

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: P476868

Luminaire Tested: **IFLD-S-SA2E-727-U-T2R**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P476868
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2E-727-U-T2R
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens
Light Source: (32) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

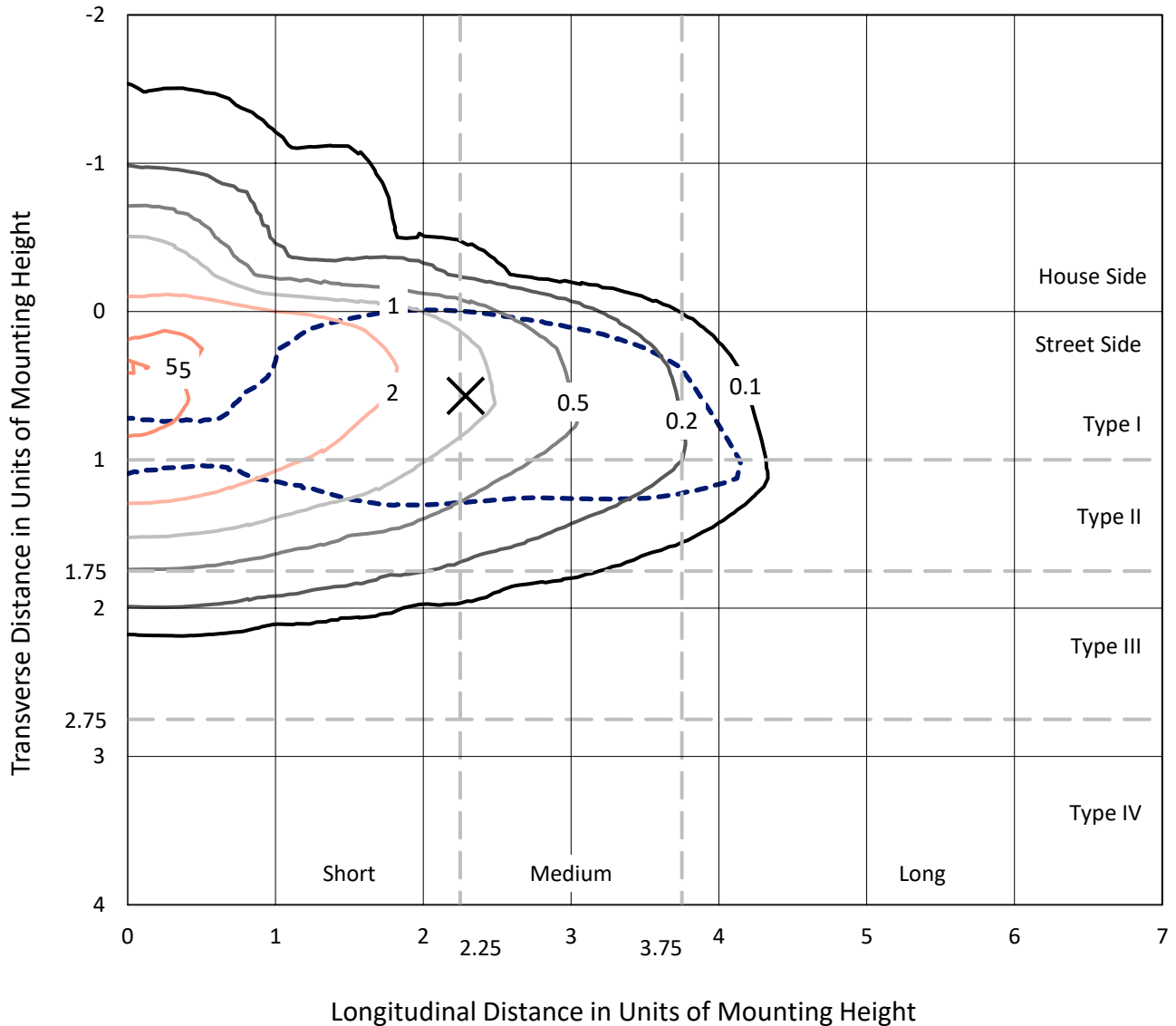
Lumens per Lamp: N/A
Luminaire Lumens: 15221.6 lumens
Efficiency: N/A
Efficacy: 97.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

Input Watts (W): 156.2
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

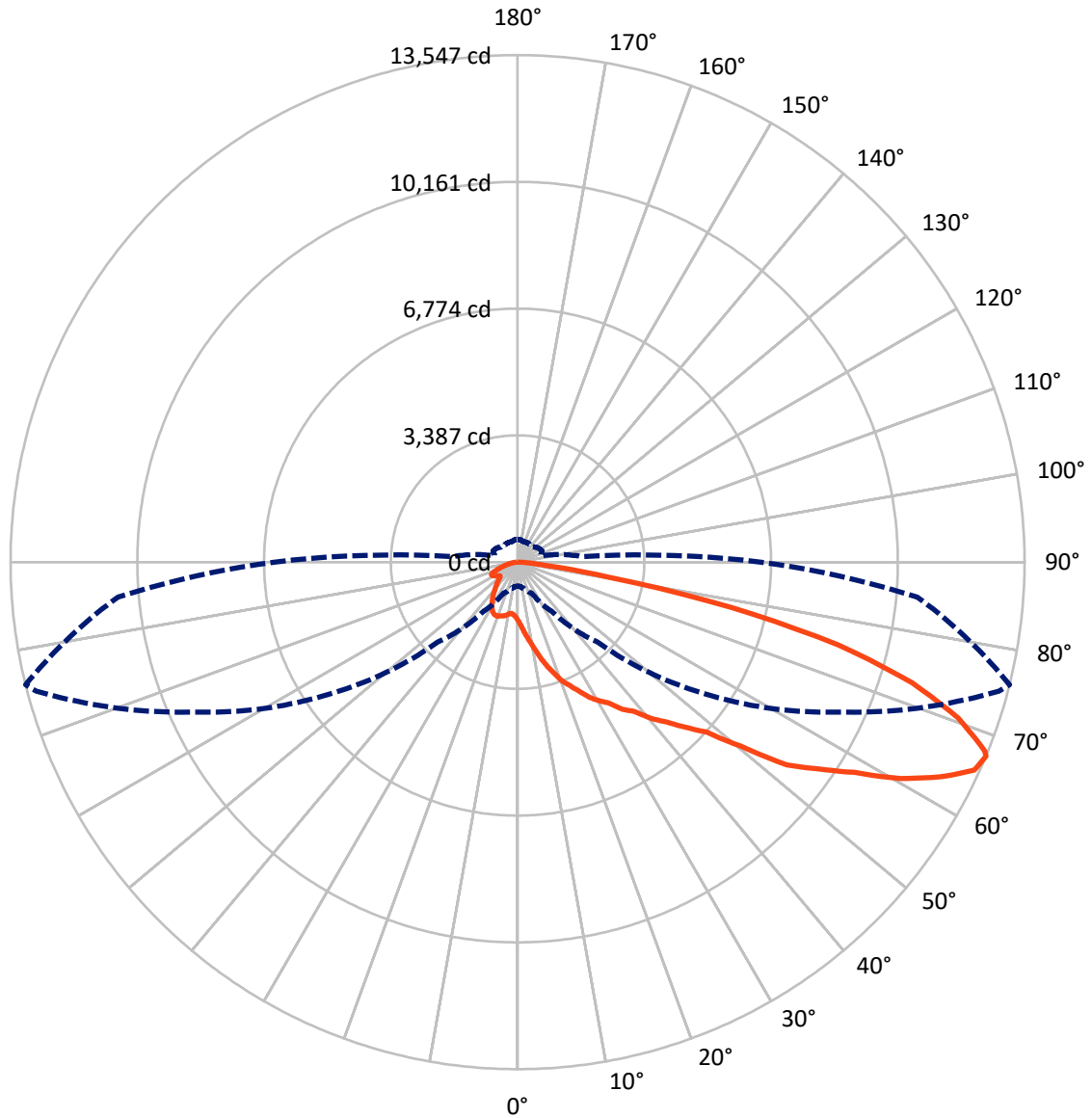
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.8 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	2165.5	0.0	2165.5
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	13056.1	0.0	13056.1
	% Fixture	85.8	0.0	85.8
Total	Lumens	15221.6	0.0	15221.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	180.4	1.2
10°-20°	676.7	4.4
20°-30°	1258.1	8.3
30°-40°	1994.4	13.1
40°-50°	2758.5	18.1
50°-60°	3393.1	22.3
60°-70°	3157.4	20.7
70°-80°	1584.4	10.4
80°-90°	218.5	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°	15221.6	100.0
0°-180°	15221.6	100.0

Coefficient of Utilization



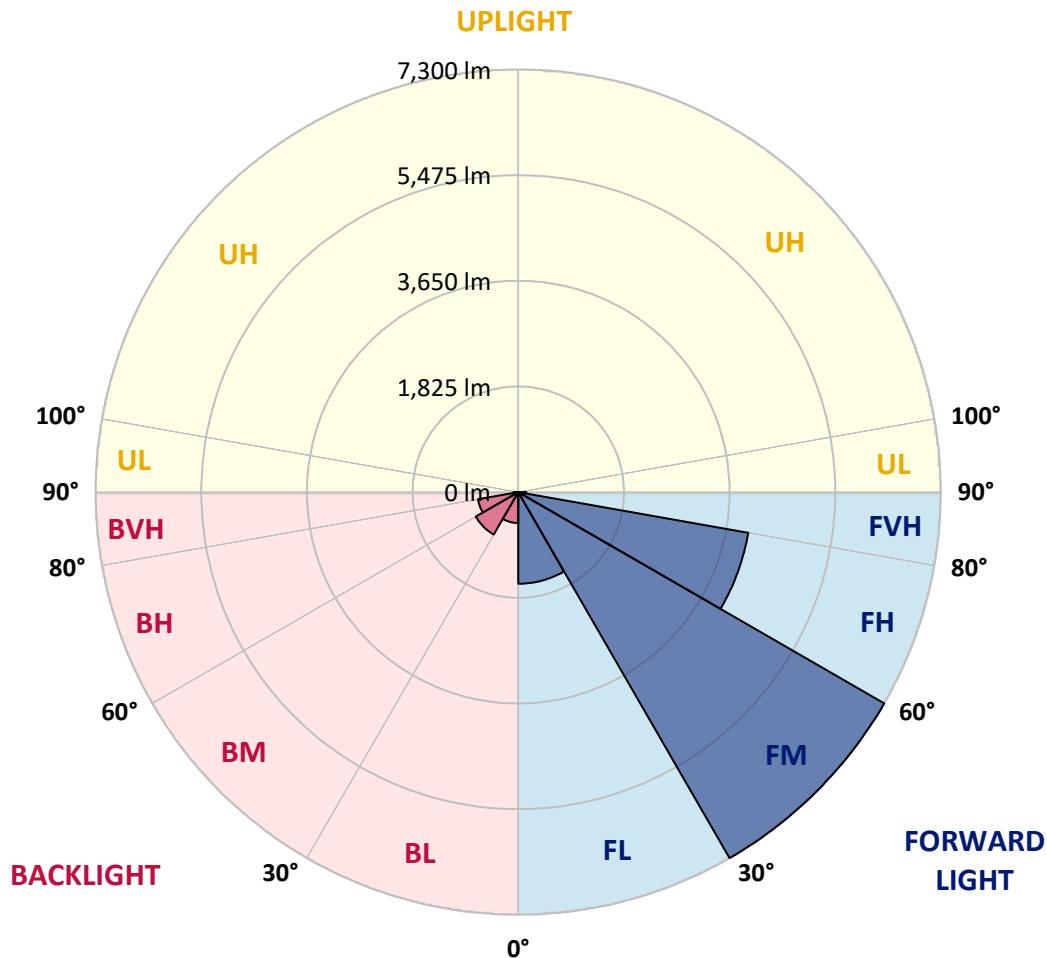
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1582.0	10.4			
FM (30°-60°)	7299.8	48.0			
FH (60°-80°)	4035.1	26.5			G2/5000
FVH (80°-90°)	139.2	0.9			G2/225
BL (0°-30°)	533.3	3.5	B2/1000		
