

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: P477123

Luminaire Tested: **IFLD-M-SA4A-827-U-T2R**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P477123
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4A-827-U-T2R
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens
Light Source: (64) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

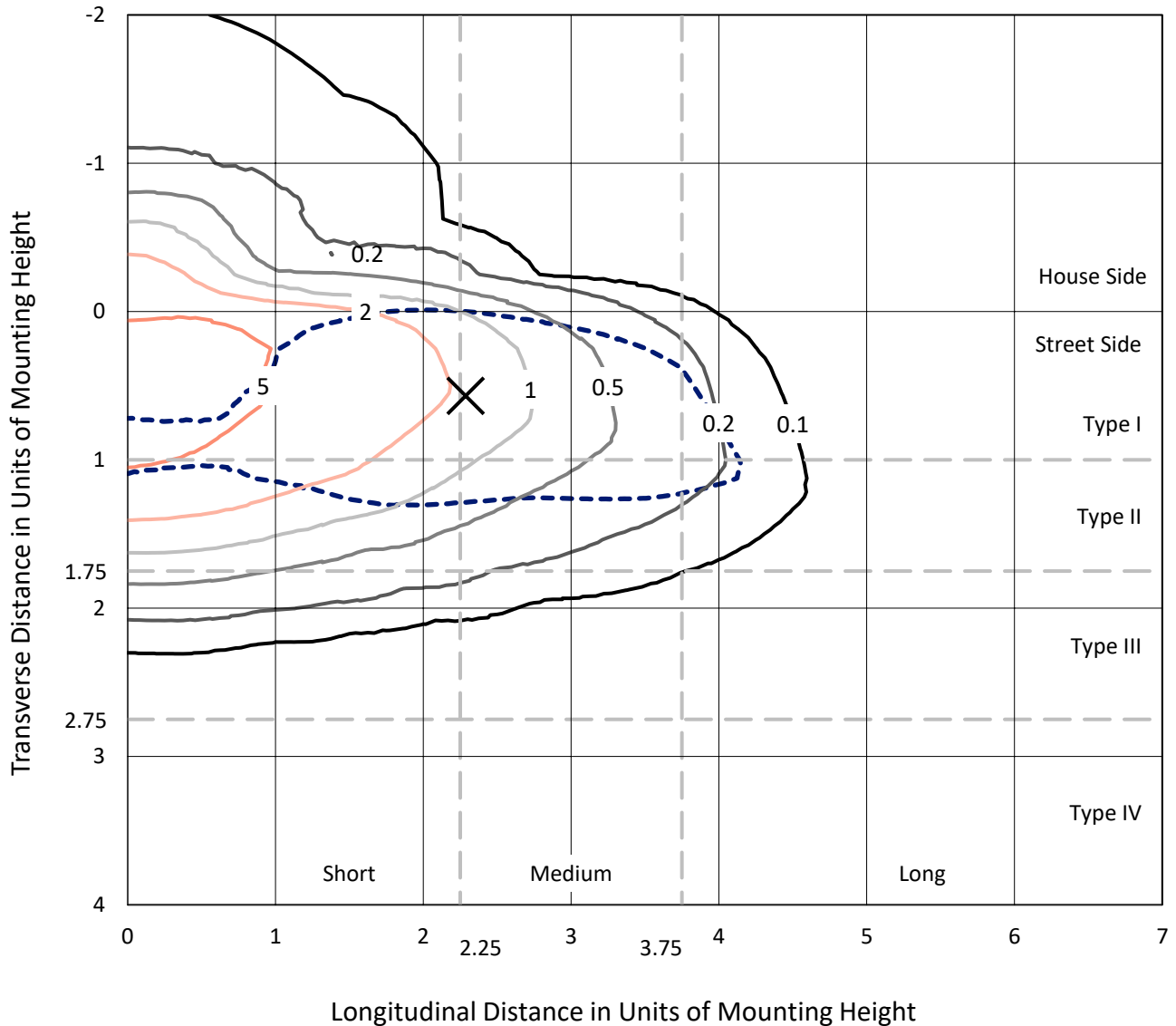
Lumens per Lamp: N/A
Luminaire Lumens: 13651.7 lumens
Efficiency: N/A
Efficacy: 106.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

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

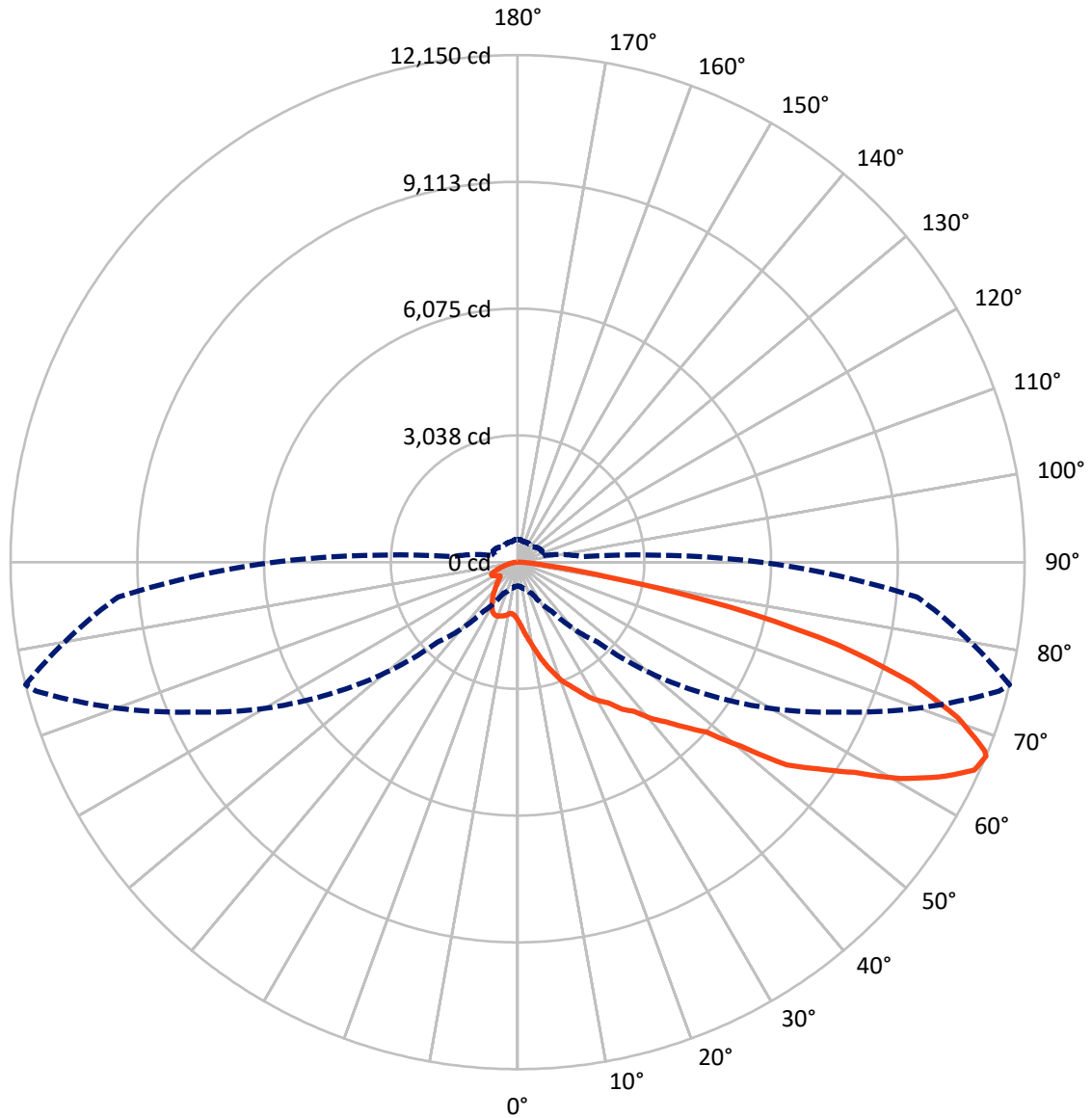
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 8.1 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	1942.1	0.0	1942.1
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	11709.5	0.0	11709.5
	% Fixture	85.8	0.0	85.8
Total	Lumens	13651.7	0.0	13651.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	161.8	1.2
10°-20°	606.9	4.4
20°-30°	1128.4	8.3
30°-40°	1788.7	13.1
40°-50°	2474.0	18.1
50°-60°	3043.1	22.3
60°-70°	2831.8	20.7
70°-80°	1421.0	10.4
80°-90°	195.9	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°	13651.7	100.0
0°-180°	13651.7	100.0

Coefficient of Utilization



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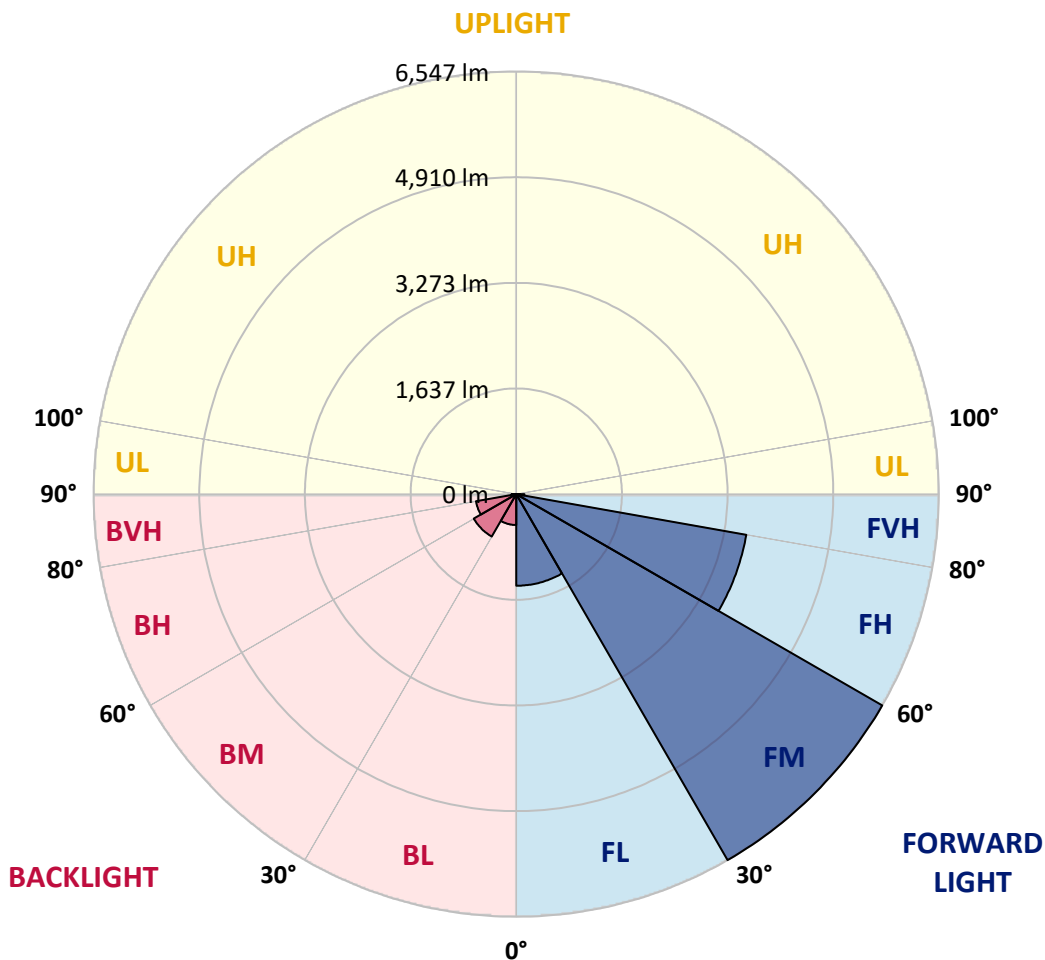
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1418.9	10.4			
FM (30°-60°)	6546.9	48.0			
FH (60°-80°)	3618.9	26.5			G2/5000
FVH (80°-90°)	124.8	0.9			G2/225
