

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: P477136

Luminaire Tested: **IFLD-L-SA8D-827-U-T2R**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P477136  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA8D-827-U-T2R  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens  
Light Source: (128) 2700K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

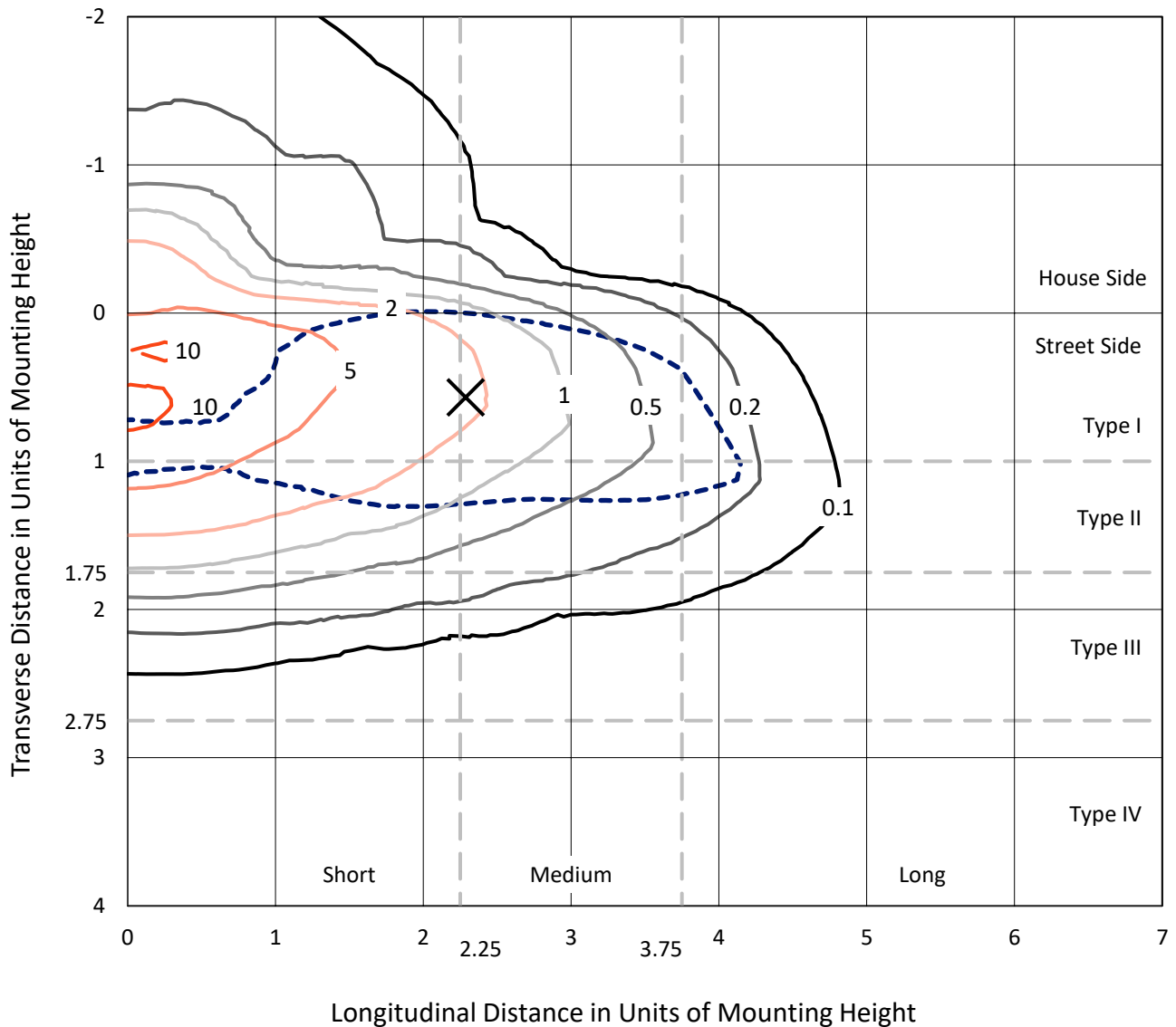
Lumens per Lamp: N/A  
Luminaire Lumens: 41210.4 lumens  
Efficiency: N/A  
Efficacy: 84.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G4

Input Watts (W): 488.3  
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

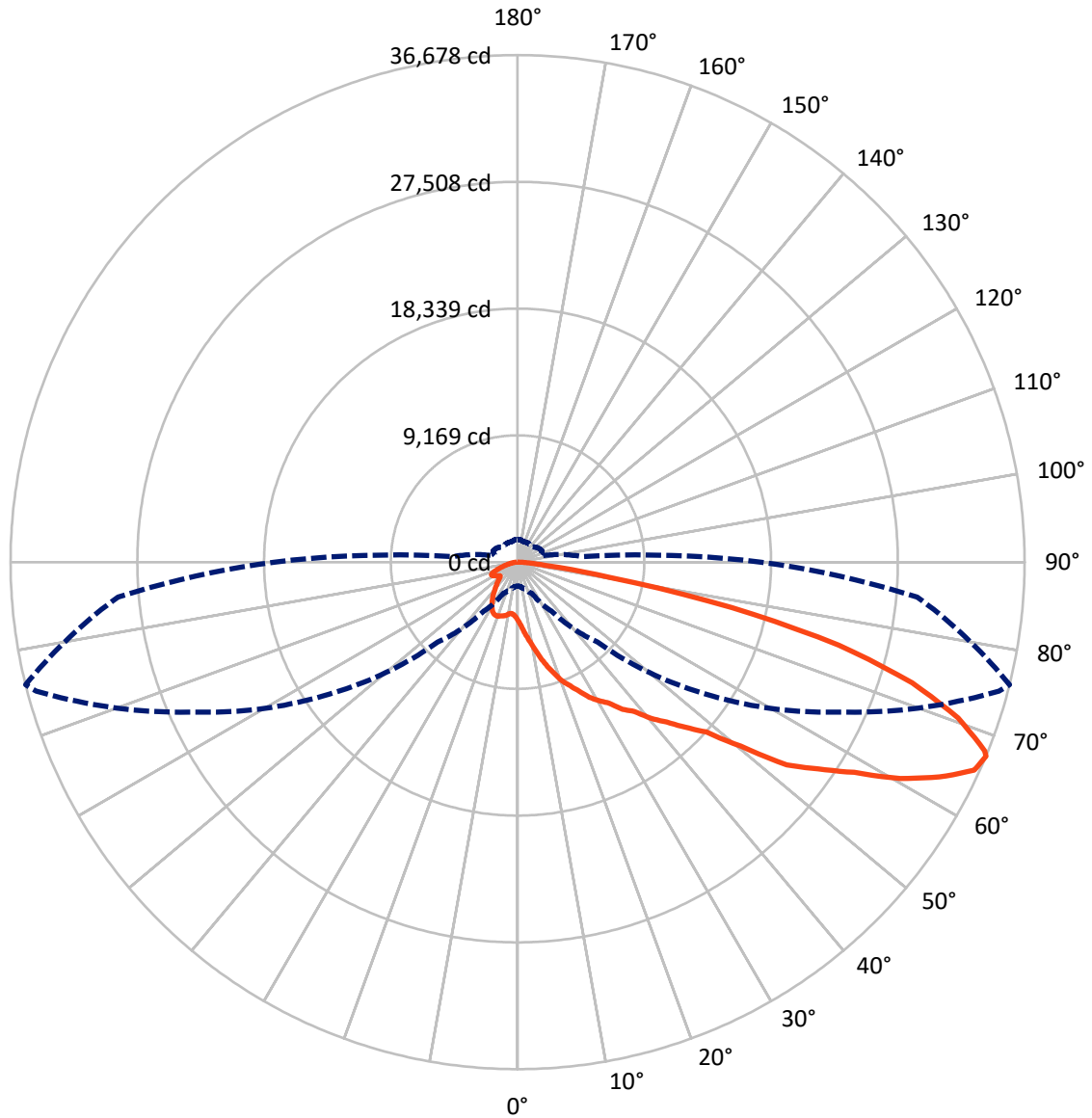
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 10.9 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	5862.7	0.0	5862.7
	% Fixture	14.2	0.0	14.2
<b>Street Side</b>	Lumens	35347.7	0.0	35347.7
	% Fixture	85.8	0.0	85.8
<b>Total</b>	Lumens	41210.4	0.0	41210.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	488.5	1.2
10°-20°	1832.2	4.4
20°-30°	3406.2	8.3
30°-40°	5399.7	13.1
40°-50°	7468.2	18.1
50°-60°	9186.4	22.3
60°-70°	8548.3	20.7
70°-80°	4289.5	10.4
80°-90°	591.5	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°	41210.4	100.0
0°-180°	41210.4	100.0

**Coefficient of Utilization**



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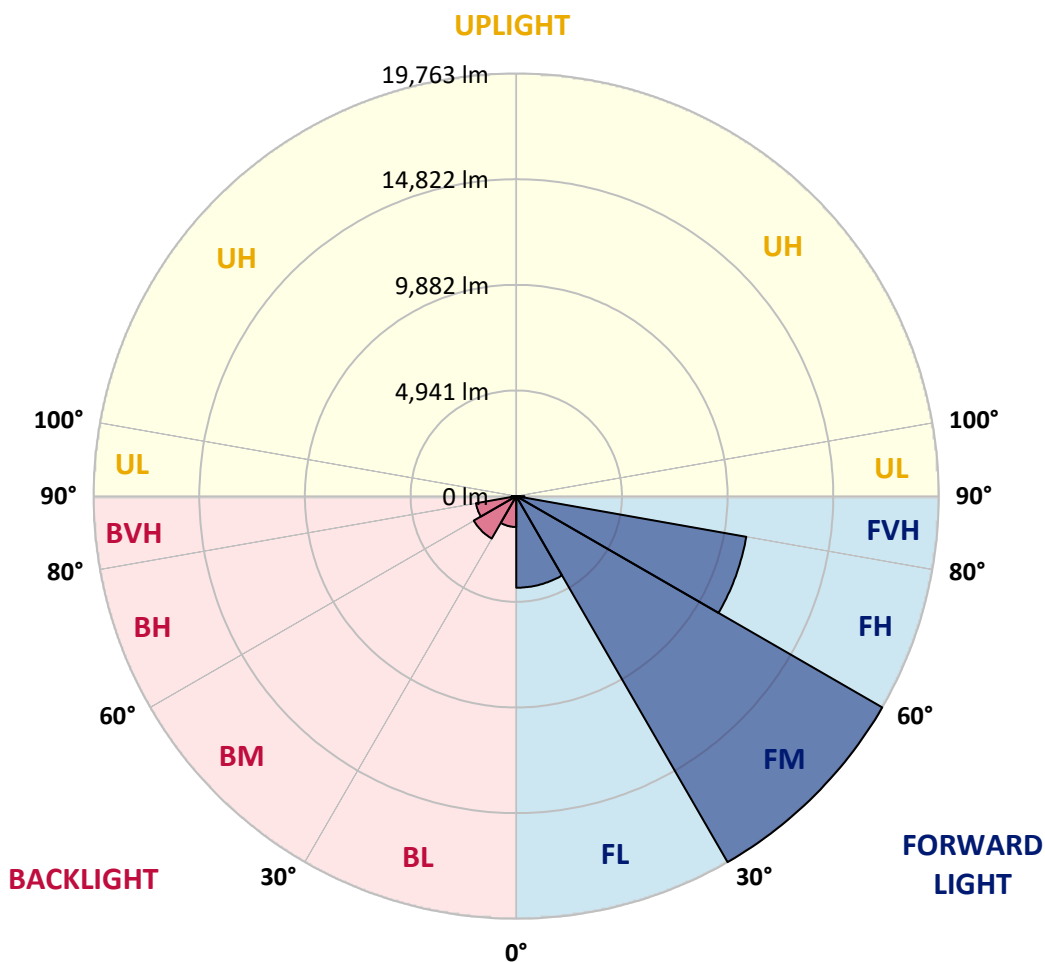
