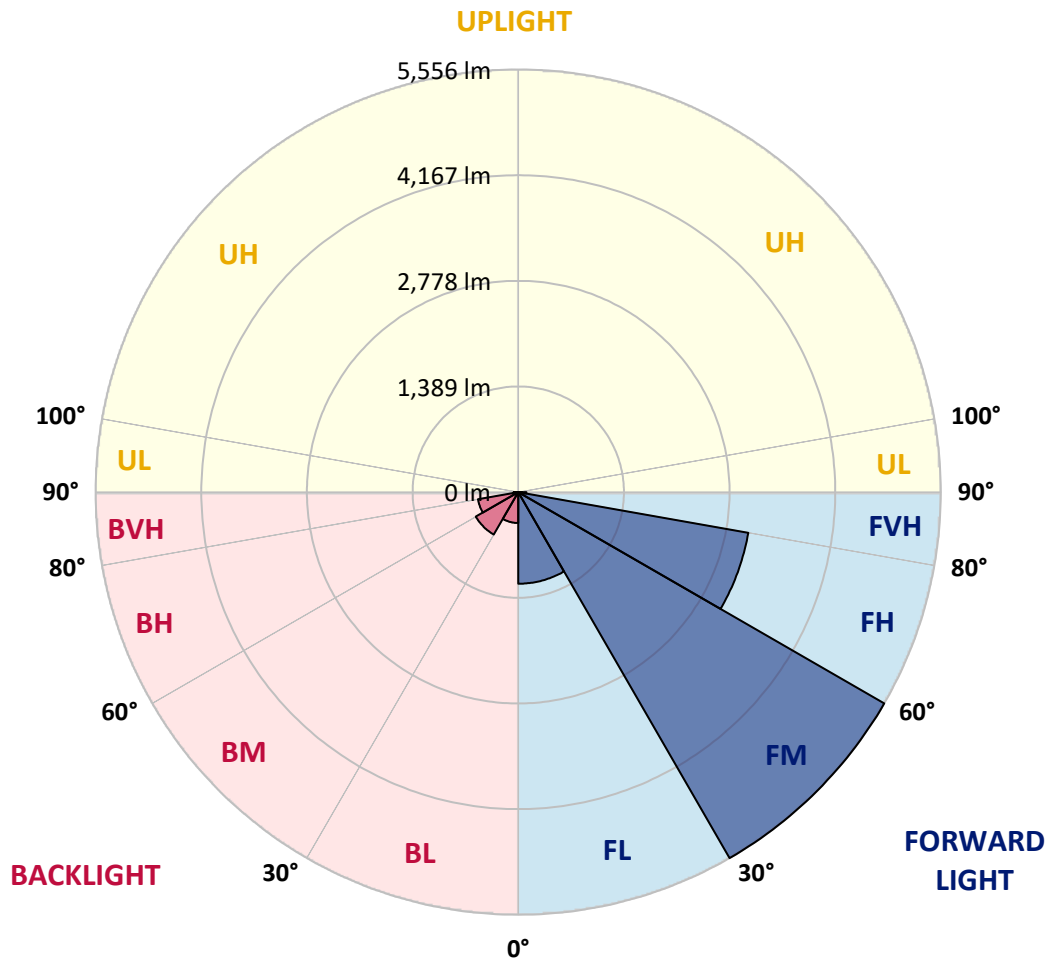
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1204.1	10.4			
FM (30°-60°)	5555.7	48.0			
FH (60°-80°)	3071.0	26.5			G2/5000
FVH (80°-90°)	105.9	0.9			G2/225
BL (0°-30°)	405.9	3.5	B1/500		
BM (30°-60°)	644.0	5.6	B1/1000		
BH (60°-80°)	537.9	4.6	B2/1000		G2/1000
BVH (80°-90°)	60.3	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°	1185.5	1185.5	1185.5	1185.5	1185.5	1185.5	1185.5	1185.5	1185.5	1185.5	1185.5
2.5°	1645.0	1625.2	1605.3	1563.1	1548.6	1509.0	1436.4	1355.8	1289.8	1280.6	1234.4
5°	2041.0	2012.0	2005.4	1981.6	1906.4	1829.8	1711.0	1581.6	1420.5	1432.4	1274.0
7.5°	2338.1	2320.9	2285.2	2262.8	2217.9	2116.3	1993.5	1821.9	1617.2	1577.6	1362.4
10°	2562.5	2538.7	2537.4	2517.6	2493.8	2389.5	2295.8	2064.8	1802.1	1747.9	1470.7
12.5°	2676.0	2672.1	2742.0	2742.0	2732.8	2689.2	2528.2	2316.9	1977.6	1959.2	1596.1
15°	2798.8	2765.8	2826.5	2872.7	2896.5	2918.9	2785.6	2562.5	2202.1	2166.4	1730.8
17.5°	2798.8	2796.2	2856.9	2933.5	3057.6	3086.6	3014.0	2788.2	2388.2	2361.8	1878.6
20°	2751.3	2789.6	2831.8	2934.8	3069.4	3186.9	3208.1	3019.3	2594.2	2573.0	2046.3
22.5°	2973.1	2936.1	2979.7	3019.3	3123.6	3301.8	3359.9	3222.6	2810.7	2730.1	2198.1
25°	3345.4	3320.3	3288.6	3230.5	3274.1	3352.0	3440.4	3373.1	2995.5	2905.7	2344.7
27.5°	3708.4	3709.7	3641.1	3514.3	3420.6	3436.5	3540.7	3505.1	3151.3	3111.7	2445.0
30°	4224.6	4192.9	4116.3	3944.7	3761.2	3610.7	3593.6	3627.9	3349.3	3272.7	2588.9
32.5°	4611.4	4618.0	4509.8	4262.9	4012.1	3889.3	3738.8	3753.3	3474.7	3418.0	2703.7
35°	4924.3	4916.4	4839.8	4635.2	4338.1	4190.3	3987.0	3903.8	3766.5	3676.7	2879.3
37.5°	5262.3	5197.6	5073.5	4842.5	4652.3	4447.7	4249.7	4062.2	3960.6	3852.3	3029.8
40°	5398.2	5398.2	5231.9	5126.3	4900.5	4746.1	4618.0	4270.8	4196.9	4175.8	3222.6
42.5°	5301.9	5361.3	5292.6	5172.5	5080.1	4884.7	4850.4	4487.3	4488.6	4446.4	3453.6
45°	5292.6	5210.8	5154.0	5184.4	5140.8	5130.3	5217.4	4787.0	4794.9	4789.6	3763.9
47.5°	5027.3	4990.3	5074.8	5125.0	5160.6	5324.3	5575.2	5144.8	5201.5	5161.9	4121.6