BL (0°-30°)	478.3	3.5	B1/500		
BM (30°-60°)	758.9	5.6	B1/1000		
BH (60°-80°)	633.8	4.6	B2/1000		G2/1000
BVH (80°-90°)	71.1	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°	1397.0	1397.0	1397.0	1397.0	1397.0	1397.0	1397.0	1397.0	1397.0	1397.0	1397.0
2.5°	1938.4	1915.1	1891.8	1842.0	1824.9	1778.2	1692.6	1597.7	1519.9	1509.1	1454.6
5°	2405.1	2370.9	2363.1	2335.1	2246.5	2156.2	2016.2	1863.8	1674.0	1688.0	1501.3
7.5°	2755.2	2735.0	2693.0	2666.5	2613.6	2493.8	2349.1	2146.9	1905.8	1859.1	1605.5
10°	3019.7	2991.7	2990.1	2966.8	2938.8	2815.9	2705.4	2433.1	2123.6	2059.8	1733.1
12.5°	3153.4	3148.8	3231.2	3231.2	3220.3	3169.0	2979.2	2730.3	2330.5	2308.7	1880.9
15°	3298.1	3259.2	3330.8	3385.3	3413.3	3439.7	3282.6	3019.7	2594.9	2552.9	2039.6
17.5°	3298.1	3295.0	3366.6	3456.8	3603.1	3637.3	3551.7	3285.7	2814.3	2783.2	2213.8
20°	3242.1	3287.2	3337.0	3458.4	3617.1	3755.5	3780.4	3557.9	3057.0	3032.1	2411.4
22.5°	3503.5	3459.9	3511.3	3557.9	3680.8	3890.9	3959.3	3797.5	3312.1	3217.2	2590.3
25°	3942.2	3912.6	3875.3	3806.9	3858.2	3950.0	4054.2	3974.9	3529.9	3424.1	2763.0
27.5°	4370.0	4371.6	4290.7	4141.3	4030.9	4049.5	4172.4	4130.4	3713.5	3666.8	2881.2
30°	4978.3	4941.0	4850.7	4648.5	4432.3	4254.9	4234.7	4275.1	3946.9	3856.6	3050.8
32.5°	5434.1	5441.9	5314.3	5023.4	4727.8	4583.2	4405.8	4422.9	4094.7	4027.8	3186.1
35°	5802.8	5793.5	5703.3	5462.1	5112.1	4937.9	4698.3	4600.3	4438.5	4332.7	3393.0
37.5°	6201.1	6124.9	5978.6	5706.4	5482.4	5241.2	5007.9	4787.0	4667.2	4539.6	3570.4