BM (30°-60°)	846.2	5.6	B1/1000		
BH (60°-80°)	706.7	4.6	B2/1000		G2/1000
BVH (80°-90°)	79.3	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°	1557.7	1557.7	1557.7	1557.7	1557.7	1557.7	1557.7	1557.7	1557.7	1557.7	1557.7
2.5°	2161.3	2135.3	2109.3	2053.8	2034.7	1982.7	1887.3	1781.5	1694.7	1682.6	1621.9
5°	2681.7	2643.6	2634.9	2603.7	2504.8	2404.2	2248.1	2078.1	1866.5	1882.1	1673.9
7.5°	3072.0	3049.5	3002.6	2973.2	2914.2	2780.6	2619.3	2393.8	2124.9	2072.9	1790.1
10°	3366.9	3335.7	3334.0	3307.9	3276.7	3139.7	3016.5	2713.0	2367.8	2296.6	1932.4
12.5°	3516.1	3510.9	3602.8	3602.8	3590.7	3533.4	3321.8	3044.3	2598.5	2574.2	2097.2
15°	3677.4	3634.0	3713.8	3774.5	3805.8	3835.3	3660.1	3366.9	2893.4	2846.5	2274.1
17.5°	3677.4	3673.9	3753.7	3854.3	4017.4	4055.6	3960.2	3663.5	3137.9	3103.2	2468.4
20°	3615.0	3665.3	3720.8	3856.1	4033.0	4187.4	4215.1	3967.1	3408.5	3380.8	2688.7
22.5°	3906.4	3857.8	3915.1	3967.1	4104.1	4338.3	4414.6	4234.2	3693.0	3587.2	2888.2
25°	4395.5	4362.6	4321.0	4244.6	4301.9	4404.2	4520.4	4432.0	3935.9	3817.9	3080.7
27.5°	4872.6	4874.3	4784.1	4617.6	4494.4	4515.2	4652.3	4605.4	4140.6	4088.5	3212.5
30°	5550.8	5509.2	5408.6	5183.1	4942.0	4744.2	4721.7	4766.8	4400.7	4300.1	3401.6
32.5°	6059.1	6067.7	5925.5	5601.1	5271.5	5110.2	4912.5	4931.5	4565.5	4490.9	3552.5
35°	6470.2	6459.8	6359.1	6090.3	5700.0	5505.7	5238.6	5129.3	4948.9	4830.9	3783.2
37.5°	6914.2	6829.2	6666.2	6362.6	6112.8	5844.0	5583.8	5337.4	5203.9	5061.6	3981.0
40°	7092.9	7092.9	6874.3	6735.6	6438.9	6236.0	6067.7	5611.5	5514.4	5486.6	4234.2
