

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: P477140

Luminaire Tested: **IFLD-S-SA2D-830-U-T2R**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P477140
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2D-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

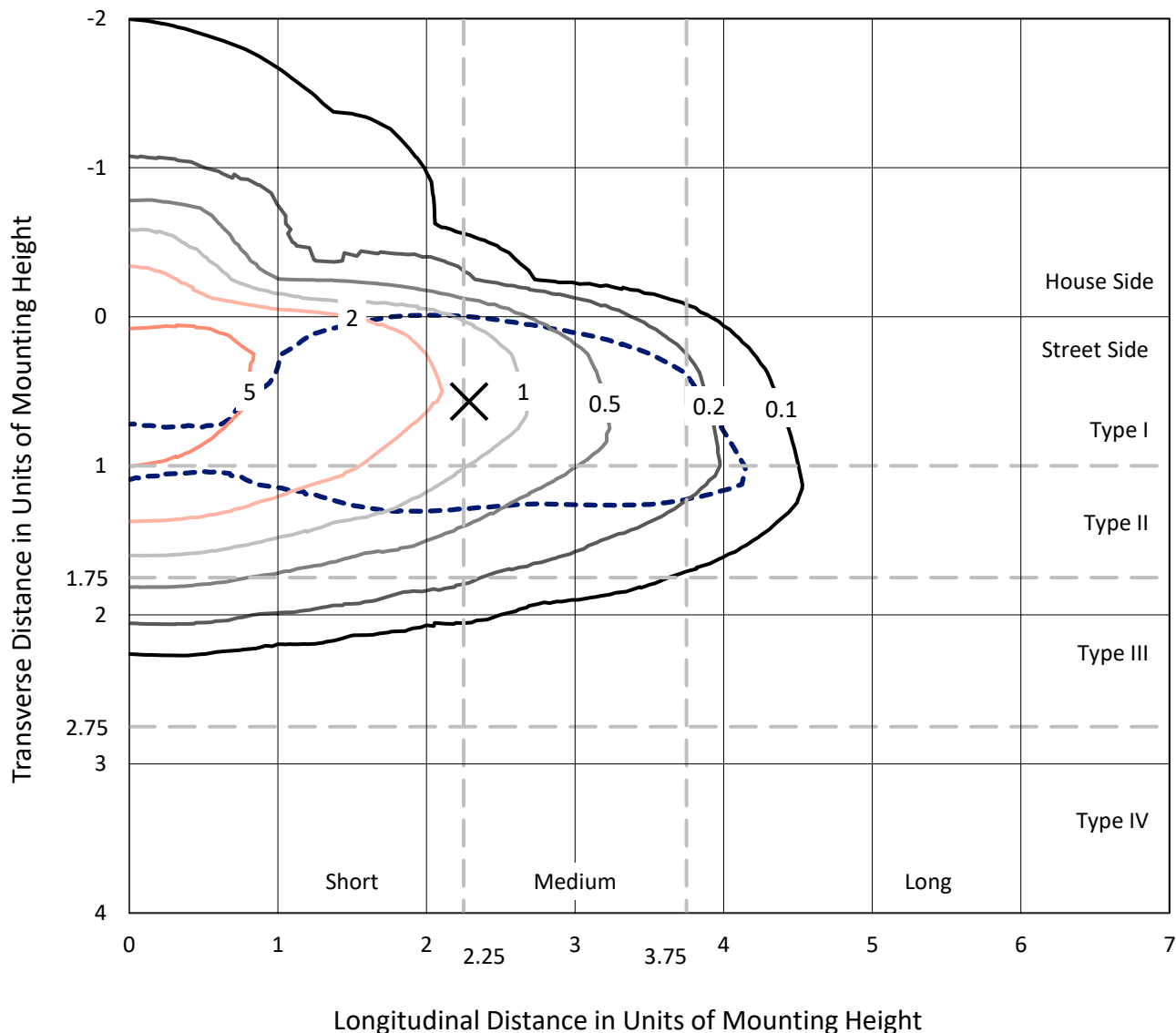
Lumens per Lamp: N/A
Luminaire Lumens: 12497 lumens
Efficiency: N/A
Efficacy: 100.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

Input Watts (W): 123.9
Input Voltage (V): 120
Input Current (A_{in}): 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

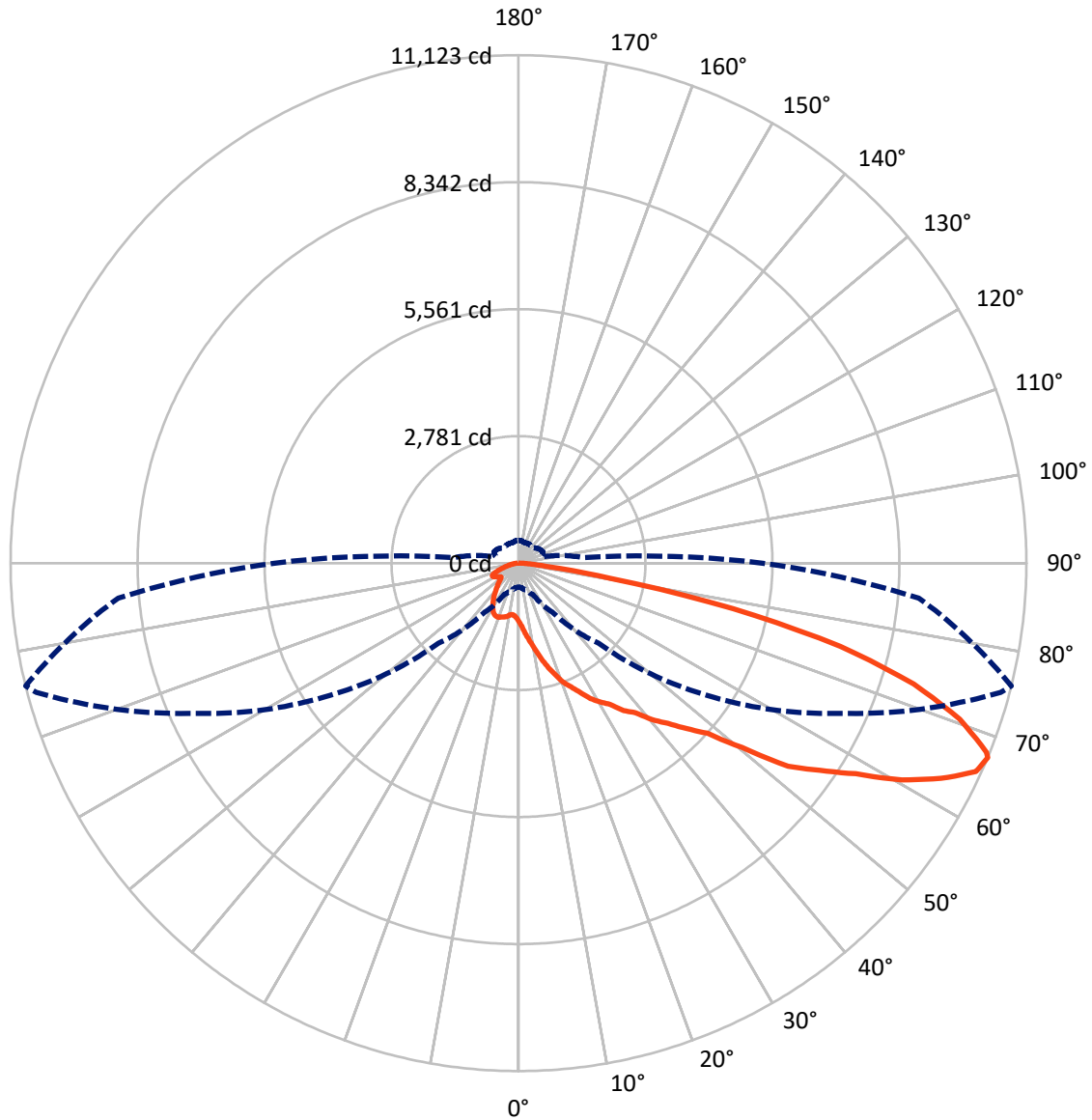
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 7.5 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	1777.9	0.0	1777.9
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	10719.2	0.0	10719.2
	% Fixture	85.8	0.0	85.8
Total	Lumens	12497.0	0.0	12497.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	148.1	1.2
10°-20°	555.6	4.4
20°-30°	1032.9	8.3
30°-40°	1637.4	13.1
40°-50°	2264.7	18.1
50°-60°	2785.8	22.3
60°-70°	2592.3	20.7
70°-80°	1300.8	10.4
80°-90°	179.4	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°	12497.0	100.0
0°-180°	12497.0	100.0

Coefficient of Utilization

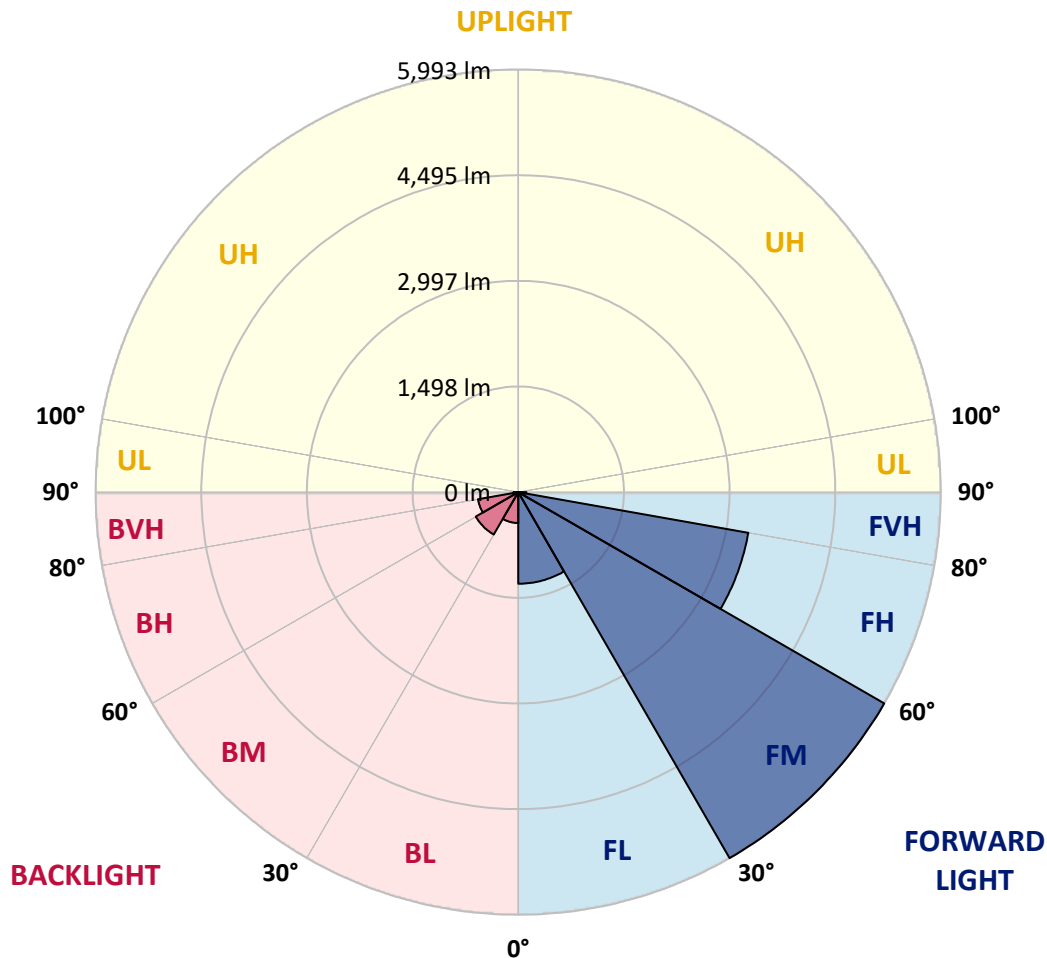


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1298.9	10.4			
FM (30°-60°)	5993.2	48.0			
FH (60°-80°)	3312.9	26.5			G2/5000
FVH (80°-90°)	114.3	0.9			G2/225