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4283.2	10.4			
FM (30°-60°)	19763.2	48.0			
FH (60°-80°)	10924.5	26.5			G4/12000
FVH (80°-90°)	376.8	0.9			G3/500
BL (0°-30°)	1443.7	3.5	B3/2500		
BM (30°-60°)	2291.0	5.6	B2/2500		
BH (60°-80°)	1913.3	4.6	B3/2500		G3/2500
BVH (80°-90°)	214.6	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°	4217.3	4217.3	4217.3	4217.3	4217.3	4217.3	4217.3	4217.3	4217.3	4217.3	4217.3
2.5°	5851.6	5781.1	5710.7	5560.4	5508.7	5367.8	5109.5	4823.1	4588.3	4555.4	4391.0
5°	7260.4	7157.1	7133.6	7049.1	6781.4	6509.0	6086.4	5626.1	5053.2	5095.5	4531.9
7.5°	8317.1	8256.1	8129.3	8049.4	7889.7	7528.1	7091.4	6480.9	5752.9	5612.0	4846.6
10°	9115.5	9030.9	9026.2	8955.8	8871.3	8500.3	8166.8	7345.0	6410.4	6217.9	5231.7
12.5°	9519.4	9505.3	9754.2	9754.2	9721.3	9566.3	8993.4	8242.0	7035.0	6969.3	5677.8
15°	9956.1	9838.7	10054.7	10219.1	10303.6	10383.5	9909.1	9115.5	7833.4	7706.6	6156.8
17.5°	9956.1	9946.7	10162.7	10435.1	10876.6	10979.9	10721.6	9918.5	8495.6	8401.6	6682.8
20°	9787.0	9923.2	10073.5	10439.8	10918.8	11336.8	11412.0	10740.4	9228.2	9153.0	7279.2
22.5°	10576.0	10444.5	10599.5	10740.4	11111.4	11745.4	11952.0	11463.6	9998.4	9711.9	7819.3
25°	11900.4	11811.1	11698.4	11491.8	11646.8	11923.8	12238.5	11999.0	10655.9	10336.5	8340.6
