

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: P477144

Luminaire Tested: **IFLD-S-SA3C-830-U-T2R**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P477144
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3C-830-U-T2R
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens
Light Source: (48) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

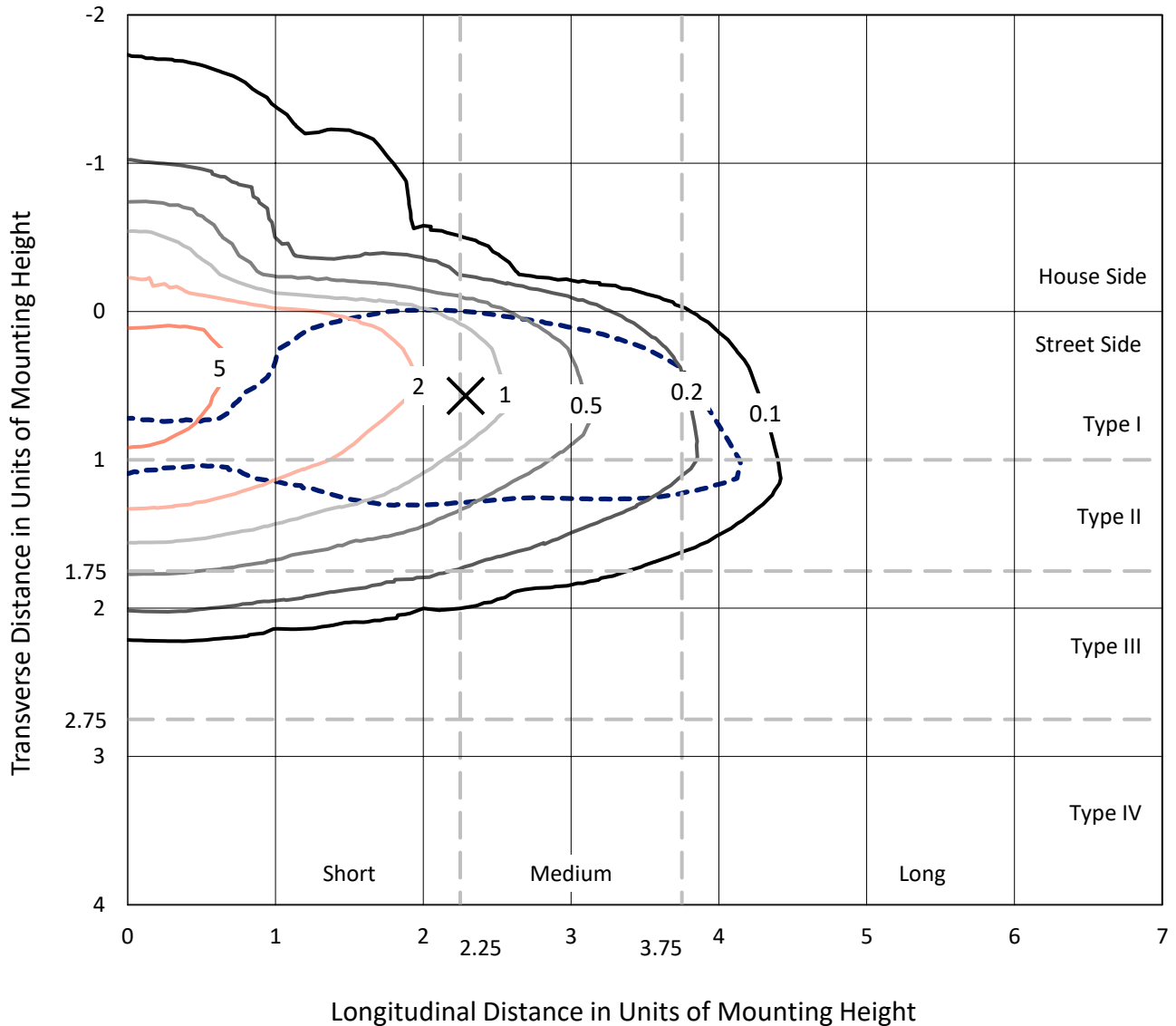
Lumens per Lamp: N/A
Luminaire Lumens: 16925.8 lumens
Efficiency: N/A
Efficacy: 105.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

Input Watts (W): 160.8
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

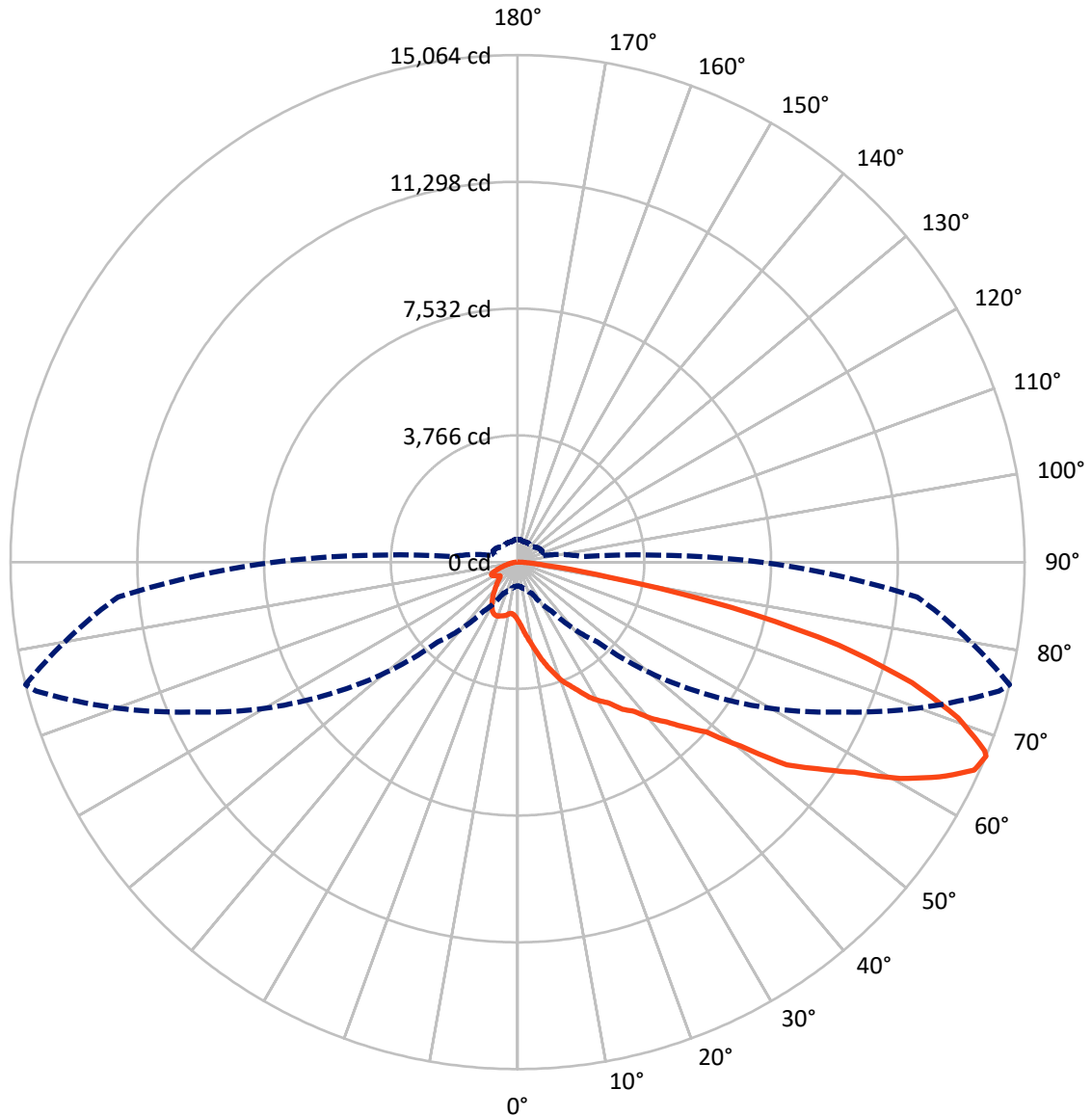
× Max cd
 - - - 1/2 Max cd



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	2407.9	0.0	2407.9
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	14517.9	0.0	14517.9
	% Fixture	85.8	0.0	85.8
Total	Lumens	16925.8	0.0	16925.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	200.6	1.2
10°-20°	752.5	4.4
20°-30°	1399.0	8.3
30°-40°	2217.7	13.1
40°-50°	3067.3	18.1
50°-60°	3773.0	22.3
60°-70°	3510.9	20.7
70°-80°	1761.8	10.4
80°-90°	242.9	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°	16925.8	100.0
0°-180°	16925.8	100.0

Coefficient of Utilization



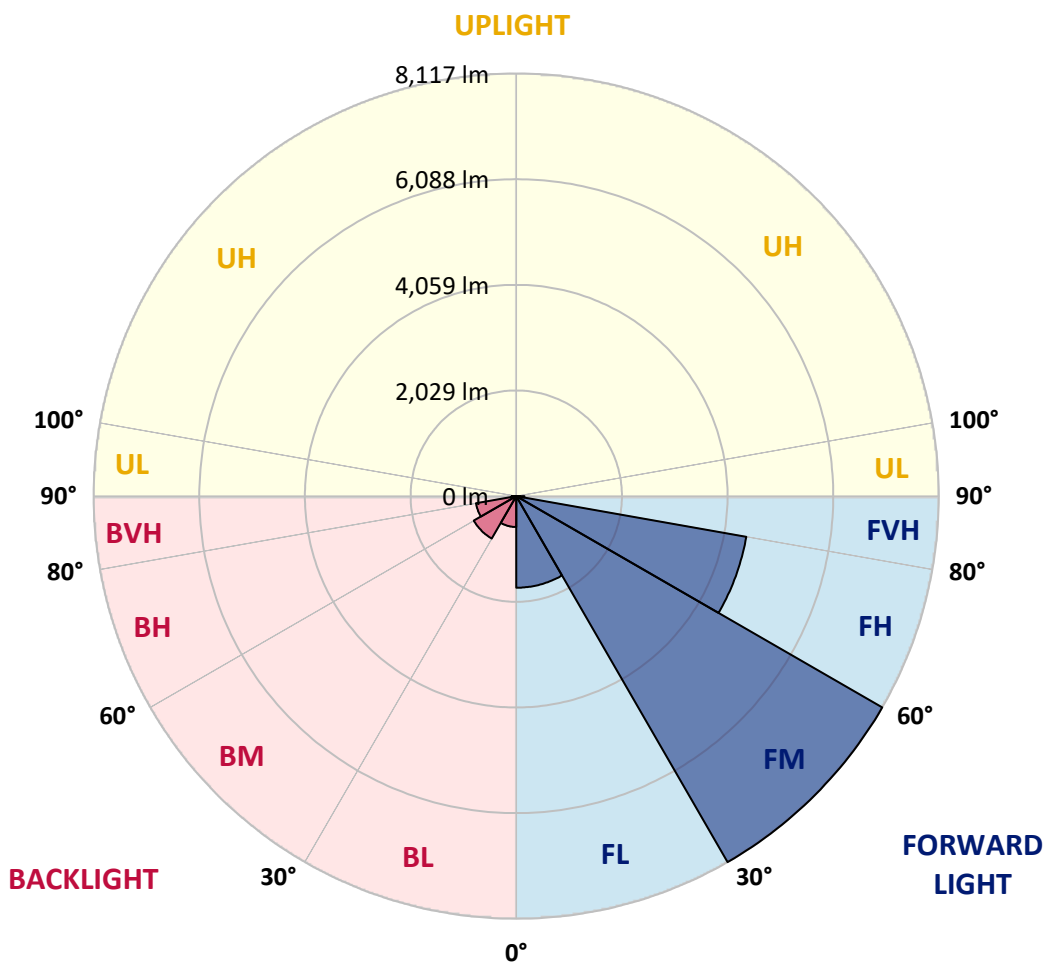
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1759.2	10.4			
FM (30°-60°)	8117.1	48.0			
FH (60°-80°)	4486.9	26.5			G2/5000
FVH (80°-90°)	154.8	0.9			G2/225
BL (0°-30°)	593.0	3.5	B2/1000		
BM (30°-60°)	941.0	5.6	B1/1000		
