

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: P477139

Luminaire Tested: **IFLD-S-SA2C-830-U-T2R**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P477139
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2C-830-U-T2R
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens
Light Source: (32) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

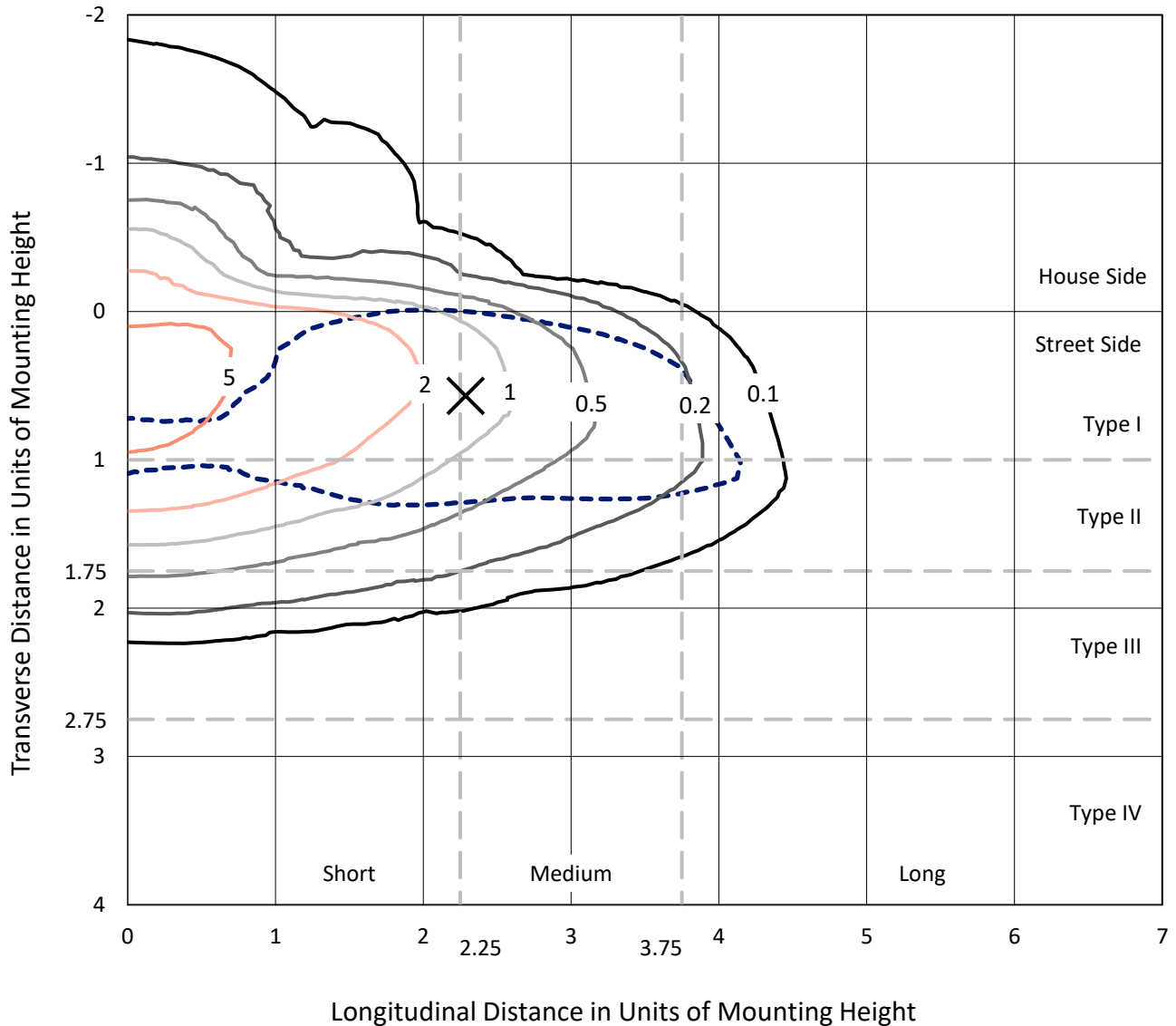
Lumens per Lamp: N/A
Luminaire Lumens: 11357.4 lumens
Efficiency: N/A
Efficacy: 105.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

Input Watts (W): 108.2
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

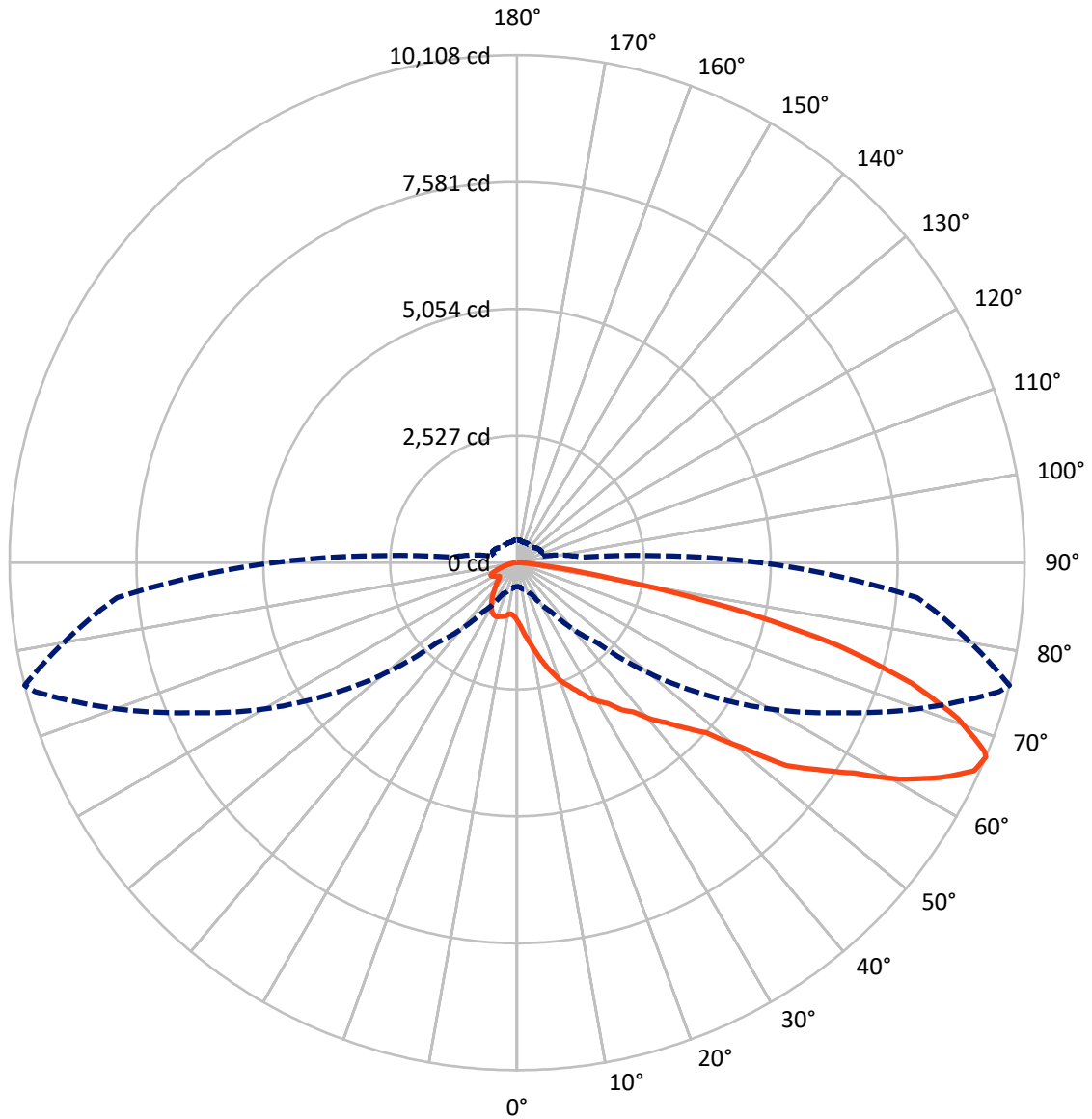
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6.8 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	1615.7	0.0	1615.7
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	9741.7	0.0	9741.7
	% Fixture	85.8	0.0	85.8
Total	Lumens	11357.4	0.0	11357.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	134.6	1.2
10°-20°	504.9	4.4
20°-30°	938.7	8.3
30°-40°	1488.1	13.1
40°-50°	2058.2	18.1
50°-60°	2531.7	22.3
60°-70°	2355.9	20.7
70°-80°	1182.2	10.4
80°-90°	163.0	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°	11357.4	100.0
0°-180°	11357.4	100.0

Coefficient of Utilization



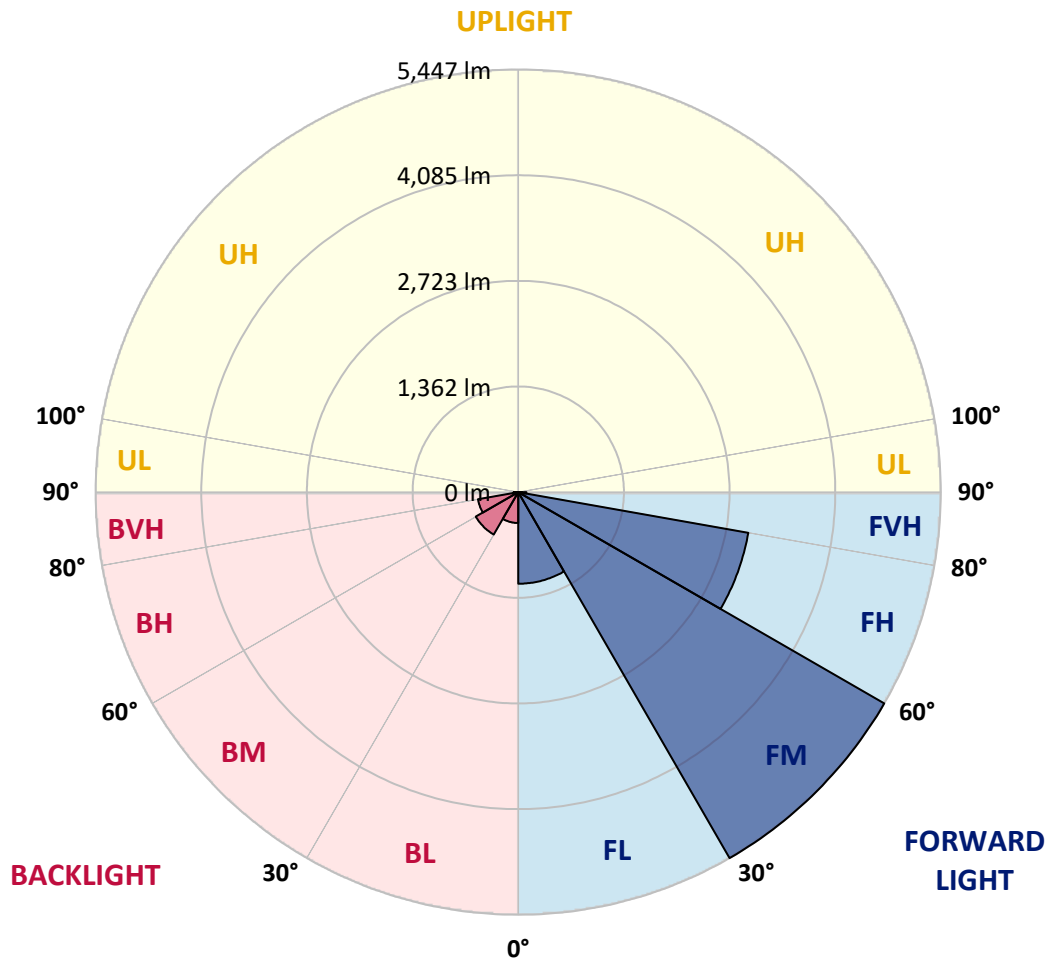
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1180.4	10.4			
FM (30°-60°)	5446.7	48.0			
FH (60°-80°)	3010.8	26.5			G2/5000
FVH (80°-90°)	103.9	0.9			G2/225