27.5°	13191.8	13196.5	12952.3	12501.5	12168.1	12224.4	12595.4	12468.6	11210.0	11069.1	8697.5
30°	15028.1	14915.4	14643.0	14032.5	13379.7	12844.3	12783.3	12905.4	11914.5	11642.1	9209.4
32.5°	16404.1	16427.6	16042.5	15164.3	14272.0	13835.2	13299.9	13351.5	12360.6	12158.7	9618.0
35°	17517.1	17488.9	17216.5	16488.6	15432.0	14906.0	14182.8	13886.9	13398.5	13079.1	10242.6
37.5°	18719.4	18489.2	18047.8	17225.9	16549.7	15821.8	15117.3	14450.4	14088.8	13703.7	10778.0
40°	19203.1	19203.1	18611.3	18235.6	17432.6	16883.1	16427.6	15192.5	14929.5	14854.3	11463.6
42.5°	18860.2	19071.6	18827.4	18400.0	18071.3	17376.2	17254.1	15962.6	15967.3	15817.1	12285.5
45°	18827.4	18536.2	18334.3	18442.3	18287.3	18249.7	18559.7	17028.7	17056.9	17038.1	13389.1
47.5°	17883.4	17751.9	18052.5	18230.9	18357.7	18940.1	19832.4	18301.4	18503.3	18362.4	14661.8
50°	16944.2	16920.7	17108.5	17756.6	18306.1	19264.1	21044.0	20264.4	20926.6	20917.2	16967.6
52.5°	14370.6	14619.5	15356.8	16728.1	18085.4	19705.6	21959.8	22772.2	24035.5	24378.4	18879.0
55°	11909.8	11778.3	12867.8	14859.0	17122.6	19879.3	22983.6	24279.7	26139.5	26388.4	20842.1
57.5°	9265.8	9510.0	10369.4	12280.8	15131.4	19019.9	23735.0	25768.5	28515.8	28708.3	23119.8
60°	6912.9	6945.8	7889.7	9430.1	12482.7	17080.4	23979.2	27294.8	31239.6	31789.1	25505.5
62.5°	4348.8	4546.0	5264.5	6781.4	9397.2	14365.9	22885.0	28219.9	34095.0	34240.5	27910.0