BH (60°-80°)	785.8	4.6	B2/1000		G2/1000
BVH (80°-90°)	88.2	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°	1732.1	1732.1	1732.1	1732.1	1732.1	1732.1	1732.1	1732.1	1732.1	1732.1	1732.1
2.5°	2403.3	2374.4	2345.5	2283.7	2262.5	2204.7	2098.6	1980.9	1884.5	1871.0	1803.5
5°	2982.0	2939.5	2929.9	2895.2	2785.2	2673.4	2499.8	2310.7	2075.4	2092.8	1861.3
7.5°	3416.0	3390.9	3338.8	3306.0	3240.4	3091.9	2912.5	2661.8	2362.8	2305.0	1990.6
10°	3743.9	3709.2	3707.2	3678.3	3643.6	3491.2	3354.2	3016.7	2632.9	2553.8	2148.7
12.5°	3909.8	3904.0	4006.2	4006.2	3992.7	3929.0	3693.7	3385.1	2889.4	2862.4	2332.0
15°	4089.1	4040.9	4129.6	4197.2	4231.9	4264.7	4069.8	3743.9	3217.3	3165.2	2528.7
17.5°	4089.1	4085.3	4174.0	4285.9	4467.2	4509.6	4403.5	4073.7	3489.3	3450.7	2744.7
20°	4019.7	4075.6	4137.4	4287.8	4484.5	4656.2	4687.1	4411.3	3790.2	3759.3	2989.7
22.5°	4343.7	4289.7	4353.4	4411.3	4563.6	4824.0	4908.9	4708.3	4106.5	3988.8	3211.5
25°	4887.7	4851.0	4804.7	4719.9	4783.5	4897.3	5026.6	4928.2	4376.5	4245.4	3425.6
27.5°	5418.1	5420.0	5319.7	5134.6	4997.6	5020.8	5173.1	5121.1	4604.1	4546.3	3572.2
30°	6172.3	6126.0	6014.1	5763.4	5495.3	5275.4	5250.3	5300.4	4893.5	4781.6	3782.5
32.5°	6737.4	6747.1	6588.9	6228.2	5861.7	5682.4	5462.5	5483.7	5076.7	4993.8	3950.3
35°	7194.6	7183.0	7071.1	6772.1	6338.2	6122.1	5825.1	5703.6	5503.0	5371.8	4206.8
37.5°	7688.3	7593.8	7412.5	7075.0	6797.2	6498.3	6208.9	5935.0	5786.5	5628.3	4426.7
40°	7887.0	7887.0	7644.0	7489.7	7159.8	6934.2	6747.1	6239.8	6131.8	6100.9	4708.3
