

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: P477162

Luminaire Tested: **IFLD-M-SA4A-830-U-T2R**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P477162
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4A-830-U-T2R
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens
Light Source: (64) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

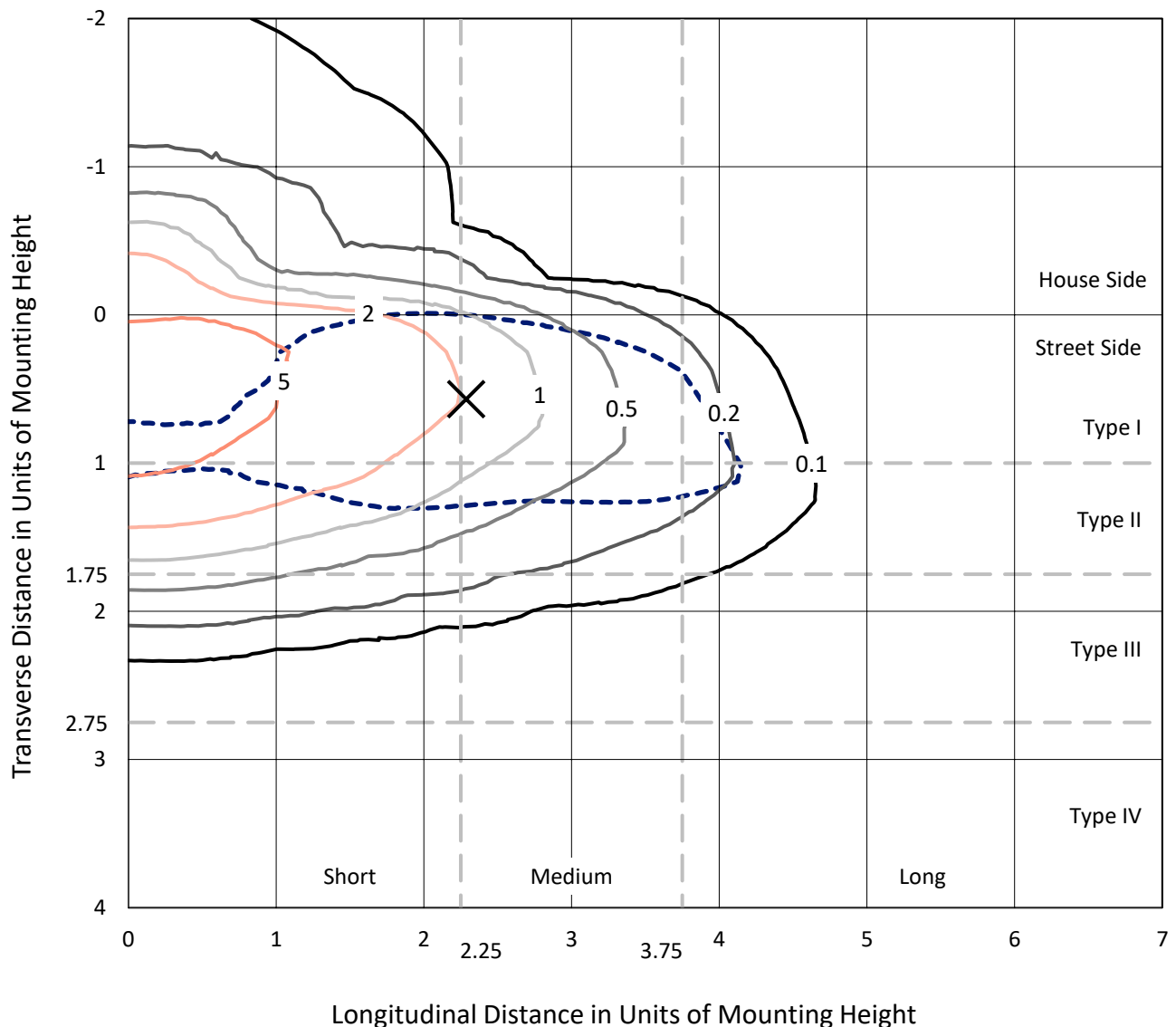
Lumens per Lamp: N/A
Luminaire Lumens: 14756.6 lumens
Efficiency: N/A
Efficacy: 114.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

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

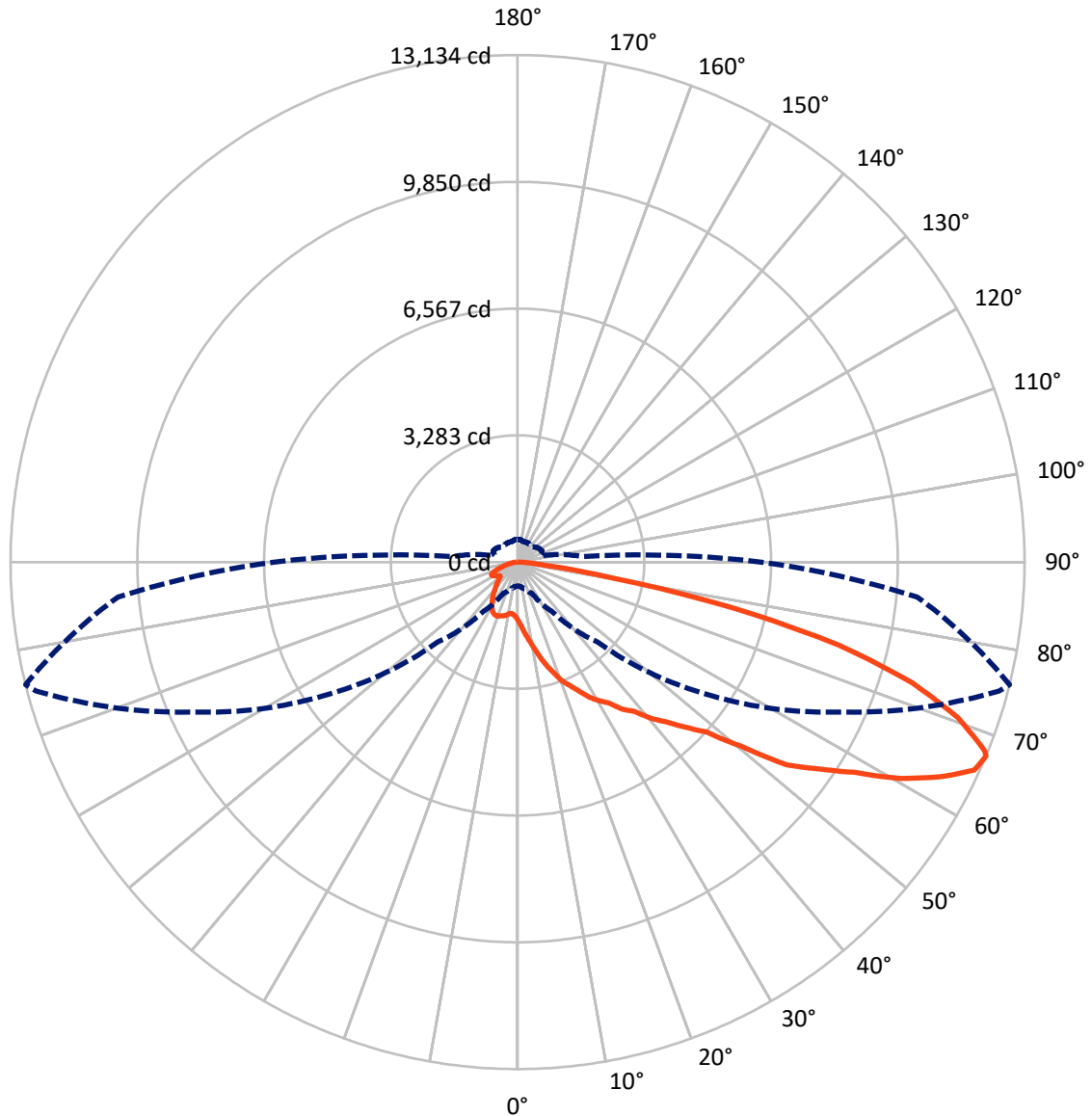
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 8.8 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	2099.3	0.0	2099.3
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	12657.3	0.0	12657.3
	% Fixture	85.8	0.0	85.8
Total	Lumens	14756.6	0.0	14756.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	174.9	1.2
10°-20°	656.1	4.4
20°-30°	1219.7	8.3
30°-40°	1933.5	13.1
40°-50°	2674.2	18.1
50°-60°	3289.5	22.3
60°-70°	3061.0	20.7
70°-80°	1536.0	10.4
80°-90°	211.8	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°	14756.6	100.0
0°-180°	14756.6	100.0

Coefficient of Utilization



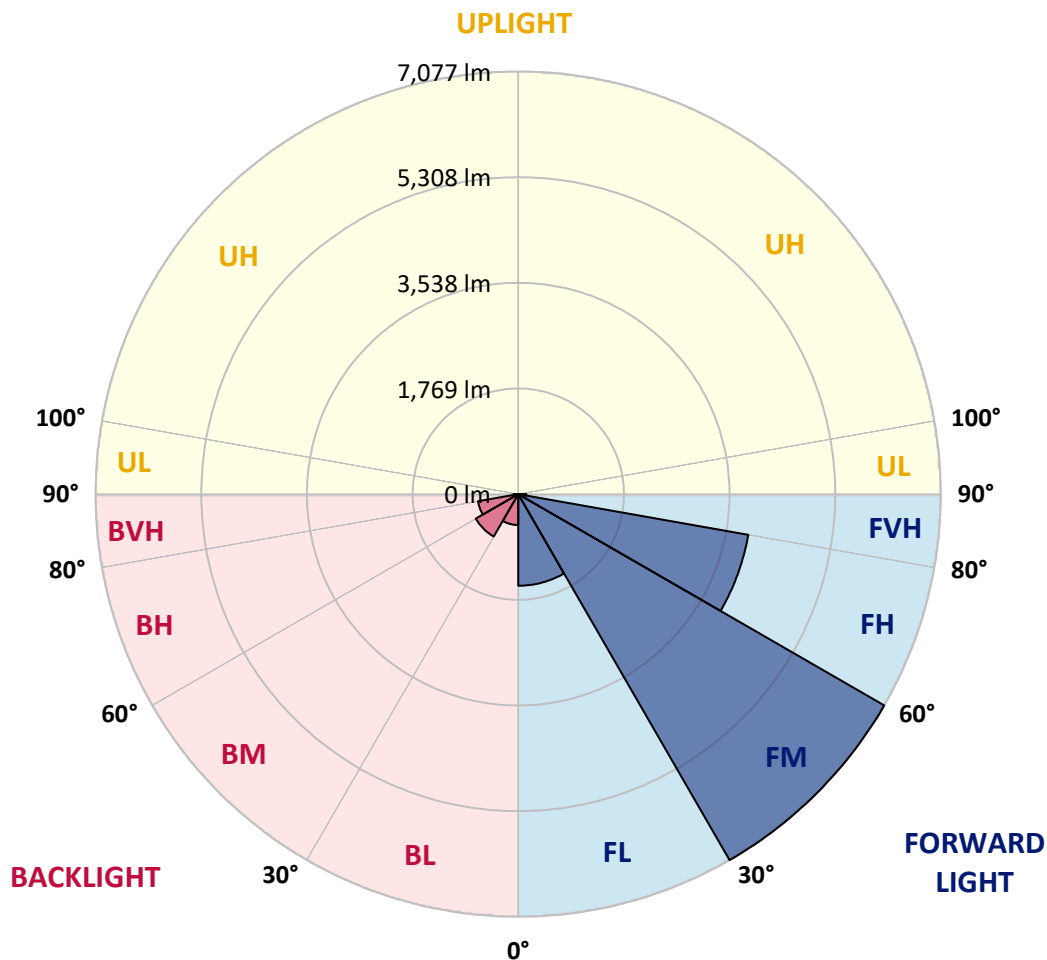
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1533.7	10.4			
FM (30°-60°)	7076.8	48.0			
FH (60°-80°)	3911.9	26.5			G2/5000
FVH (80°-90°)	134.9	0.9			G2/225
BL (0°-30°)	517.0	3.5	B2/1000		
BM (30°-60°)	820.4	5.6	B1/1000		
