

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: P476928

Luminaire Tested: **IFLD-M-SA4A-730-U-T2R**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P476928
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4A-730-U-T2R
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens
Light Source: (64) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

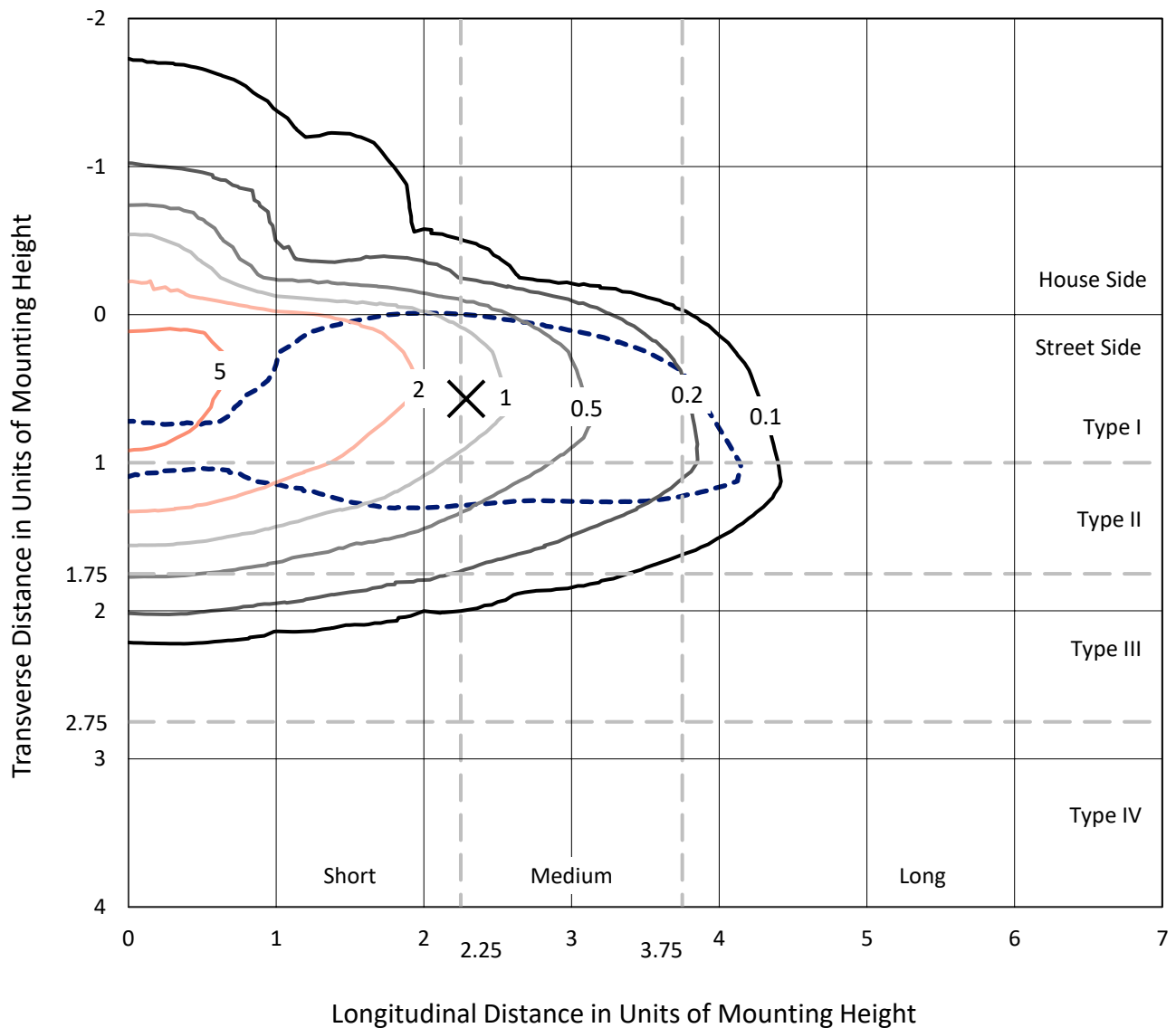
Lumens per Lamp: N/A
Luminaire Lumens: 16910.9 lumens
Efficiency: N/A
Efficacy: 131.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

Input Watts (W): 128.6
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

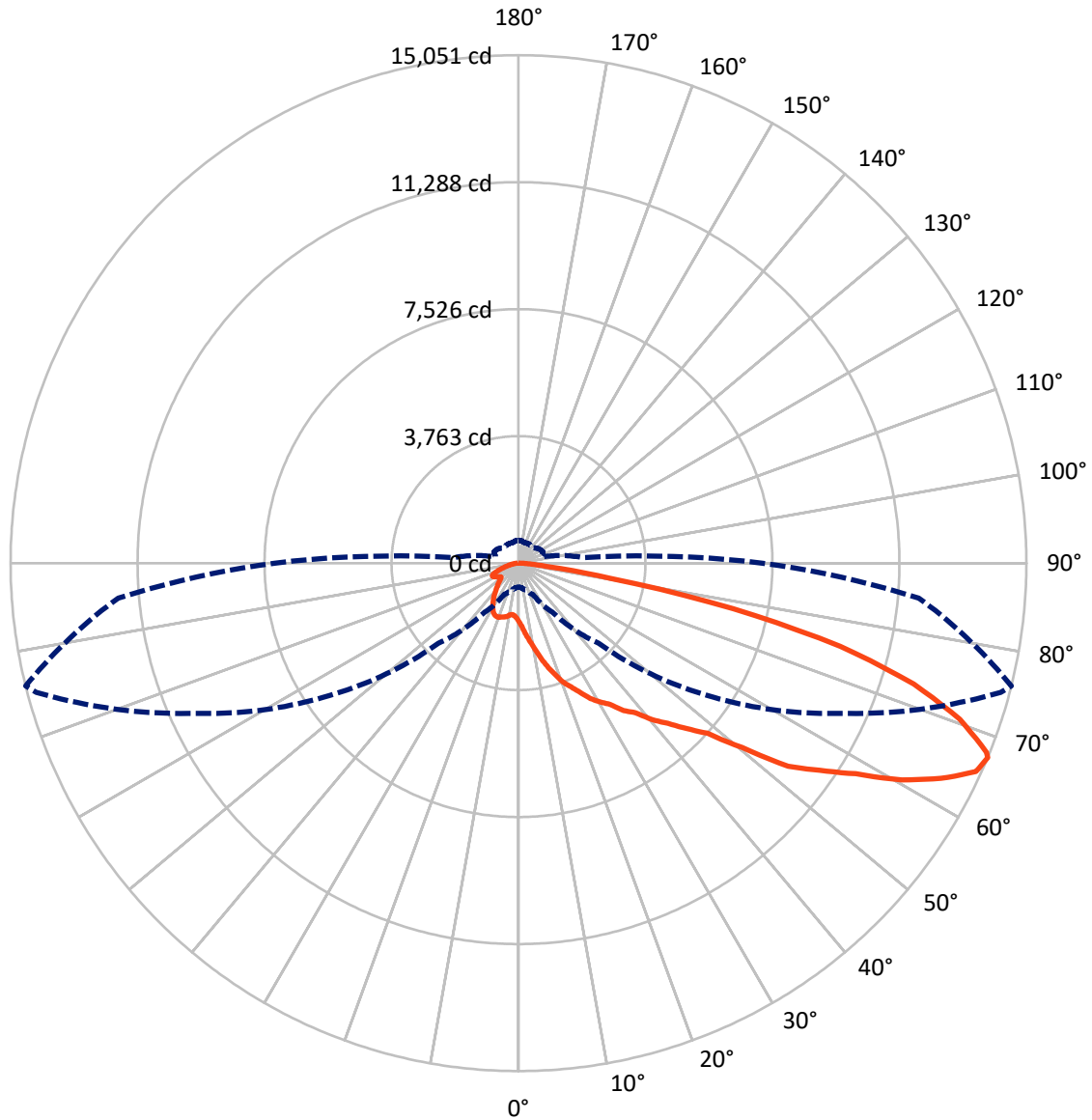
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.5 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	2405.8	0.0	2405.8
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	14505.1	0.0	14505.1
	% Fixture	85.8	0.0	85.8
Total	Lumens	16910.9	0.0	16910.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	200.5	1.2
10°-20°	751.8	4.4
20°-30°	1397.8	8.3
30°-40°	2215.8	13.1
40°-50°	3064.6	18.1
50°-60°	3769.7	22.3
60°-70°	3507.9	20.7
70°-80°	1760.2	10.4
80°-90°	242.7	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°	16910.9	100.0
0°-180°	16910.9	100.0

Coefficient of Utilization



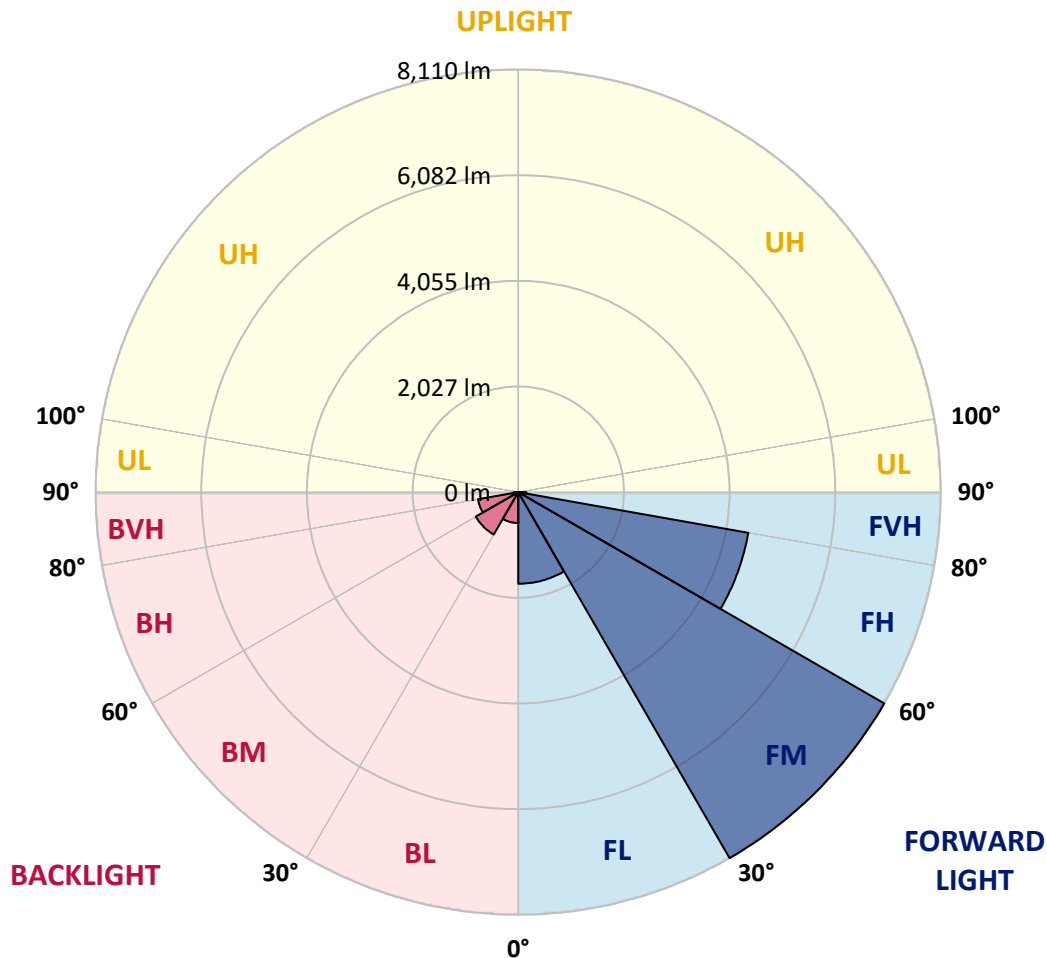
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1757.6	10.4			
FM (30°-60°)	8109.9	48.0			
FH (60°-80°)	4482.9	26.5			G2/5000
FVH (80°-90°)	154.6	0.9			G2/225
BL (0°-30°)	592.4	3.5	B2/1000		
