

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: P477160

Luminaire Tested: **IFLD-S-SA6D-830-U-T2R**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P477160  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA6D-830-U-T2R  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens  
Light Source: (96) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

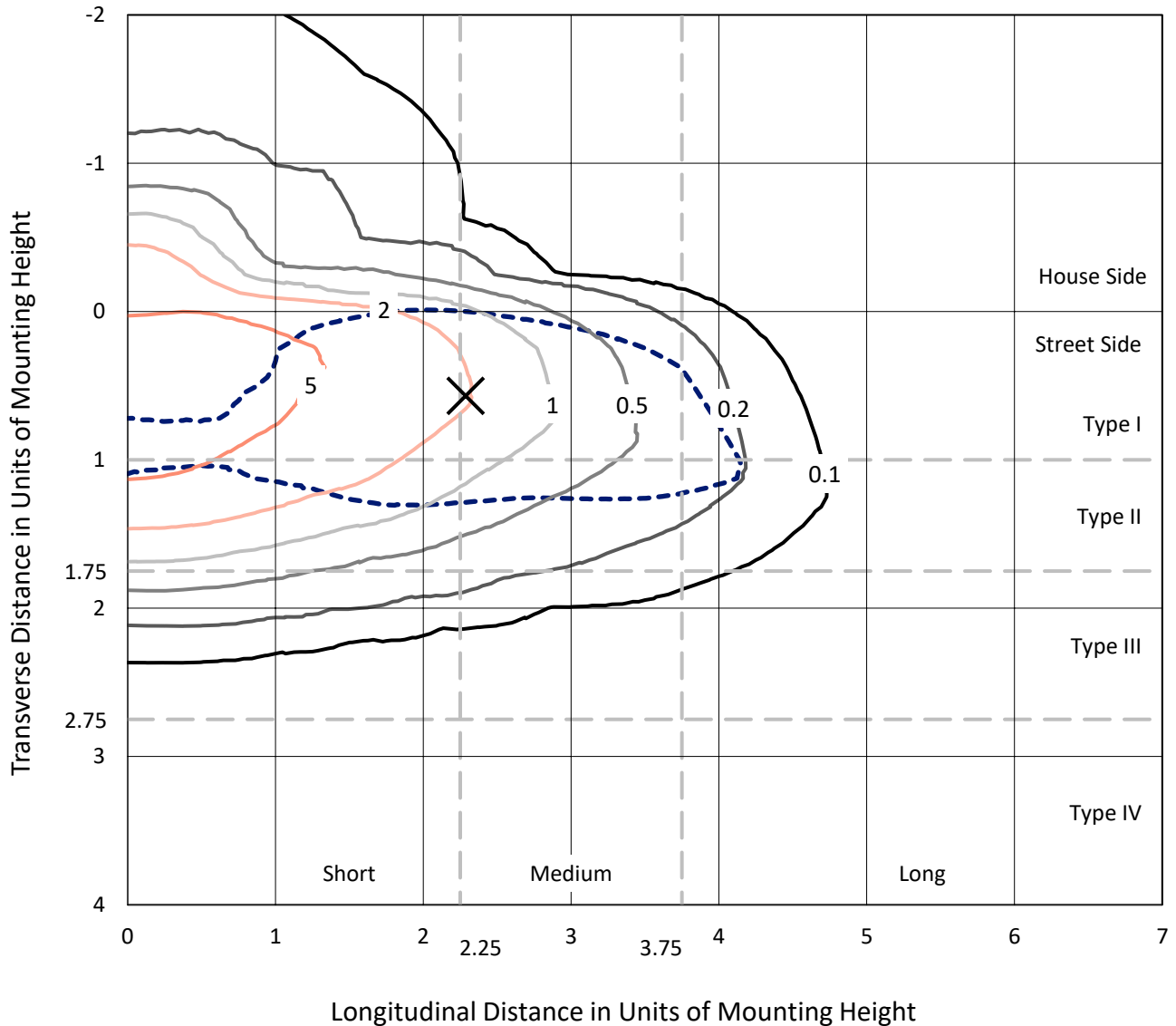
Lumens per Lamp: N/A  
Luminaire Lumens: 36534.8 lumens  
Efficiency: N/A  
Efficacy: 99.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G4

Input Watts (W): 368.2  
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

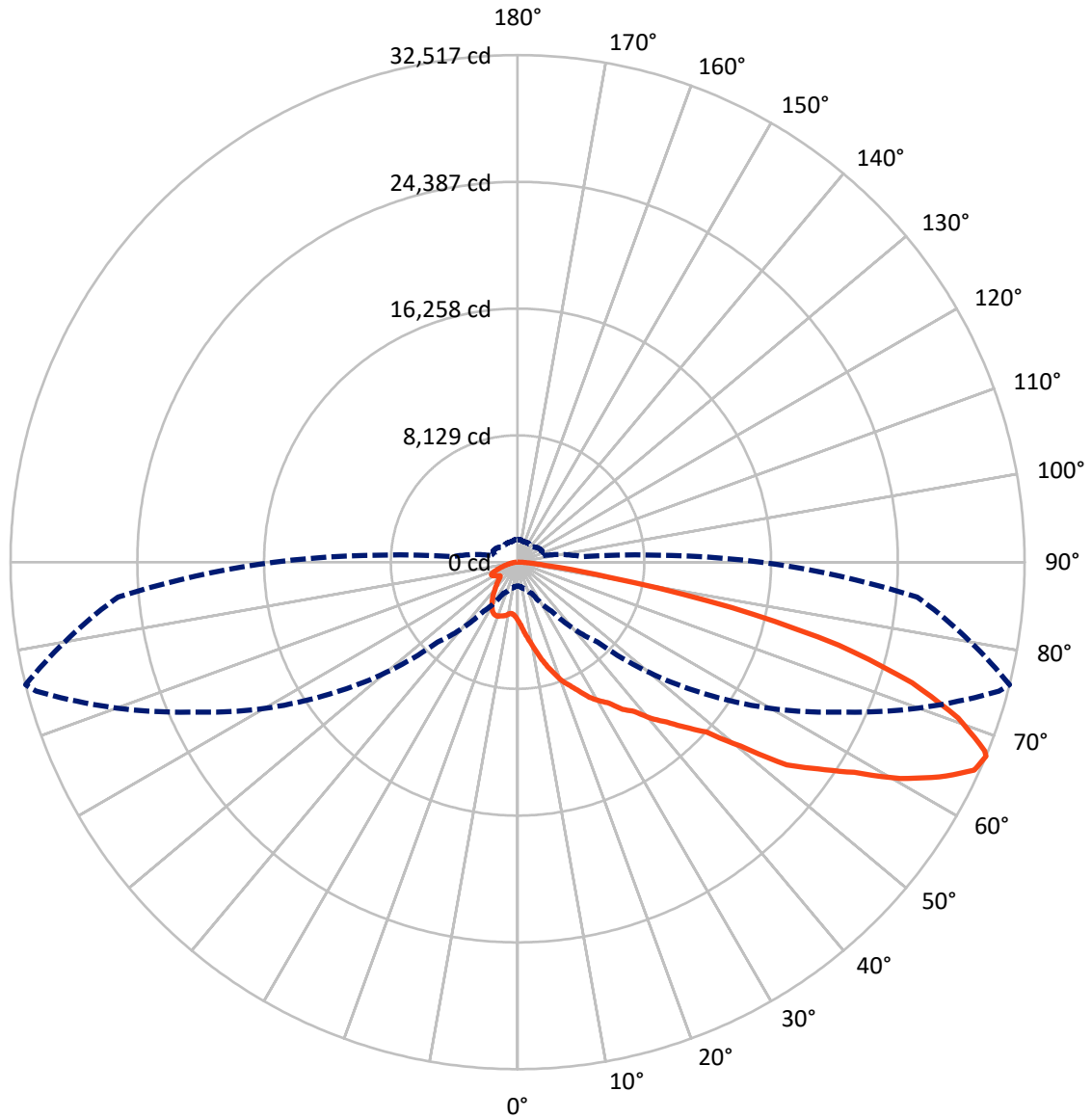
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 9.7 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	5197.5	0.0	5197.5
	% Fixture	14.2	0.0	14.2
<b>Street Side</b>	Lumens	31337.2	0.0	31337.2
	% Fixture	85.8	0.0	85.8
<b>Total</b>	Lumens	36534.8	0.0	36534.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	433.1	1.2
10°-20°	1624.3	4.4
20°-30°	3019.8	8.3
30°-40°	4787.0	13.1
40°-50°	6620.9	18.1
50°-60°	8144.1	22.3
60°-70°	7578.5	20.7
70°-80°	3802.8	10.4
80°-90°	524.4	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°	36534.8	100.0
0°-180°	36534.8	100.0

**Coefficient of Utilization**



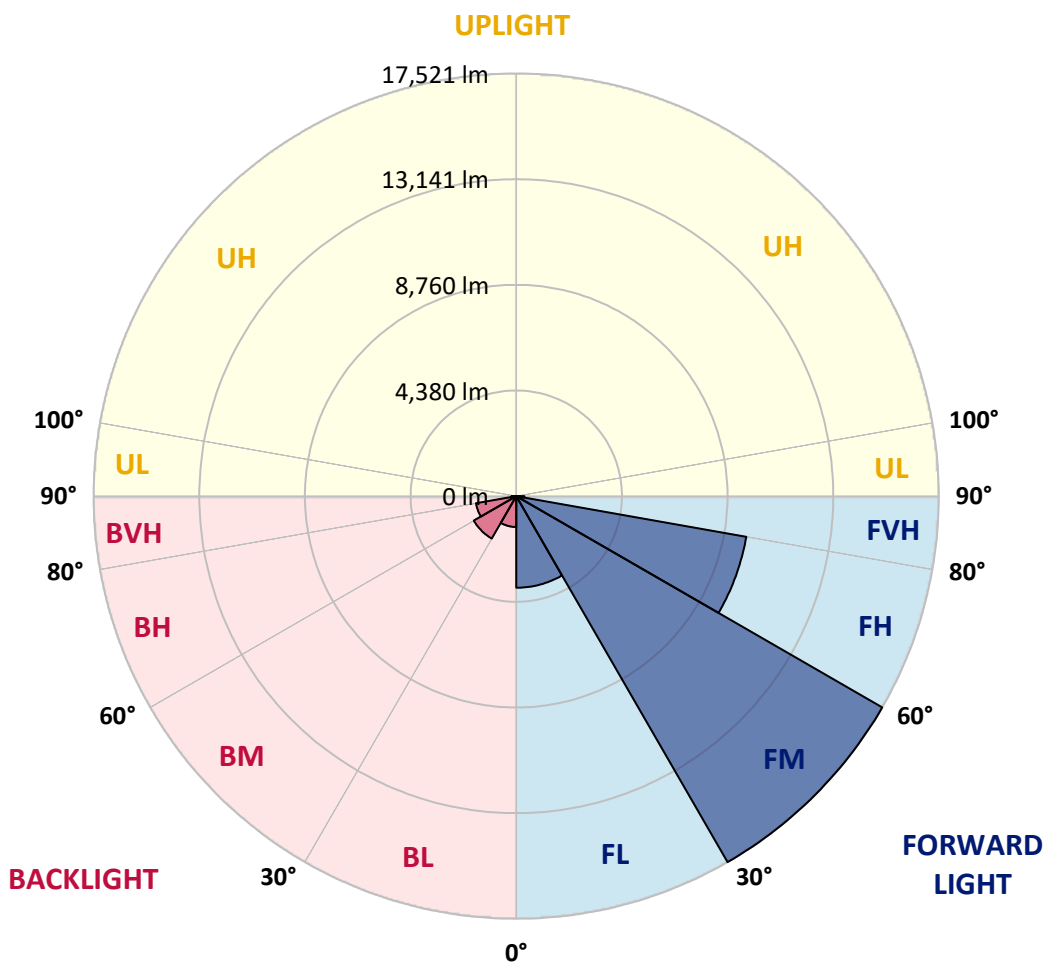