BH (60°-80°)	685.1	4.6	B2/1000		G2/1000
BVH (80°-90°)	76.9	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°	1510.1	1510.1	1510.1	1510.1	1510.1	1510.1	1510.1	1510.1	1510.1	1510.1	1510.1
2.5°	2095.3	2070.1	2044.9	1991.1	1972.6	1922.1	1829.6	1727.0	1643.0	1631.2	1572.3
5°	2599.8	2562.8	2554.4	2524.1	2428.3	2330.8	2179.4	2014.6	1809.4	1824.6	1622.8
7.5°	2978.2	2956.3	2910.9	2882.3	2825.2	2695.7	2539.3	2320.7	2060.0	2009.6	1735.5
10°	3264.1	3233.8	3232.1	3206.9	3176.6	3043.8	2924.4	2630.1	2295.4	2226.5	1873.4
12.5°	3408.7	3403.6	3492.8	3492.8	3481.0	3425.5	3220.3	2951.3	2519.1	2495.6	2033.1
15°	3565.1	3523.0	3600.4	3659.3	3689.5	3718.1	3548.3	3264.1	2805.0	2759.6	2204.6
17.5°	3565.1	3561.7	3639.1	3736.6	3894.7	3931.7	3839.2	3551.6	3042.1	3008.5	2393.0
20°	3504.5	3553.3	3607.1	3738.3	3909.8	4059.5	4086.4	3845.9	3304.4	3277.5	2606.5
22.5°	3787.1	3740.0	3795.5	3845.9	3978.8	4205.8	4279.8	4104.9	3580.2	3477.6	2799.9
25°	4261.3	4229.3	4189.0	4115.0	4170.5	4269.7	4382.4	4296.6	3815.7	3701.3	2986.6
27.5°	4723.7	4725.4	4638.0	4476.5	4357.1	4377.3	4510.2	4464.8	4014.1	3963.6	3114.4
30°	5381.3	5340.9	5243.4	5024.8	4791.0	4599.3	4577.4	4621.2	4266.3	4168.8	3297.7
32.5°	5874.0	5882.4	5744.5	5430.0	5110.5	4954.1	4762.4	4780.9	4426.1	4353.8	3444.0
35°	6272.5	6262.4	6164.9	5904.3	5525.9	5337.5	5078.6	4972.6	4797.7	4683.4	3667.7
37.5°	6703.0	6620.6	6462.6	6168.3	5926.1	5665.5	5413.2	5174.4	5044.9	4907.0	3859.4
40°	6876.2	6876.2	6664.4	6529.8	6242.3	6045.5	5882.4	5440.1	5345.9	5319.0	4104.9