42.5°	6966.3	7044.3	6954.1	6796.3	6674.8	6418.1	6373.0	5896.0	5897.7	5842.2	4537.8
45°	6954.1	6846.6	6772.0	6811.9	6754.6	6740.8	6855.2	6289.8	6300.2	6293.2	4945.4
47.5°	6605.5	6556.9	6667.9	6733.8	6780.7	6995.8	7325.3	6759.8	6834.4	6782.4	5415.5
50°	6258.5	6249.9	6319.2	6558.6	6761.6	7115.4	7772.9	7484.9	7729.5	7726.0	6267.2
52.5°	5308.0	5399.9	5672.2	6178.7	6680.0	7278.5	8111.1	8411.2	8877.8	9004.4	6973.2
55°	4399.0	4350.4	4752.9	5488.4	6324.4	7342.7	8489.3	8968.0	9654.9	9746.9	7698.3
57.5°	3422.4	3512.6	3830.1	4536.0	5589.0	7025.2	8766.8	9517.9	10532.7	10603.8	8539.6
60°	2553.4	2565.5	2914.2	3483.1	4610.6	6308.8	8857.0	10081.7	11538.7	11741.7	9420.8
62.5°	1606.3	1679.1	1944.5	2504.8	3471.0	5306.2	8452.8	10423.4	12593.4	12647.2	10308.9
65°	865.6	912.4	1111.9	1464.0	2425.0	4013.9	7380.8	10218.7	13089.5	13408.7	10704.4
67°	640.1	648.8	740.7	935.0	1621.9	3021.7	6154.5	9478.0	13315.0	13547.4	10720.0
67.5°	600.2	612.3	685.2	839.6	1438.0	2782.3	5833.6	9214.3	13214.4	13464.2	10598.6
70°	513.4	516.9	534.3	577.6	806.6	1673.9	3972.3	7550.8	12248.2	12487.6	9746.9
72.5°	456.2	459.7	466.6	475.3	546.4	967.9	2416.3	5811.0	10645.4	11027.0	8409.5
75°	400.7	412.8	416.3	409.4	464.9	629.7	1285.4	4270.7	8683.5	8869.1	6539.5
77.5°	340.0	345.2	352.1	359.1	414.6	470.1	617.5	2883.0	5960.2	5847.4	3536.9
80°	286.2	287.9	293.2	298.4	359.1	359.1	350.4	1557.7	2603.7	2489.2	1195.2
82.5°	204.7	216.8	229.0	242.8	298.4	241.1	229.0	693.9	823.9	784.1	404.2