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3797.2	10.4			
FM (30°-60°)	17520.9	48.0			
FH (60°-80°)	9685.1	26.5			G4/12000
FVH (80°-90°)	334.1	0.9			G3/500
BL (0°-30°)	1279.9	3.5	B3/2500		
BM (30°-60°)	2031.1	5.6	B2/2500		
BH (60°-80°)	1696.2	4.6	B3/2500		G3/2500
BVH (80°-90°)	190.3	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G4**

Type II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3738.8	3738.8	3738.8	3738.8	3738.8	3738.8	3738.8	3738.8	3738.8	3738.8	3738.8
2.5°	5187.7	5125.2	5062.7	4929.5	4883.7	4758.8	4529.8	4275.9	4067.7	4038.5	3892.8
5°	6436.7	6345.1	6324.3	6249.3	6012.0	5770.5	5395.8	4987.8	4479.9	4517.3	4017.7
7.5°	7373.5	7319.3	7206.9	7136.1	6994.6	6674.0	6286.8	5745.6	5100.2	4975.3	4296.7
10°	8081.2	8006.3	8002.1	7939.7	7864.7	7535.8	7240.2	6511.6	5683.1	5512.4	4638.1
12.5°	8439.3	8426.8	8647.5	8647.5	8618.3	8480.9	7973.0	7306.8	6236.8	6178.6	5033.6
15°	8826.5	8722.4	8913.9	9059.7	9134.6	9205.4	8784.9	8081.2	6944.6	6832.2	5458.3
17.5°	8826.5	8818.2	9009.7	9251.2	9642.5	9734.1	9505.1	8793.2	7531.7	7448.4	5924.6
20°	8676.6	8797.4	8930.6	9255.3	9680.0	10050.6	10117.2	9521.8	8181.2	8114.6	6453.3
22.5°	9376.1	9259.5	9396.9	9521.8	9850.7	10412.8	10596.0	10163.0	8864.0	8610.0	6932.1
25°	10550.2	10471.1	10371.1	10188.0	10325.3	10571.0	10849.9	10637.6	9446.9	9163.7	7394.3