42.5°	6753.5	6829.2	6741.7	6588.7	6471.0	6222.1	6178.4	5715.9	5717.6	5663.8	4399.2
45°	6741.7	6637.5	6565.1	6603.8	6548.3	6534.9	6645.9	6097.6	6107.7	6101.0	4794.4
47.5°	6403.7	6356.6	6464.2	6528.1	6573.5	6782.1	7101.6	6553.4	6625.7	6575.2	5250.1
50°	6067.4	6059.0	6126.2	6358.3	6555.0	6898.1	7535.4	7256.3	7493.4	7490.0	6075.8
52.5°	5145.8	5235.0	5499.0	5990.0	6476.0	7056.2	7863.4	8154.3	8606.7	8729.4	6760.2
55°	4264.7	4217.6	4607.7	5320.7	6131.3	7118.4	8230.0	8694.1	9360.0	9449.2	7463.1
57.5°	3317.9	3405.3	3713.1	4397.5	5418.3	6810.7	8499.0	9227.2	10210.9	10279.9	8278.7
60°	2475.4	2487.2	2825.2	3376.7	4469.8	6116.1	8586.5	9773.7	11186.3	11383.1	9133.0
62.5°	1557.2	1627.8	1885.1	2428.3	3365.0	5144.2	8194.7	10105.0	12208.7	12260.9	9994.0
65°	839.1	884.5	1077.9	1419.3	2350.9	3891.3	7155.4	9906.6	12689.7	12999.1	10377.4
67°	620.5	628.9	718.1	906.4	1572.3	2929.4	5966.5	9188.5	12908.3	13133.6	10392.6
67.5°	581.8	593.6	664.2	813.9	1394.1	2697.4	5655.4	8932.9	12810.8	13052.9	10274.8
70°	497.8	501.1	517.9	560.0	782.0	1622.8	3851.0	7320.2	11874.1	12106.2	9449.2
72.5°	442.3	445.6	452.4	460.8	529.7	938.4	2342.5	5633.5	10320.3	10690.2	8152.6
75°	388.5	400.2	403.6	396.9	450.7	610.4	1246.1	4140.2	8418.3	8598.2	6339.8
77.5°	329.6	334.6	341.4	348.1	401.9	455.7	598.7	2794.9	5778.1	5668.8	3428.9
80°	277.5	279.2	284.2	289.2	348.1	348.1	339.7	1510.1	2524.1	2413.2	1158.7
82.5°	198.4	210.2	222.0	235.4	289.2	233.7	222.0	672.7	798.8	760.1	391.8