65°	2343.4	2470.2	3010.3	3963.7	6565.4	10867.2	19982.7	27665.8	35438.1	36302.2	28980.7
67°	1732.9	1756.4	2005.3	2531.3	4391.0	8180.9	16662.4	25660.5	36048.6	36677.9	29023.0
67.5°	1624.9	1657.8	1855.0	2273.0	3893.2	7532.8	15793.6	24946.6	35776.2	36452.5	28694.2
70°	1390.1	1399.5	1446.5	1563.9	2183.8	4531.9	10754.5	20442.9	33160.4	33808.5	26388.4
72.5°	1235.1	1244.5	1263.3	1286.8	1479.3	2620.5	6541.9	15732.5	28821.0	29854.2	22767.5
75°	1084.8	1117.7	1127.1	1108.3	1258.6	1704.7	3479.9	11562.2	23509.6	24012.1	17705.0
77.5°	920.5	934.6	953.3	972.1	1122.4	1272.7	1671.9	7805.2	16136.4	15831.1	9575.7
80°	774.9	779.6	793.7	807.8	972.1	972.1	948.6	4217.3	7049.1	6739.2	3235.7
82.5°	554.2	587.0	619.9	657.5	807.8	652.8	619.9	1878.5	2230.7	2122.7	1094.2
85°	216.0	263.0	408.6	450.8	511.9	352.2	413.3	812.5	929.9	920.5	408.6
87.5°	37.6	42.3	112.7	173.8	187.9	122.1	197.2	291.2	347.5	375.7	150.3
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°	4217.3	4217.3	4217.3	4217.3	4217.3	4217.3	4217.3	4217.3	4217.3	4217.3	4217.3
2.5°	4254.8	4109.2	3935.5	3761.7	3649.0	3470.5	3456.5	3348.4	3334.4	3296.8	3315.6
5°	4287.7	4113.9	3761.7	3484.6	3357.8	3254.5	3278.0	3231.0	3216.9	3193.5	3155.9
7.5°	4546.0	4203.2	3677.2	3437.7	3343.7	3296.8	3296.8	3240.4	3198.2	3226.3	3254.5