27.5°	11695.1	11699.3	11482.8	11083.1	10787.5	10837.4	11166.4	11053.9	9938.1	9813.2	7710.7
30°	13323.0	13223.1	12981.6	12440.4	11861.7	11387.0	11332.9	11441.1	10562.7	10321.2	8164.5
32.5°	14542.9	14563.7	14222.3	13443.8	12652.7	12265.5	11790.9	11836.7	10958.2	10779.2	8526.7
35°	15529.7	15504.7	15263.2	14617.9	13681.1	13214.8	12573.6	12311.3	11878.3	11595.2	9080.5
37.5°	16595.5	16391.5	16000.1	15271.5	14672.0	14026.6	13402.1	12810.9	12490.3	12148.9	9555.1
40°	17024.3	17024.3	16499.7	16166.7	15454.7	14967.6	14563.7	13468.7	13235.6	13169.0	10163.0
42.5°	16720.4	16907.8	16691.3	16312.4	16020.9	15404.7	15296.5	14151.6	14155.7	14022.5	10891.6
45°	16691.3	16433.1	16254.1	16349.9	16212.5	16179.1	16453.9	15096.7	15121.6	15105.0	11870.0
47.5°	15854.4	15737.8	16004.3	16162.5	16274.9	16791.2	17582.2	16224.9	16404.0	16279.1	12998.3
50°	15021.7	15000.9	15167.4	15742.0	16229.1	17078.5	18656.4	17965.3	18552.3	18544.0	15042.5
52.5°	12740.1	12960.8	13614.5	14830.2	16033.4	17469.8	19468.3	20188.5	21308.5	21612.4	16737.1
55°	10558.5	10441.9	11407.8	13173.1	15179.9	17623.9	20375.9	21525.0	23173.7	23394.4	18477.4
57.5°	8214.5	8431.0	9192.9	10887.4	13414.6	16862.0	21042.1	22844.8	25280.4	25451.1	20496.6
60°	6128.6	6157.7	6994.6	8360.2	11066.4	15142.5	21258.6	24197.9	27695.2	28182.4	22611.7