40°	6361.3	6361.3	6165.3	6040.9	5774.8	5592.8	5441.9	5032.8	4945.6	4920.7	3797.5
42.5°	6247.8	6317.8	6236.9	6095.3	5986.4	5756.2	5715.7	5287.9	5289.5	5239.7	4069.8
45°	6236.9	6140.4	6073.5	6109.3	6058.0	6045.5	6148.2	5641.0	5650.4	5644.2	4435.4
47.5°	5924.2	5880.6	5980.2	6039.3	6081.3	6274.2	6569.8	6062.6	6129.5	6082.9	4857.0
50°	5613.0	5605.3	5667.5	5882.2	6064.2	6381.6	6971.2	6712.9	6932.3	6929.2	5620.8
52.5°	4760.5	4843.0	5087.2	5541.5	5991.1	6527.8	7274.6	7543.7	7962.2	8075.8	6254.0
55°	3945.3	3901.8	4262.7	4922.3	5672.2	6585.4	7613.7	8043.1	8659.1	8741.6	6904.3
57.5°	3069.4	3150.3	3435.0	4068.2	5012.5	6300.7	7862.6	8536.2	9446.3	9510.1	7658.8
60°	2290.0	2300.9	2613.6	3123.9	4135.1	5658.2	7943.5	9041.9	10348.7	10530.7	8449.1
62.5°	1440.6	1505.9	1744.0	2246.5	3113.0	4759.0	7581.0	9348.3	11294.5	11342.8	9245.7
65°	776.3	818.3	997.2	1313.0	2174.9	3599.9	6619.6	9164.8	11739.5	12025.7	9600.4
67°	574.1	581.8	664.3	838.5	1454.6	2710.1	5519.7	8500.5	11941.7	12150.2	9614.4
67.5°	538.3	549.2	614.5	753.0	1289.7	2495.4	5231.9	8264.0	11851.5	12075.5	9505.5
70°	460.5	463.6	479.2	518.1	723.4	1501.3	3562.6	6772.1	10985.0	11199.6	8741.6
72.5°	409.2	412.3	418.5	426.3	490.1	868.1	2167.1	5211.7	9547.5	9889.7	7542.1
75°	359.4	370.3	373.4	367.2	416.9	564.7	1152.8	3830.2	7787.9	7954.4	5865.1
77.5°	304.9	309.6	315.8	322.0	371.8	421.6	553.8	2585.6	5345.5	5244.3	3172.1
80°	256.7	258.2	262.9	267.6	322.0	322.0	314.3	1397.0	2335.1	2232.5	1071.9
82.5°	183.6	194.5	205.4	217.8	267.6	216.2	205.4	622.3	739.0	703.2	362.5