10°	4715.1	4245.4	3742.9	3503.4	3428.3	3325.0	3362.5	3292.1	3315.6	3259.2	3259.2
12.5°	4987.4	4484.9	3879.1	3602.0	3479.9	3386.0	3423.6	3343.7	3325.0	3329.7	3315.6
15°	5353.8	4644.6	3940.2	3658.4	3573.9	3456.5	3428.3	3357.8	3287.4	3263.9	3292.1
17.5°	5696.6	4841.9	3982.4	3691.3	3555.1	3423.6	3390.7	3301.5	3278.0	3207.6	3151.2
20°	6105.2	5076.7	4038.8	3719.5	3484.6	3353.1	3268.6	3179.4	3099.5	3057.3	3076.1
22.5°	6377.5	5198.8	4067.0	3663.1	3381.3	3259.2	3080.8	3019.7	2907.0	2860.0	2822.5
25°	6823.7	5349.1	3996.5	3508.1	3198.2	3000.9	2841.2	2756.7	2676.9	2615.8	2597.0
27.5°	6936.4	5461.8	3832.2	3245.1	2907.0	2700.4	2564.2	2460.8	2409.2	2315.3	2296.5
30°	7265.1	5349.1	3588.0	2925.8	2629.9	2418.6	2282.4	2207.2	2085.1	2061.7	2010.0
32.5°	7476.5	5381.9	3278.0	2615.8	2310.6	2122.7	2033.5	1958.3	1925.5	1812.8	1784.6
35°	7828.7	5269.2	2963.4	2329.4	2047.6	1902.0	1826.9	1803.4	1695.4	1643.7	1596.7
37.5°	8054.1	5203.5	2648.7	2005.3	1761.1	1700.1	1723.5	1624.9	1493.4	1394.8	1361.9
40°	8448.6	5180.0	2291.8	1737.6	1563.9	1549.8	1624.9	1437.1	1197.6	1113.0	1066.1
42.5°	9016.8	5020.3	2014.7	1498.1	1408.9	1469.9	1484.0	1197.6	1061.4	990.9	958.0
45°	9561.6	5053.2	1742.3	1239.8	1225.7	1315.0	1282.1	1014.4	934.6	882.9	911.1
47.5°	10608.9	5217.6	1474.6	1033.2	1103.6	1188.2	995.6	906.4	831.2	793.7	798.4
50°	12229.1	5377.2	1239.8	944.0	1042.6	1075.4	854.7	821.8	817.2	742.0	737.3