50°	4763.2	4756.6	4809.4	4991.6	5146.1	5415.4	5915.8	5696.6	5882.8	5880.1	4769.8
52.5°	4039.8	4109.7	4317.0	4702.5	5084.0	5539.5	6173.2	6401.6	6756.7	6853.1	5307.2
55°	3348.0	3311.0	3617.3	4177.1	4813.4	5588.4	6461.0	6825.4	7348.2	7418.1	5859.0
57.5°	2604.7	2673.4	2915.0	3452.3	4253.6	5346.8	6672.2	7243.9	8016.2	8070.3	6499.3
60°	1943.3	1952.6	2217.9	2650.9	3509.1	4801.5	6740.9	7672.9	8781.9	8936.4	7169.9
62.5°	1222.5	1277.9	1479.9	1906.4	2641.7	4038.5	6433.3	7933.0	9584.6	9625.5	7845.9
65°	658.8	694.4	846.2	1114.2	1845.6	3054.9	5617.4	7777.2	9962.1	10205.1	8146.9
67°	487.1	493.8	563.7	711.6	1234.4	2299.8	4684.0	7213.5	10133.8	10310.7	8158.8
67.5°	456.8	466.0	521.5	639.0	1094.4	2117.6	4439.8	7012.8	10057.2	10247.3	8066.4
70°	390.8	393.4	406.6	439.6	613.9	1274.0	3023.2	5746.8	9321.8	9504.0	7418.1
72.5°	347.2	349.8	355.1	361.7	415.9	736.7	1839.0	4422.6	8102.0	8392.4	6400.3
75°	305.0	314.2	316.8	311.6	353.8	479.2	978.3	3250.3	6608.9	6750.1	4977.1
77.5°	258.8	262.7	268.0	273.3	315.5	357.8	470.0	2194.2	4536.2	4450.4	2691.9
80°	217.8	219.2	223.1	227.1	273.3	273.3	266.7	1185.5	1981.6	1894.5	909.6
82.5°	155.8	165.0	174.3	184.8	227.1	183.5	174.3	528.1	627.1	596.7	307.6
85°	60.7	73.9	114.9	126.7	143.9	99.0	116.2	228.4	261.4	258.8	114.9
87.5°	10.6	11.9	31.7	48.8	52.8	34.3	55.4	81.9	97.7	105.6	42.2
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°	1185.5	1185.5	1185.5	1185.5	1185.5	1185.5	1185.5	1185.5	1185.5	1185.5	1185.5
2.5°	1196.1	1155.2	1106.3	1057.5	1025.8	975.6	971.7	941.3	937.3	926.8	932.1
5°	1205.3	1156.5	1057.5	979.6	943.9	914.9	921.5	908.3	904.3	897.7	887.2
7.5°	1277.9	1181.6	1033.7	966.4	940.0	926.8	926.8	910.9	899.0	907.0	914.9
10°	1325.5	1193.5	1052.2	984.9	963.7	934.7	945.3	925.5	932.1	916.2	916.2
12.5°	1402.0	1260.8	1090.5	1012.6	978.3	951.9	962.4	940.0	934.7	936.0	932.1
15°	1505.0	1305.7	1107.6	1028.4	1004.7	971.7	963.7	943.9	924.1	917.5	925.5
17.5°	1601.4	1361.1	1119.5	1037.7	999.4	962.4	953.2	928.1	921.5	901.7	885.8
20°	1716.2	1427.1	1135.4	1045.6	979.6	942.6	918.9	893.8	871.3	859.4	864.7