85°	79.8	97.1	150.9	166.5	189.1	130.1	152.6	300.1	343.5	340.0	150.9
87.5°	13.9	15.6	41.6	64.2	69.4	45.1	72.9	107.5	128.4	138.8	55.5
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°	1557.7	1557.7	1557.7	1557.7	1557.7	1557.7	1557.7	1557.7	1557.7	1557.7	1557.7
2.5°	1571.6	1517.8	1453.6	1389.4	1347.8	1281.9	1276.7	1236.8	1231.6	1217.7	1224.6
5°	1583.7	1519.5	1389.4	1287.1	1240.3	1202.1	1210.8	1193.4	1188.2	1179.5	1165.7
7.5°	1679.1	1552.5	1358.2	1269.7	1235.1	1217.7	1217.7	1196.9	1181.3	1191.7	1202.1
10°	1741.6	1568.1	1382.5	1294.0	1266.3	1228.1	1242.0	1216.0	1224.6	1203.8	1203.8
12.5°	1842.2	1656.6	1432.8	1330.5	1285.4	1250.7	1264.5	1235.1	1228.1	1229.9	1224.6
15°	1977.5	1715.5	1455.4	1351.3	1320.1	1276.7	1266.3	1240.3	1214.2	1205.6	1216.0
17.5°	2104.1	1788.4	1471.0	1363.4	1313.1	1264.5	1252.4	1219.4	1210.8	1184.8	1163.9
20°	2255.0	1875.1	1491.8	1373.8	1287.1	1238.5	1207.3	1174.3	1144.9	1129.2	1136.2
22.5°	2355.6	1920.2	1502.2	1353.0	1248.9	1203.8	1137.9	1115.4	1073.7	1056.4	1042.5
25°	2520.4	1975.7	1476.2	1295.8	1181.3	1108.4	1049.4	1018.2	988.7	966.2	959.2
27.5°	2562.0	2017.4	1415.5	1198.6	1073.7	997.4	947.1	908.9	889.9	855.2	848.2
30°	2683.5	1975.7	1325.3	1080.7	971.4	893.3	843.0	815.3	770.2	761.5	742.4
32.5°	2761.5	1987.9	1210.8	966.2	853.4	784.1	751.1	723.3	711.2	669.6	659.2
35°	2891.6	1946.3	1094.5	860.4	756.3	702.5	674.8	666.1	626.2	607.1	589.8
37.5°	2974.9	1922.0	978.3	740.7	650.5	627.9	636.6	600.2	551.6	515.2	503.0
40°	3120.6	1913.3	846.5	641.8	577.6	572.4	600.2	530.8	442.3	411.1	393.8