BL (0°-30°)	397.9	3.5	B1/500		
BM (30°-60°)	631.4	5.6	B1/1000		
BH (60°-80°)	527.3	4.6	B2/1000		G2/1000
BVH (80°-90°)	59.2	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°	1162.3	1162.3	1162.3	1162.3	1162.3	1162.3	1162.3	1162.3	1162.3	1162.3	1162.3
2.5°	1612.7	1593.3	1573.8	1532.4	1518.2	1479.4	1408.2	1329.2	1264.5	1255.4	1210.1
5°	2001.0	1972.5	1966.0	1942.7	1868.9	1793.9	1677.4	1550.5	1392.6	1404.3	1249.0
7.5°	2292.2	2275.3	2240.4	2218.4	2174.4	2074.7	1954.4	1786.1	1585.5	1546.7	1335.7
10°	2512.2	2488.9	2487.6	2468.2	2444.9	2342.6	2250.7	2024.2	1766.7	1713.6	1441.8
12.5°	2623.5	2619.6	2688.2	2688.2	2679.2	2636.4	2478.5	2271.5	1938.8	1920.7	1564.8
15°	2743.9	2711.5	2771.0	2816.3	2839.6	2861.6	2730.9	2512.2	2158.9	2123.9	1696.8
17.5°	2743.9	2741.3	2800.8	2875.9	2997.5	3026.0	2954.8	2733.5	2341.3	2315.5	1841.8
20°	2697.3	2734.8	2776.2	2877.2	3009.2	3124.4	3145.1	2960.0	2543.3	2522.5	2006.1
22.5°	2914.7	2878.5	2921.2	2960.0	3062.3	3237.0	3293.9	3159.3	2755.5	2676.6	2155.0
25°	3279.7	3255.1	3224.0	3167.1	3209.8	3286.2	3372.9	3306.9	2936.7	2848.7	2298.6
27.5°	3635.6	3636.9	3569.6	3445.4	3353.5	3369.0	3471.3	3436.3	3089.4	3050.6	2397.0
30°	4141.7	4110.6	4035.6	3867.3	3687.4	3539.8	3523.0	3556.7	3283.6	3208.5	2538.1
32.5°	4520.9	4527.4	4421.2	4179.2	3933.3	3812.9	3665.4	3679.6	3406.5	3350.9	2650.7
35°	4827.7	4819.9	4744.8	4544.2	4253.0	4108.0	3908.7	3827.2	3692.6	3604.6	2822.8
37.5°	5159.0	5095.6	4973.9	4747.4	4561.0	4360.4	4166.3	3982.5	3882.8	3776.7	2970.4