BL (0°-30°)	437.8	3.5	B1/500		
BM (30°-60°)	694.8	5.6	B1/1000		
BH (60°-80°)	580.2	4.6	B2/1000		G2/1000
BVH (80°-90°)	65.1	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°	1278.9	1278.9	1278.9	1278.9	1278.9	1278.9	1278.9	1278.9	1278.9	1278.9	1278.9
2.5°	1774.5	1753.1	1731.8	1686.2	1670.5	1627.8	1549.5	1462.6	1391.4	1381.4	1331.6
5°	2201.7	2170.4	2163.3	2137.6	2056.5	1973.9	1845.7	1706.1	1532.4	1545.2	1374.3
7.5°	2522.2	2503.6	2465.2	2441.0	2392.6	2282.9	2150.5	1965.3	1744.6	1701.8	1469.7
10°	2764.3	2738.6	2737.2	2715.8	2690.2	2577.7	2476.6	2227.4	1944.0	1885.6	1586.5
12.5°	2886.7	2882.5	2957.9	2957.9	2948.0	2901.0	2727.2	2499.4	2133.4	2113.4	1721.8
15°	3019.2	2983.6	3049.1	3098.9	3124.6	3148.8	3004.9	2764.3	2375.5	2337.0	1867.0
17.5°	3019.2	3016.3	3081.8	3164.4	3298.3	3329.6	3251.3	3007.8	2576.3	2547.8	2026.6
20°	2967.9	3009.2	3054.8	3165.9	3311.1	3437.9	3460.7	3257.0	2798.4	2775.6	2207.4
22.5°	3207.2	3167.3	3214.3	3257.0	3369.5	3561.8	3624.4	3476.3	3032.0	2945.1	2371.2
25°	3608.8	3581.7	3547.5	3484.9	3531.9	3615.9	3711.3	3638.7	3231.4	3134.5	2529.3
27.5°	4000.4	4001.8	3927.8	3791.1	3689.9	3707.0	3819.5	3781.1	3399.4	3356.7	2637.5
30°	4557.2	4523.1	4440.5	4255.3	4057.4	3895.0	3876.5	3913.5	3613.0	3530.4	2792.7
32.5°	4974.5	4981.6	4864.9	4598.5	4328.0	4195.5	4033.2	4048.8	3748.3	3687.1	2916.6
35°	5312.0	5303.5	5220.9	5000.2	4679.7	4520.2	4300.9	4211.2	4063.1	3966.2	3106.0