62.5°	3855.4	4030.2	4667.2	6012.0	8331.1	12736.0	20288.5	25018.1	30226.6	30355.7	24743.4
65°	2077.6	2190.0	2668.8	3513.9	5820.5	9634.2	17715.5	24526.9	31417.4	32183.4	25692.6
67°	1536.3	1557.1	1777.8	2244.1	3892.8	7252.7	14771.9	22749.1	31958.6	32516.5	25730.1
67.5°	1440.6	1469.7	1644.6	2015.1	3451.5	6678.2	14001.7	22116.2	31717.1	32316.7	25438.7
70°	1232.4	1240.7	1282.3	1386.4	1936.0	4017.7	9534.3	18123.5	29398.1	29972.6	23394.4
72.5°	1095.0	1103.3	1120.0	1140.8	1311.5	2323.2	5799.7	13947.5	25551.1	26467.0	20184.4
75°	961.8	990.9	999.2	982.6	1115.8	1511.3	3085.1	10250.4	20842.2	21287.7	15696.2
77.5°	816.0	828.5	845.2	861.8	995.1	1128.3	1482.2	6919.6	14305.6	14035.0	8489.3
80°	687.0	691.1	703.6	716.1	861.8	861.8	841.0	3738.8	6249.3	5974.5	2868.6
82.5°	491.3	520.4	549.6	582.9	716.1	578.7	549.6	1665.4	1977.6	1881.9	970.1
85°	191.5	233.2	362.2	399.7	453.8	312.3	366.4	720.3	824.4	816.0	362.2
87.5°	33.3	37.5	99.9	154.0	166.5	108.2	174.9	258.1	308.1	333.1	133.2
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°	3738.8	3738.8	3738.8	3738.8	3738.8	3738.8	3738.8	3738.8	3738.8	3738.8	3738.8
2.5°	3772.1	3643.0	3489.0	3334.9	3235.0	3076.8	3064.3	2968.5	2956.0	2922.7	2939.4
5°	3801.2	3647.2	3334.9	3089.3	2976.9	2885.3	2906.1	2864.5	2852.0	2831.1	2797.8
7.5°	4030.2	3726.3	3260.0	3047.6	2964.4	2922.7	2922.7	2872.8	2835.3	2860.3	2885.3