40°	5292.3	5292.3	5129.2	5025.7	4804.4	4652.9	4527.4	4187.0	4114.5	4093.8	3159.3
42.5°	5197.8	5256.1	5188.8	5071.0	4980.4	4788.8	4755.2	4399.2	4400.5	4359.1	3385.8
45°	5188.8	5108.5	5052.9	5082.6	5039.9	5029.6	5115.0	4693.0	4700.8	4695.6	3690.0
47.5°	4928.6	4892.4	4975.2	5024.4	5059.3	5219.8	5465.7	5043.8	5099.5	5060.6	4040.7
50°	4669.8	4663.3	4715.1	4893.7	5045.1	5309.1	5799.7	5584.8	5767.3	5764.7	4676.2
52.5°	3960.5	4029.1	4232.3	4610.2	4984.3	5430.8	6052.0	6275.9	6624.1	6718.6	5203.0
55°	3282.3	3246.0	3546.3	4095.1	4718.9	5478.7	6334.2	6691.4	7203.9	7272.5	5744.0
57.5°	2553.6	2620.9	2857.8	3384.5	4170.2	5241.8	6541.3	7101.7	7858.8	7911.9	6371.7
60°	1905.2	1914.2	2174.4	2598.9	3440.2	4707.3	6608.6	7522.3	8609.5	8761.0	7029.2
62.5°	1198.5	1252.9	1450.9	1868.9	2589.8	3959.2	6307.0	7777.3	9396.5	9436.6	7691.9
65°	645.8	680.8	829.6	1092.4	1809.4	2995.0	5507.1	7624.6	9766.6	10004.8	7987.0
67°	477.6	484.1	552.7	697.6	1210.1	2254.6	4592.1	7071.9	9934.9	10108.3	7998.6
67.5°	447.8	456.9	511.2	626.4	1073.0	2076.0	4352.7	6875.2	9859.8	10046.2	7908.0
70°	383.1	385.7	398.6	431.0	601.8	1249.0	2963.9	5634.0	9138.9	9317.5	7272.5
72.5°	340.4	343.0	348.2	354.6	407.7	722.2	1802.9	4335.8	7943.0	8227.7	6274.7
75°	299.0	308.0	310.6	305.4	346.9	469.8	959.1	3186.5	6479.1	6617.6	4879.4
77.5°	253.7	257.6	262.7	267.9	309.3	350.7	460.8	2151.1	4447.1	4363.0	2639.0
80°	213.6	214.8	218.7	222.6	267.9	267.9	261.4	1162.3	1942.7	1857.3	891.8
82.5°	152.7	161.8	170.8	181.2	222.6	179.9	170.8	517.7	614.8	585.0	301.6