BM (30°-60°)	940.1	5.6	B1/1000		
BH (60°-80°)	785.1	4.6	B2/1000		G2/1000
BVH (80°-90°)	88.1	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	1730.6	1730.6	1730.6	1730.6	1730.6	1730.6	1730.6	1730.6	1730.6	1730.6	1730.6
2.5°	2401.2	2372.3	2343.4	2281.7	2260.5	2202.7	2096.7	1979.2	1882.8	1869.3	1801.9
5°	2979.4	2937.0	2927.3	2892.6	2782.8	2671.0	2497.6	2308.7	2073.6	2090.9	1859.7
7.5°	3413.0	3387.9	3335.9	3303.1	3237.6	3089.2	2910.0	2659.5	2360.7	2302.9	1988.8
10°	3740.6	3705.9	3704.0	3675.1	3640.4	3488.1	3351.3	3014.0	2630.5	2551.5	2146.8
12.5°	3906.3	3900.5	4002.7	4002.7	3989.2	3925.6	3690.5	3382.1	2886.9	2859.9	2329.9
15°	4085.5	4037.4	4126.0	4193.5	4228.1	4260.9	4066.3	3740.6	3214.5	3162.4	2526.5
17.5°	4085.5	4081.7	4170.3	4282.1	4463.3	4505.7	4399.7	4070.1	3486.2	3447.7	2742.3
20°	4016.2	4072.0	4133.7	4284.0	4480.6	4652.1	4683.0	4407.4	3786.8	3756.0	2987.1
22.5°	4339.9	4286.0	4349.6	4407.4	4559.6	4819.8	4904.6	4704.1	4102.9	3985.3	3208.7
25°	4883.4	4846.8	4800.5	4715.7	4779.3	4893.0	5022.1	4923.8	4372.7	4241.6	3422.6
27.5°	5413.3	5415.3	5315.1	5130.0	4993.2	5016.3	5168.6	5116.6	4600.1	4542.3	3569.1
30°	6166.8	6120.6	6008.8	5758.3	5490.4	5270.7	5245.7	5295.8	4889.2	4777.4	3779.1
32.5°	6731.5	6741.1	6583.1	6222.7	5856.6	5677.4	5457.7	5478.9	5072.2	4989.4	3946.8
35°	7188.2	7176.7	7064.9	6766.2	6332.6	6116.7	5820.0	5698.6	5498.1	5367.1	4203.1
37.5°	7681.6	7587.1	7406.0	7068.7	6791.2	6492.5	6203.5	5929.8	5781.4	5623.4	4422.8
40°	7880.1	7880.1	7637.3	7483.1	7153.5	6928.1	6741.1	6234.3	6126.4	6095.5	4704.1