85°	77.4	94.2	146.3	161.4	183.3	126.1	148.0	290.9	333.0	329.6	146.3
87.5°	13.5	15.1	40.4	62.2	67.3	43.7	70.6	104.3	124.4	134.5	53.8
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°	1510.1	1510.1	1510.1	1510.1	1510.1	1510.1	1510.1	1510.1	1510.1	1510.1	1510.1
2.5°	1523.6	1471.4	1409.2	1347.0	1306.6	1242.7	1237.7	1199.0	1194.0	1180.5	1187.2
5°	1535.3	1473.1	1347.0	1247.8	1202.4	1165.4	1173.8	1157.0	1151.9	1143.5	1130.1
7.5°	1627.8	1505.1	1316.7	1231.0	1197.3	1180.5	1180.5	1160.3	1145.2	1155.3	1165.4
10°	1688.4	1520.2	1340.3	1254.5	1227.6	1190.6	1204.1	1178.8	1187.2	1167.1	1167.1
12.5°	1785.9	1606.0	1389.0	1289.8	1246.1	1212.5	1225.9	1197.3	1190.6	1192.3	1187.2
15°	1917.1	1663.1	1410.9	1310.0	1279.7	1237.7	1227.6	1202.4	1177.2	1168.7	1178.8
17.5°	2039.8	1733.8	1426.0	1321.8	1273.0	1225.9	1214.1	1182.2	1173.8	1148.6	1128.4
20°	2186.1	1817.9	1446.2	1331.9	1247.8	1200.7	1170.4	1138.5	1109.9	1094.8	1101.5
22.5°	2283.7	1861.6	1456.3	1311.7	1210.8	1167.1	1103.2	1081.3	1040.9	1024.1	1010.7
25°	2443.4	1915.4	1431.1	1256.2	1145.2	1074.6	1017.4	987.1	958.5	936.7	929.9
27.5°	2483.8	1955.8	1372.2	1162.0	1040.9	966.9	918.2	881.2	862.7	829.1	822.3
30°	2601.5	1915.4	1284.8	1047.7	941.7	866.0	817.3	790.4	746.7	738.2	719.7
32.5°	2677.2	1927.2	1173.8	936.7	827.4	760.1	728.2	701.2	689.5	649.1	639.0
35°	2803.3	1886.8	1061.1	834.1	733.2	681.1	654.2	645.8	607.1	588.6	571.8
37.5°	2884.0	1863.3	948.4	718.1	630.6	608.8	617.2	581.8	534.8	499.4	487.7
40°	3025.3	1854.9	820.6	622.2	560.0	554.9	581.8	514.6	428.8	398.5	381.7