85°	59.5	72.5	112.6	124.3	141.1	97.1	113.9	223.9	256.3	253.7	112.6
87.5°	10.4	11.6	31.1	47.9	51.8	33.7	54.4	80.2	95.8	103.5	41.4
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°	1162.3	1162.3	1162.3	1162.3	1162.3	1162.3	1162.3	1162.3	1162.3	1162.3	1162.3
2.5°	1172.6	1132.5	1084.6	1036.7	1005.7	956.5	952.6	922.8	918.9	908.6	913.8
5°	1181.7	1133.8	1036.7	960.4	925.4	896.9	903.4	890.5	886.6	880.1	869.8
7.5°	1252.9	1158.4	1013.4	947.4	921.5	908.6	908.6	893.1	881.4	889.2	896.9
10°	1299.5	1170.0	1031.5	965.5	944.8	916.3	926.7	907.3	913.8	898.2	898.2
12.5°	1374.5	1236.0	1069.1	992.7	959.1	933.2	943.5	921.5	916.3	917.6	913.8
15°	1475.5	1280.0	1085.9	1008.2	984.9	952.6	944.8	925.4	906.0	899.5	907.3
17.5°	1570.0	1334.4	1097.5	1017.3	979.8	943.5	934.5	909.9	903.4	884.0	868.5
20°	1682.6	1399.1	1113.1	1025.1	960.4	924.1	900.8	876.2	854.2	842.6	847.8
22.5°	1757.6	1432.8	1120.8	1009.5	931.9	898.2	849.0	832.2	801.2	788.2	777.9
25°	1880.6	1474.2	1101.4	966.8	881.4	827.0	783.0	759.7	737.7	720.9	715.7
27.5°	1911.6	1505.2	1056.1	894.3	801.2	744.2	706.7	678.2	664.0	638.1	632.9
30°	2002.2	1474.2	988.8	806.3	724.8	666.6	629.0	608.3	574.7	568.2	554.0
32.5°	2060.5	1483.2	903.4	720.9	636.8	585.0	560.4	539.7	530.7	499.6	491.8
35°	2157.6	1452.2	816.7	642.0	564.3	524.2	503.5	497.0	467.2	453.0	440.1
37.5°	2219.7	1434.1	730.0	552.7	485.4	468.5	475.0	447.8	411.6	384.4	375.3
40°	2328.4	1427.6	631.6	478.9	431.0	427.1	447.8	396.0	330.0	306.7	293.8