42.5°	7739.4	7826.1	7725.9	7550.5	7415.6	7130.4	7080.3	6550.3	6552.3	6490.6	5041.4
45°	7725.9	7606.4	7523.6	7567.9	7504.3	7488.9	7616.1	6987.8	6999.4	6991.7	5494.3
47.5°	7338.5	7284.6	7407.9	7481.2	7533.2	7772.2	8138.3	7510.1	7592.9	7535.1	6016.5
50°	6953.1	6943.5	7020.6	7286.5	7512.0	7905.1	8635.5	8315.6	8587.3	8583.5	6962.8
52.5°	5897.0	5999.2	6301.7	6864.5	7421.4	8086.3	9011.3	9344.7	9863.1	10003.8	7747.1
55°	4887.2	4833.3	5280.4	6097.5	7026.4	8157.6	9431.4	9963.3	10726.5	10828.6	8552.6
57.5°	3802.2	3902.5	4255.1	5039.5	6209.2	7804.9	9739.8	10574.2	11701.6	11780.6	9487.3
60°	2836.7	2850.2	3237.6	3869.7	5122.3	7009.0	9840.0	11200.5	12819.3	13044.8	10466.3
62.5°	1784.5	1865.5	2160.3	2782.8	3856.2	5895.1	9391.0	11580.2	13991.0	14050.8	11453.0
65°	961.6	1013.7	1235.3	1626.5	2694.1	4459.4	8200.0	11352.8	14542.2	14896.8	11892.4
67°	711.1	720.8	822.9	1038.7	1801.9	3357.1	6837.5	10529.9	14792.7	15051.0	11909.7
67.5°	666.8	680.3	761.2	932.7	1597.6	3091.1	6481.0	10237.0	14681.0	14958.5	11774.8
70°	570.4	574.3	593.6	641.7	896.1	1859.7	4413.2	8388.8	13607.5	13873.5	10828.6
72.5°	506.8	510.7	518.4	528.0	607.0	1075.3	2684.5	6455.9	11826.9	12250.8	9342.8
75°	445.2	458.7	462.5	454.8	516.5	699.6	1428.0	4744.6	9647.3	9853.5	7265.3
77.5°	377.7	383.5	391.2	398.9	460.6	522.3	686.1	3202.9	6621.7	6496.4	3929.4
80°	318.0	319.9	325.7	331.5	398.9	398.9	389.3	1730.6	2892.6	2765.4	1327.8
82.5°	227.4	240.9	254.4	269.8	331.5	267.9	254.4	770.9	915.4	871.1	449.0