37.5°	5676.6	5606.8	5473.0	5223.7	5018.7	4797.9	4584.3	4382.1	4272.4	4155.6	3268.4
40°	5823.3	5823.3	5643.9	5529.9	5286.4	5119.8	4981.6	4607.1	4527.3	4504.6	3476.3
42.5°	5719.3	5783.4	5709.4	5579.8	5480.1	5269.3	5232.3	4840.7	4842.1	4796.5	3725.6
45°	5709.4	5621.1	5559.8	5592.6	5545.6	5534.2	5628.2	5163.9	5172.5	5166.8	4060.2
47.5°	5423.1	5383.2	5474.4	5528.5	5567.0	5743.6	6014.1	5549.9	5611.1	5568.4	4446.2
50°	5138.3	5131.2	5188.1	5384.7	5551.3	5841.8	6381.6	6145.2	6346.0	6343.1	5145.4
52.5°	4357.9	4433.3	4656.9	5072.8	5484.4	5975.7	6659.3	6905.7	7288.7	7392.7	5725.0
55°	3611.6	3571.7	3902.1	4506.0	5192.4	6028.4	6969.7	7362.8	7926.8	8002.2	6320.3
57.5°	2809.8	2883.9	3144.5	3724.1	4588.6	5767.8	7197.6	7814.3	8647.4	8705.8	7011.0
60°	2096.3	2106.3	2392.6	2859.7	3785.4	5179.6	7271.7	8277.1	9473.4	9640.0	7734.5
62.5°	1318.8	1378.6	1596.5	2056.5	2849.7	4356.4	6939.8	8557.7	10339.3	10383.4	8463.7
65°	710.6	749.1	912.9	1202.0	1990.9	3295.5	6059.7	8389.6	10746.6	11008.6	8788.4
67°	525.5	532.6	608.1	767.6	1331.6	2480.9	5052.8	7781.5	10931.7	11122.5	8801.2
67.5°	492.8	502.7	562.5	689.3	1180.6	2284.3	4789.4	7565.0	10849.1	11054.2	8701.5
70°	421.5	424.4	438.6	474.2	662.2	1374.3	3261.3	6199.3	10055.9	10252.4	8002.2
72.5°	374.5	377.4	383.1	390.2	448.6	794.7	1983.8	4770.9	8739.9	9053.3	6904.2
75°	329.0	338.9	341.8	336.1	381.7	517.0	1055.3	3506.2	7129.2	7281.6	5369.0
77.5°	279.1	283.4	289.1	294.8	340.4	385.9	507.0	2366.9	4893.3	4800.8	2903.8