22.5°	1792.8	1461.4	1143.3	1029.7	950.5	916.2	866.0	848.9	817.2	804.0	793.4
25°	1918.2	1503.7	1123.5	986.2	899.0	843.6	798.7	775.0	752.5	735.3	730.1
27.5°	1949.9	1535.4	1077.3	912.3	817.2	759.1	720.8	691.8	677.3	650.9	645.6
30°	2042.3	1503.7	1008.6	822.5	739.3	679.9	641.6	620.5	586.2	579.6	565.0
32.5°	2101.7	1512.9	921.5	735.3	649.5	596.7	571.6	550.5	541.3	509.6	501.7
35°	2200.8	1481.3	833.0	654.8	575.6	534.7	513.6	507.0	476.6	462.1	448.9
37.5°	2264.1	1462.8	744.6	563.7	495.1	477.9	484.5	456.8	419.8	392.1	382.9
40°	2375.0	1456.2	644.3	488.5	439.6	435.7	456.8	404.0	336.6	312.9	299.7
42.5°	2534.8	1411.3	566.4	421.1	396.1	413.2	417.2	336.6	298.4	278.6	269.3
45°	2687.9	1420.5	489.8	348.5	344.6	369.7	360.4	285.2	262.7	248.2	256.1
47.5°	2982.3	1466.7	414.5	290.4	310.2	334.0	279.9	254.8	233.7	223.1	224.4
50°	3437.8	1511.6	348.5	265.4	293.1	302.3	240.3	231.0	229.7	208.6	207.3
52.5°	3711.0	1494.5	336.6	297.0	314.2	302.3	261.4	254.8	244.2	235.0	224.4
55°	4145.4	1544.6	361.7	347.2	356.5	290.4	293.1	290.4	282.5	258.8	265.4
57.5°	4491.3	1577.6	394.7	388.1	382.9	302.3	306.3	307.6	302.3	291.8	301.0
60°	4966.5	1643.6	429.1	430.4	431.7	328.7	335.3	343.2	341.9	338.0	340.6
62.5°	5258.3	1613.3	467.3	488.5	481.9	382.9	381.5	386.8	386.8	393.4	397.4
65°	5214.7	1501.1	487.1	540.0	505.6	422.5	422.5	425.1	426.4	439.6	440.9
67°	4953.3	1300.4	476.6	547.9	505.6	438.3	438.3	440.9	431.7	466.0	455.5
67.5°	4831.9	1241.0	467.3	541.3	501.7	437.0	437.0	438.3	430.4	463.4	452.8
70°	4202.2	921.5	402.7	479.2	464.7	425.1	425.1	417.2	410.6	454.1	444.9
72.5°	3587.0	669.3	323.4	407.9	419.8	409.3	411.9	392.1	373.6	404.0	396.1
75°	2747.3	492.4	252.2	314.2	355.1	382.9	400.0	349.8	326.1	334.0	319.5
77.5°	1532.7	320.8	199.3	232.4	270.6	356.5	384.2	315.5	266.7	257.4	257.4
80°	520.2	187.5	146.5	172.9	186.1	315.5	359.1	256.1	209.9	200.7	194.1
82.5°	196.7	114.9	100.3	118.8	118.8	249.5	293.1	196.7	158.4	204.6	208.6
85°	89.8	68.6	66.0	68.6	68.6	153.1	207.3	128.1	142.6	122.8	108.3
87.5°	35.6	33.0	30.4	29.0	23.8	26.4	71.3	34.3	64.7	17.2	15.8
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)