10°	4180.1	3763.8	3318.3	3105.9	3039.3	2947.7	2981.0	2918.6	2939.4	2889.4	2889.4
12.5°	4421.6	3976.1	3439.0	3193.4	3085.1	3001.8	3035.2	2964.4	2947.7	2951.9	2939.4
15°	4746.3	4117.6	3493.1	3243.3	3168.4	3064.3	3039.3	2976.9	2914.4	2893.6	2918.6
17.5°	5050.3	4292.5	3530.6	3272.5	3151.7	3035.2	3006.0	2926.9	2906.1	2843.6	2793.7
20°	5412.5	4500.7	3580.6	3297.4	3089.3	2972.7	2897.8	2818.7	2747.9	2710.4	2727.1
22.5°	5654.0	4608.9	3605.5	3247.5	2997.7	2889.4	2731.2	2677.1	2577.2	2535.5	2502.2
25°	6049.5	4742.2	3543.1	3110.1	2835.3	2660.4	2518.9	2443.9	2373.2	2319.0	2302.4
27.5°	6149.4	4842.1	3397.4	2876.9	2577.2	2394.0	2273.2	2181.6	2135.8	2052.6	2035.9
30°	6440.9	4742.2	3180.9	2593.8	2331.5	2144.2	2023.4	1956.8	1848.6	1827.8	1782.0
32.5°	6628.2	4771.3	2906.1	2319.0	2048.4	1881.9	1802.8	1736.2	1707.0	1607.1	1582.1
35°	6940.5	4671.4	2627.1	2065.1	1815.3	1686.2	1619.6	1598.8	1503.0	1457.2	1415.6
37.5°	7140.3	4613.1	2348.2	1777.8	1561.3	1507.2	1528.0	1440.6	1324.0	1236.5	1207.4
40°	7490.0	4592.3	2031.8	1540.5	1386.4	1373.9	1440.6	1274.0	1061.7	986.7	945.1
42.5°	7993.8	4450.7	1786.1	1328.1	1249.0	1303.2	1315.6	1061.7	940.9	878.5	849.3
45°	8476.8	4479.9	1544.6	1099.1	1086.7	1165.8	1136.6	899.3	828.5	782.7	807.7
47.5°	9405.2	4625.6	1307.3	916.0	978.4	1053.4	882.7	803.5	736.9	703.6	707.8
50°	10841.6	4767.1	1099.1	836.9	924.3	953.4	757.7	728.6	724.4	657.8	653.7