42.5°	7746.2	7833.0	7732.7	7557.2	7422.2	7136.7	7086.6	6556.1	6558.0	6496.3	5045.8
45°	7732.7	7613.1	7530.2	7574.5	7510.9	7495.5	7622.8	6994.0	7005.5	6997.8	5499.1
47.5°	7345.0	7291.0	7414.5	7487.7	7539.8	7779.0	8145.5	7516.7	7599.6	7541.8	6021.8
50°	6959.2	6949.6	7026.8	7292.9	7518.6	7912.1	8643.1	8322.9	8594.9	8591.0	6968.9
52.5°	5902.2	6004.5	6307.3	6870.5	7428.0	8093.4	9019.2	9352.9	9871.8	10012.6	7753.9
55°	4891.5	4837.5	5285.0	6102.8	7032.5	8164.8	9439.7	9972.1	10735.9	10838.1	8560.2
57.5°	3805.6	3905.9	4258.9	5043.9	6214.7	7811.8	9748.3	10583.5	11711.9	11791.0	9495.7
60°	2839.2	2852.8	3240.4	3873.1	5126.9	7015.2	9848.6	11210.4	12830.6	13056.3	10475.5
62.5°	1786.1	1867.1	2162.2	2785.2	3859.6	5900.3	9399.2	11590.4	14003.4	14063.2	11463.1
65°	962.5	1014.6	1236.4	1627.9	2696.5	4463.3	8207.2	11362.8	14555.0	14909.9	11902.9
67°	711.7	721.4	823.6	1039.6	1803.5	3360.0	6843.5	10539.2	14805.8	15064.2	11920.2
67.5°	667.4	680.9	761.9	933.6	1599.0	3093.9	6486.7	10246.0	14693.9	14971.6	11785.2
70°	570.9	574.8	594.1	642.3	896.9	1861.3	4417.0	8396.2	13619.5	13885.7	10838.1
72.5°	507.3	511.1	518.9	528.5	607.6	1076.3	2686.9	6461.6	11837.3	12261.6	9351.0
75°	445.6	459.1	462.9	455.2	516.9	700.2	1429.3	4748.8	9655.8	9862.1	7271.7
77.5°	378.1	383.8	391.6	399.3	461.0	522.7	686.7	3205.7	6627.5	6502.1	3932.9
80°	318.3	320.2	326.0	331.8	399.3	399.3	389.6	1732.1	2895.2	2767.9	1329.0
82.5°	227.6	241.1	254.6	270.0	331.8	268.1	254.6	771.5	916.2	871.8	449.4