42.5°	3330.5	1854.3	744.2	553.3	520.4	542.9	548.1	442.3	392.0	366.0	353.9
45°	3531.7	1866.5	643.5	457.9	452.7	485.7	473.6	374.7	345.2	326.1	336.5
47.5°	3918.5	1927.2	544.7	381.6	407.6	438.9	367.7	334.8	307.0	293.2	294.9
50°	4517.0	1986.1	457.9	348.7	385.1	397.2	315.7	303.6	301.8	274.1	272.3
52.5°	4876.0	1963.6	442.3	390.3	412.8	397.2	343.5	334.8	320.9	308.8	294.9
55°	5446.7	2029.5	475.3	456.2	468.3	381.6	385.1	381.6	371.2	340.0	348.7
57.5°	5901.2	2072.9	518.7	510.0	503.0	397.2	402.4	404.2	397.2	383.4	395.5
60°	6525.7	2159.6	563.8	565.5	567.2	431.9	440.6	451.0	449.3	444.1	447.5
62.5°	6909.0	2119.7	614.1	641.8	633.1	503.0	501.3	508.2	508.2	516.9	522.1
65°	6851.8	1972.3	640.1	709.5	664.4	555.1	555.1	558.5	560.3	577.6	579.4
67°	6508.3	1708.6	626.2	719.9	664.4	575.9	575.9	579.4	567.2	612.3	598.4
67.5°	6348.7	1630.5	614.1	711.2	659.2	574.2	574.2	575.9	565.5	608.9	595.0
70°	5521.3	1210.8	529.1	629.7	610.6	558.5	558.5	548.1	539.5	596.7	584.6
72.5°	4713.0	879.5	425.0	536.0	551.6	537.7	541.2	515.2	490.9	530.8	520.4
75°	3609.8	647.0	331.3	412.8	466.6	503.0	525.6	459.7	428.5	438.9	419.8
77.5°	2013.9	421.5	261.9	305.3	355.6	468.3	504.8	414.6	350.4	338.3	338.3
80°	683.4	246.3	192.5	227.2	244.6	414.6	471.8	336.5	275.8	263.7	255.0
82.5°	258.5	150.9	131.8	156.1	156.1	327.8	385.1	258.5	208.2	268.9	274.1
85°	118.0	90.2	86.7	90.2	90.2	201.2	272.3	168.3	187.3	161.3	142.2
87.5°	46.8	43.4	39.9	38.2	31.2	34.7	93.7	45.1	85.0	22.6	20.8
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)