52.5°	11703.4	4713.0	1061.7	936.8	990.9	953.4	824.4	803.5	770.2	741.1	707.8
55°	13073.2	4871.2	1140.8	1095.0	1124.1	916.0	924.3	916.0	891.0	816.0	836.9
57.5°	14164.0	4975.3	1244.9	1224.1	1207.4	953.4	965.9	970.1	953.4	920.1	949.3
60°	15662.9	5183.5	1353.1	1357.3	1361.4	1036.7	1057.5	1082.5	1078.3	1065.8	1074.2
62.5°	16583.0	5087.7	1473.9	1540.5	1519.7	1207.4	1203.2	1219.9	1219.9	1240.7	1253.2
65°	16445.6	4733.8	1536.3	1702.8	1594.6	1332.3	1332.3	1340.6	1344.8	1386.4	1390.6
67°	15621.2	4101.0	1503.0	1727.8	1594.6	1382.3	1382.3	1390.6	1361.4	1469.7	1436.4
67.5°	15238.2	3913.6	1473.9	1707.0	1582.1	1378.1	1378.1	1382.3	1357.3	1461.4	1428.1
70°	13252.2	2906.1	1269.9	1511.3	1465.5	1340.6	1340.6	1315.6	1294.8	1432.2	1403.1
72.5°	11312.1	2110.9	1020.0	1286.5	1324.0	1290.7	1299.0	1236.5	1178.3	1274.0	1249.0
75°	8664.1	1553.0	795.2	990.9	1120.0	1207.4	1261.5	1103.3	1028.4	1053.4	1007.6
77.5°	4833.8	1011.7	628.7	732.8	853.5	1124.1	1211.6	995.1	841.0	811.9	811.9
80°	1640.4	591.2	462.1	545.4	587.0	995.1	1132.5	807.7	662.0	632.8	612.0
82.5°	620.4	362.2	316.4	374.7	374.7	786.9	924.3	620.4	499.6	645.3	657.8
85°	283.1	216.5	208.2	216.5	216.5	483.0	653.7	403.9	449.7	387.2	341.4
87.5°	112.4	104.1	95.8	91.6	74.9	83.3	224.8	108.2	204.0	54.1	50.0
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)