85°	88.7	108.0	167.8	185.2	210.2	144.7	169.7	333.7	381.9	378.1	167.8
87.5°	15.4	17.4	46.3	71.4	77.2	50.1	81.0	119.6	142.7	154.3	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°	1732.1	1732.1	1732.1	1732.1	1732.1	1732.1	1732.1	1732.1	1732.1	1732.1	1732.1
2.5°	1747.5	1687.7	1616.4	1545.0	1498.7	1425.4	1419.6	1375.3	1369.5	1354.0	1361.8
5°	1761.0	1689.7	1545.0	1431.2	1379.1	1336.7	1346.3	1327.0	1321.3	1311.6	1296.2
7.5°	1867.1	1726.3	1510.3	1411.9	1373.3	1354.0	1354.0	1330.9	1313.5	1325.1	1336.7
10°	1936.6	1743.7	1537.3	1438.9	1408.1	1365.6	1381.0	1352.1	1361.8	1338.6	1338.6
12.5°	2048.4	1842.0	1593.2	1479.4	1429.3	1390.7	1406.1	1373.3	1365.6	1367.5	1361.8
15°	2198.9	1907.6	1618.3	1502.6	1467.8	1419.6	1408.1	1379.1	1350.2	1340.5	1352.1
17.5°	2339.7	1988.6	1635.7	1516.1	1460.1	1406.1	1392.6	1356.0	1346.3	1317.4	1294.3
20°	2507.5	2085.1	1658.8	1527.6	1431.2	1377.2	1342.5	1305.8	1273.0	1255.7	1263.4
22.5°	2619.4	2135.2	1670.4	1504.5	1388.8	1338.6	1265.3	1240.2	1194.0	1174.7	1159.2
25°	2802.6	2196.9	1641.4	1440.8	1313.5	1232.5	1166.9	1132.2	1099.4	1074.4	1066.6
27.5°	2848.9	2243.2	1573.9	1332.8	1194.0	1109.1	1053.1	1010.7	989.5	950.9	943.2
30°	2983.9	2196.9	1473.6	1201.7	1080.1	993.4	937.4	906.6	856.4	846.8	825.5
32.5°	3070.7	2210.4	1346.3	1074.4	949.0	871.8	835.2	804.3	790.8	744.5	733.0
35°	3215.4	2164.2	1217.1	956.7	841.0	781.2	750.3	740.7	696.3	675.1	655.8
37.5°	3308.0	2137.2	1087.9	823.6	723.3	698.2	707.9	667.4	613.4	572.9	559.4
40°	3470.0	2127.5	941.3	713.7	642.3	636.5	667.4	590.2	491.9	457.1	437.8