85°	88.6	107.9	167.7	185.0	210.1	144.5	169.6	333.4	381.6	377.7	167.7
87.5°	15.4	17.3	46.3	71.3	77.1	50.1	80.9	119.5	142.6	154.2	61.7
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°	1730.6	1730.6	1730.6	1730.6	1730.6	1730.6	1730.6	1730.6	1730.6	1730.6	1730.6
2.5°	1746.0	1686.2	1614.9	1543.6	1497.4	1424.2	1418.4	1374.1	1368.3	1352.9	1360.6
5°	1759.5	1688.2	1543.6	1429.9	1377.9	1335.5	1345.1	1325.9	1320.1	1310.5	1295.0
7.5°	1865.5	1724.8	1509.0	1410.7	1372.1	1352.9	1352.9	1329.7	1312.4	1323.9	1335.5
10°	1934.8	1742.1	1535.9	1437.6	1406.8	1364.4	1379.8	1350.9	1360.6	1337.4	1337.4
12.5°	2046.6	1840.4	1591.8	1478.1	1428.0	1389.5	1404.9	1372.1	1364.4	1366.3	1360.6
15°	2196.9	1905.9	1616.9	1501.2	1466.6	1418.4	1406.8	1377.9	1349.0	1339.4	1350.9
17.5°	2337.6	1986.9	1634.2	1514.7	1458.8	1404.9	1391.4	1354.8	1345.1	1316.2	1293.1
20°	2505.3	2083.2	1657.3	1526.3	1429.9	1376.0	1341.3	1304.7	1271.9	1254.6	1262.3
22.5°	2617.1	2133.3	1668.9	1503.2	1387.5	1337.4	1264.2	1239.2	1192.9	1173.6	1158.2
25°	2800.1	2195.0	1640.0	1439.6	1312.4	1231.4	1165.9	1131.2	1098.5	1073.4	1065.7
27.5°	2846.4	2241.3	1572.5	1331.7	1192.9	1108.1	1052.2	1009.8	988.6	950.1	942.4
30°	2981.3	2195.0	1472.3	1200.6	1079.2	992.5	936.6	905.8	855.7	846.0	824.8
32.5°	3068.0	2208.5	1345.1	1073.4	948.2	871.1	834.5	803.6	790.1	743.9	732.3
35°	3212.5	2162.3	1216.0	955.9	840.2	780.5	749.7	740.0	695.7	674.5	655.2
37.5°	3305.0	2135.3	1086.9	822.9	722.7	697.6	707.3	666.8	612.8	572.4	558.9
40°	3466.9	2125.6	940.4	713.0	641.7	636.0	666.8	589.7	491.4	456.7	437.5