42.5°	3228.8	1797.7	721.4	536.4	504.5	526.4	531.4	428.8	380.1	354.8	343.1
45°	3423.8	1809.4	623.9	444.0	438.9	470.9	459.1	363.2	334.6	316.1	326.2
47.5°	3798.8	1868.3	528.0	370.0	395.2	425.5	356.5	324.6	297.7	284.2	285.9
50°	4379.0	1925.5	444.0	338.0	373.3	385.1	306.1	294.3	292.6	265.7	264.0
52.5°	4727.1	1903.6	428.8	378.4	400.2	385.1	333.0	324.6	311.1	299.3	285.9
55°	5280.4	1967.5	460.8	442.3	454.0	370.0	373.3	370.0	359.9	329.6	338.0
57.5°	5721.0	2009.6	502.8	494.4	487.7	385.1	390.1	391.8	385.1	371.6	383.4
60°	6326.3	2093.6	546.5	548.2	549.9	418.7	427.1	437.2	435.5	430.5	433.9
62.5°	6698.0	2055.0	595.3	622.2	613.8	487.7	486.0	492.7	492.7	501.1	506.2
65°	6642.5	1912.0	620.5	687.8	644.1	538.1	538.1	541.5	543.2	560.0	561.7
67°	6309.5	1656.4	607.1	697.9	644.1	558.3	558.3	561.7	549.9	593.6	580.2
67.5°	6154.8	1580.7	595.3	689.5	639.0	556.6	556.6	558.3	548.2	590.3	576.8
70°	5352.7	1173.8	512.9	610.4	591.9	541.5	541.5	531.4	523.0	578.5	566.7
72.5°	4569.0	852.6	412.0	519.6	534.8	521.3	524.7	499.4	475.9	514.6	504.5
75°	3499.5	627.3	321.2	400.2	452.4	487.7	509.5	445.6	415.4	425.5	407.0
77.5°	1952.4	408.6	253.9	296.0	344.7	454.0	489.4	401.9	339.7	327.9	327.9
80°	662.6	238.8	186.7	220.3	237.1	401.9	457.4	326.2	267.4	255.6	247.2
82.5°	250.6	146.3	127.8	151.3	151.3	317.8	373.3	250.6	201.8	260.7	265.7
85°	114.4	87.4	84.1	87.4	87.4	195.1	264.0	163.1	181.6	156.4	137.9
87.5°	45.4	42.0	38.7	37.0	30.3	33.6	90.8	43.7	82.4	21.9	20.2
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)