42.5°	2485.0	1383.6	555.2	412.9	388.3	405.1	409.0	330.0	292.5	273.1	264.0
45°	2635.1	1392.6	480.2	341.7	337.8	362.4	353.3	279.6	257.6	243.3	251.1
47.5°	2923.8	1437.9	406.4	284.7	304.2	327.5	274.4	249.8	229.1	218.7	220.0
50°	3370.3	1481.9	341.7	260.1	287.3	296.4	235.6	226.5	225.2	204.5	203.2
52.5°	3638.2	1465.1	330.0	291.2	308.0	296.4	256.3	249.8	239.4	230.4	220.0
55°	4064.0	1514.3	354.6	340.4	349.5	284.7	287.3	284.7	277.0	253.7	260.1
57.5°	4403.1	1546.7	387.0	380.5	375.3	296.4	300.3	301.6	296.4	286.0	295.1
60°	4869.1	1611.4	420.6	421.9	423.2	322.3	328.7	336.5	335.2	331.3	333.9
62.5°	5155.1	1581.6	458.2	478.9	472.4	375.3	374.0	379.2	379.2	385.7	389.6
65°	5112.4	1471.6	477.6	529.4	495.7	414.2	414.2	416.8	418.1	431.0	432.3
67°	4856.1	1274.9	467.2	537.1	495.7	429.7	429.7	432.3	423.2	456.9	446.5
67.5°	4737.1	1216.6	458.2	530.7	491.8	428.4	428.4	429.7	421.9	454.3	443.9
70°	4119.7	903.4	394.8	469.8	455.6	416.8	416.8	409.0	402.5	445.2	436.2
72.5°	3516.6	656.2	317.1	399.9	411.6	401.2	403.8	384.4	366.3	396.0	388.3
75°	2693.4	482.8	247.2	308.0	348.2	375.3	392.2	343.0	319.7	327.5	313.2
77.5°	1502.7	314.5	195.4	227.8	265.3	349.5	376.6	309.3	261.4	252.4	252.4
80°	509.9	183.8	143.7	169.6	182.5	309.3	352.0	251.1	205.8	196.7	190.3
82.5°	192.8	112.6	98.4	116.5	116.5	244.6	287.3	192.8	155.3	200.6	204.5
85°	88.0	67.3	64.7	67.3	67.3	150.1	203.2	125.5	139.8	120.4	106.1
87.5°	34.9	32.4	29.8	28.5	23.3	25.9	69.9	33.7	63.4	16.8	15.5
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)