42.5°	3703.4	2061.9	827.5	615.3	578.7	603.7	609.5	491.9	435.9	407.0	393.5
45°	3927.1	2075.4	715.6	509.2	503.4	540.1	526.6	416.6	383.8	362.6	374.2
47.5°	4357.2	2142.9	605.7	424.3	453.3	488.0	408.9	372.3	341.4	326.0	327.9
50°	5022.7	2208.5	509.2	387.7	428.2	441.7	351.0	337.5	335.6	304.8	302.8
52.5°	5422.0	2183.4	491.9	434.0	459.1	441.7	381.9	372.3	356.8	343.3	327.9
55°	6056.6	2256.7	528.5	507.3	520.8	424.3	428.2	424.3	412.8	378.1	387.7
57.5°	6561.9	2305.0	576.7	567.1	559.4	441.7	447.5	449.4	441.7	426.3	439.8
60°	7256.3	2401.4	626.9	628.8	630.7	480.3	489.9	501.5	499.6	493.8	497.6
62.5°	7682.6	2357.0	682.8	713.7	704.0	559.4	557.4	565.1	565.1	574.8	580.6
65°	7618.9	2193.1	711.7	788.9	738.7	617.2	617.2	621.1	623.0	642.3	644.2
67°	7237.0	1899.9	696.3	800.5	738.7	640.4	640.4	644.2	630.7	680.9	665.4
67.5°	7059.5	1813.1	682.8	790.8	733.0	638.4	638.4	640.4	628.8	677.0	661.6
70°	6139.5	1346.3	588.3	700.2	679.0	621.1	621.1	609.5	599.9	663.5	650.0
72.5°	5240.7	977.9	472.6	596.0	613.4	597.9	601.8	572.9	545.9	590.2	578.7
75°	4013.9	719.5	368.4	459.1	518.9	559.4	584.4	511.1	476.4	488.0	466.8
77.5°	2239.4	468.7	291.3	339.5	395.4	520.8	561.3	461.0	389.6	376.1	376.1
80°	760.0	273.9	214.1	252.7	272.0	461.0	524.6	374.2	306.7	293.2	283.5
82.5°	287.4	167.8	146.6	173.6	173.6	364.6	428.2	287.4	231.5	299.0	304.8
85°	131.2	100.3	96.4	100.3	100.3	223.7	302.8	187.1	208.3	179.4	158.2
87.5°	52.1	48.2	44.4	42.4	34.7	38.6	104.2	50.1	94.5	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)