52.5°	13201.2	5316.2	1197.6	1056.7	1117.7	1075.4	929.9	906.4	868.8	835.9	798.4
55°	14746.3	5494.6	1286.8	1235.1	1268.0	1033.2	1042.6	1033.2	1005.0	920.5	944.0
57.5°	15976.7	5612.0	1404.2	1380.7	1361.9	1075.4	1089.5	1094.2	1075.4	1037.9	1070.8
60°	17667.4	5846.9	1526.3	1531.0	1535.7	1169.4	1192.9	1221.0	1216.3	1202.2	1211.6
62.5°	18705.3	5738.8	1662.5	1737.6	1714.1	1361.9	1357.2	1376.0	1376.0	1399.5	1413.6
65°	18550.3	5339.7	1732.9	1920.8	1798.7	1502.8	1502.8	1512.2	1516.9	1563.9	1568.6
67°	17620.4	4625.8	1695.4	1949.0	1798.7	1559.2	1559.2	1568.6	1535.7	1657.8	1620.2
67.5°	17188.4	4414.5	1662.5	1925.5	1784.6	1554.5	1554.5	1559.2	1531.0	1648.4	1610.8
70°	14948.2	3278.0	1432.4	1704.7	1653.1	1512.2	1512.2	1484.0	1460.5	1615.5	1582.6
72.5°	12759.8	2381.0	1150.6	1451.1	1493.4	1455.8	1465.2	1394.8	1329.0	1437.1	1408.9
75°	9773.0	1751.7	897.0	1117.7	1263.3	1361.9	1423.0	1244.5	1160.0	1188.2	1136.5
77.5°	5452.4	1141.2	709.1	826.5	962.7	1268.0	1366.6	1122.4	948.6	915.8	915.8
80°	1850.3	666.9	521.3	615.2	662.2	1122.4	1277.4	911.1	746.7	713.8	690.4
82.5°	699.7	408.6	356.9	422.7	422.7	887.6	1042.6	699.7	563.6	727.9	742.0
85°	319.3	244.2	234.8	244.2	244.2	544.8	737.3	455.5	507.2	436.8	385.1
87.5°	126.8	117.4	108.0	103.3	84.5	93.9	253.6	122.1	230.1	61.1	56.4
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)