85°	71.6	87.1	135.3	149.3	169.6	116.7	136.9	269.1	308.0	304.9	135.3
87.5°	12.4	14.0	37.3	57.6	62.2	40.4	65.3	96.5	115.1	124.5	49.8
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°	1397.0	1397.0	1397.0	1397.0	1397.0	1397.0	1397.0	1397.0	1397.0	1397.0	1397.0
2.5°	1409.5	1361.3	1303.7	1246.1	1208.8	1149.7	1145.0	1109.2	1104.6	1092.1	1098.3
5°	1420.4	1362.8	1246.1	1154.3	1112.3	1078.1	1085.9	1070.3	1065.7	1057.9	1045.4
7.5°	1505.9	1392.4	1218.1	1138.8	1107.7	1092.1	1092.1	1073.4	1059.4	1068.8	1078.1
10°	1561.9	1406.4	1239.9	1160.6	1135.7	1101.5	1113.9	1090.6	1098.3	1079.7	1079.7
12.5°	1652.2	1485.7	1285.0	1193.2	1152.8	1121.7	1134.1	1107.7	1101.5	1103.0	1098.3
15°	1773.5	1538.6	1305.3	1211.9	1183.9	1145.0	1135.7	1112.3	1089.0	1081.2	1090.6
17.5°	1887.1	1603.9	1319.3	1222.8	1177.7	1134.1	1123.2	1093.7	1085.9	1062.6	1043.9
20°	2022.4	1681.7	1337.9	1232.1	1154.3	1110.8	1082.8	1053.2	1026.8	1012.8	1019.0
22.5°	2112.7	1722.2	1347.3	1213.5	1120.1	1079.7	1020.6	1000.3	963.0	947.4	935.0
25°	2260.5	1772.0	1323.9	1162.1	1059.4	994.1	941.2	913.2	886.8	866.5	860.3
27.5°	2297.8	1809.3	1269.5	1075.0	963.0	894.5	849.4	815.2	798.1	767.0	760.7
30°	2406.7	1772.0	1188.6	969.2	871.2	801.2	756.1	731.2	690.7	683.0	665.8
32.5°	2476.7	1782.9	1085.9	866.5	765.4	703.2	673.6	648.7	637.8	600.5	591.2
35°	2593.4	1745.5	981.7	771.6	678.3	630.1	605.2	597.4	561.6	544.5	528.9
37.5°	2668.1	1723.7	877.4	664.3	583.4	563.2	571.0	538.3	494.7	462.0	451.2
40°	2798.7	1716.0	759.2	575.6	518.1	513.4	538.3	476.1	396.7	368.7	353.1