80°	235.0	236.4	240.7	245.0	294.8	294.8	287.7	1278.9	2137.6	2043.6	981.2
82.5°	168.0	178.0	188.0	199.4	245.0	198.0	188.0	569.7	676.5	643.7	331.8
85°	65.5	79.8	123.9	136.7	155.2	106.8	125.3	246.4	282.0	279.1	123.9
87.5°	11.4	12.8	34.2	52.7	57.0	37.0	59.8	88.3	105.4	113.9	45.6
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°	1278.9	1278.9	1278.9	1278.9	1278.9	1278.9	1278.9	1278.9	1278.9	1278.9	1278.9
2.5°	1290.3	1246.1	1193.4	1140.7	1106.6	1052.4	1048.2	1015.4	1011.1	999.7	1005.4
5°	1300.2	1247.5	1140.7	1056.7	1018.3	986.9	994.0	979.8	975.5	968.4	957.0
7.5°	1378.6	1274.6	1115.1	1042.5	1014.0	999.7	999.7	982.7	969.8	978.4	986.9
10°	1429.8	1287.4	1135.0	1062.4	1039.6	1008.3	1019.7	998.3	1005.4	988.4	988.4
12.5°	1512.4	1360.1	1176.3	1092.3	1055.3	1026.8	1038.2	1014.0	1008.3	1009.7	1005.4
15°	1623.5	1408.5	1194.9	1109.4	1083.8	1048.2	1039.6	1018.3	996.9	989.8	998.3
17.5°	1727.5	1468.3	1207.7	1119.4	1078.1	1038.2	1028.2	1001.2	994.0	972.7	955.6
20°	1851.4	1539.5	1224.8	1127.9	1056.7	1016.8	991.2	964.1	939.9	927.1	932.8
22.5°	1934.0	1576.5	1233.3	1110.8	1025.4	988.4	934.2	915.7	881.5	867.3	855.9
25°	2069.3	1622.1	1211.9	1063.8	969.8	910.0	861.6	836.0	811.8	793.2	787.5
27.5°	2103.5	1656.3	1162.1	984.1	881.5	818.9	777.6	746.2	730.6	702.1	696.4
30°	2203.1	1622.1	1088.0	887.2	797.5	733.4	692.1	669.3	632.3	625.2	609.5
32.5°	2267.2	1632.1	994.0	793.2	700.7	643.7	616.7	593.9	583.9	549.7	541.2