42.5°	3700.1	2060.1	826.7	614.8	578.1	603.2	609.0	491.4	435.5	406.6	393.1
45°	3923.7	2073.6	715.0	508.8	503.0	539.6	526.1	416.3	383.5	362.3	373.9
47.5°	4353.4	2141.1	605.1	424.0	452.9	487.6	408.6	371.9	341.1	325.7	327.6
50°	5018.3	2206.6	508.8	387.4	427.8	441.3	350.7	337.2	335.3	304.5	302.6
52.5°	5417.2	2181.5	491.4	433.6	458.7	441.3	381.6	371.9	356.5	343.0	327.6
55°	6051.2	2254.8	528.0	506.8	520.3	424.0	427.8	424.0	412.4	377.7	387.4
57.5°	6556.1	2302.9	576.2	566.6	558.9	441.3	447.1	449.0	441.3	425.9	439.4
60°	7249.9	2399.3	626.3	628.2	630.2	479.9	489.5	501.1	499.1	493.3	497.2
62.5°	7675.8	2355.0	682.2	713.0	703.4	558.9	556.9	564.7	564.7	574.3	580.1
65°	7612.2	2191.2	711.1	788.2	738.1	616.7	616.7	620.5	622.5	641.7	643.7
67°	7230.6	1898.2	695.7	799.8	738.1	639.8	639.8	643.7	630.2	680.3	664.9
67.5°	7053.3	1811.5	682.2	790.1	732.3	637.9	637.9	639.8	628.2	676.4	661.0
70°	6134.1	1345.1	587.8	699.6	678.4	620.5	620.5	609.0	599.3	662.9	649.4
72.5°	5236.0	977.1	472.1	595.5	612.8	597.4	601.3	572.4	545.4	589.7	578.1
75°	4010.4	718.8	368.1	458.7	518.4	558.9	583.9	510.7	476.0	487.6	466.4
77.5°	2237.4	468.3	291.0	339.2	395.1	520.3	560.8	460.6	389.3	375.8	375.8
80°	759.3	273.7	213.9	252.5	271.7	460.6	524.2	373.9	306.4	292.9	283.3
82.5°	287.1	167.7	146.5	173.4	173.4	364.2	427.8	287.1	231.3	298.7	304.5
85°	131.0	100.2	96.4	100.2	100.2	223.5	302.6	186.9	208.1	179.2	158.0
87.5°	52.0	48.2	44.3	42.4	34.7	38.5	104.1	50.1	94.4	25.1	23.1
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)