42.5°	2987.0	1663.1	667.4	496.3	466.7	486.9	491.6	396.7	351.6	328.3	317.4
45°	3167.5	1674.0	577.2	410.7	406.0	435.6	424.7	336.0	309.6	292.5	301.8
47.5°	3514.4	1728.4	488.5	342.3	365.6	393.6	329.8	300.3	275.4	262.9	264.5
50°	4051.1	1781.3	410.7	312.7	345.4	356.3	283.1	272.3	270.7	245.8	244.2
52.5°	4373.1	1761.1	396.7	350.0	370.3	356.3	308.0	300.3	287.8	276.9	264.5
55°	4885.0	1820.2	426.3	409.2	420.0	342.3	345.4	342.3	332.9	304.9	312.7
57.5°	5292.6	1859.1	465.2	457.4	451.2	356.3	360.9	362.5	356.3	343.8	354.7
60°	5852.6	1936.9	505.6	507.2	508.7	387.4	395.2	404.5	402.9	398.3	401.4
62.5°	6196.4	1901.1	550.7	575.6	567.8	451.2	449.6	455.8	455.8	463.6	468.3
65°	6145.1	1768.9	574.1	636.3	595.8	497.8	497.8	500.9	502.5	518.1	519.6
67°	5837.1	1532.4	561.6	645.6	595.8	516.5	516.5	519.6	508.7	549.2	536.7
67.5°	5693.9	1462.4	550.7	637.8	591.2	514.9	514.9	516.5	507.2	546.1	533.6
70°	4951.9	1085.9	474.5	564.7	547.6	500.9	500.9	491.6	483.8	535.2	524.3
72.5°	4226.9	788.8	381.2	480.7	494.7	482.3	485.4	462.0	440.3	476.1	466.7
75°	3237.5	580.3	297.1	370.3	418.5	451.2	471.4	412.3	384.3	393.6	376.5
77.5°	1806.2	378.0	234.9	273.8	318.9	420.0	452.7	371.8	314.3	303.4	303.4
80°	613.0	220.9	172.7	203.8	219.4	371.8	423.2	301.8	247.4	236.5	228.7
82.5°	231.8	135.3	118.2	140.0	140.0	294.0	345.4	231.8	186.7	241.1	245.8
85°	105.8	80.9	77.8	80.9	80.9	180.5	244.2	150.9	168.0	144.7	127.6
87.5°	42.0	38.9	35.8	34.2	28.0	31.1	84.0	40.4	76.2	20.2	18.7
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)