35°	2374.0	1597.9	898.6	706.4	620.9	576.8	554.0	546.9	514.1	498.4	484.2
37.5°	2442.4	1577.9	803.2	608.1	534.1	515.5	522.7	492.8	452.9	423.0	413.0
40°	2562.0	1570.8	695.0	526.9	474.2	470.0	492.8	435.8	363.2	337.5	323.3
42.5°	2734.3	1522.4	611.0	454.3	427.2	445.8	450.0	363.2	321.9	300.5	290.5
45°	2899.5	1532.4	528.4	376.0	371.7	398.8	388.8	307.6	283.4	267.7	276.3
47.5°	3217.1	1582.2	447.2	313.3	334.7	360.3	301.9	274.9	252.1	240.7	242.1
50°	3708.5	1630.6	376.0	286.3	316.2	326.1	259.2	249.2	247.8	225.0	223.6
52.5°	4003.3	1612.1	363.2	320.4	338.9	326.1	282.0	274.9	263.5	253.5	242.1
55°	4471.8	1666.2	390.2	374.5	384.5	313.3	316.2	313.3	304.8	279.1	286.3
57.5°	4844.9	1701.8	425.8	418.7	413.0	326.1	330.4	331.8	326.1	314.7	324.7
60°	5357.6	1773.1	462.8	464.3	465.7	354.6	361.7	370.3	368.9	364.6	367.4
62.5°	5672.3	1740.3	504.1	526.9	519.8	413.0	411.6	417.3	417.3	424.4	428.7
65°	5625.4	1619.2	525.5	582.5	545.4	455.7	455.7	458.6	460.0	474.2	475.7
67°	5343.4	1402.8	514.1	591.0	545.4	472.8	472.8	475.7	465.7	502.7	491.3
67.5°	5212.4	1338.7	504.1	583.9	541.2	471.4	471.4	472.8	464.3	499.9	488.5
70°	4533.0	994.0	434.4	517.0	501.3	458.6	458.6	450.0	442.9	489.9	479.9
72.5°	3869.4	722.0	348.9	440.1	452.9	441.5	444.3	423.0	403.0	435.8	427.2
75°	2963.6	531.2	272.0	338.9	383.1	413.0	431.5	377.4	351.8	360.3	344.6
77.5°	1653.4	346.1	215.0	250.6	291.9	384.5	414.4	340.4	287.7	277.7	277.7
80°	561.1	202.2	158.1	186.6	200.8	340.4	387.4	276.3	226.4	216.5	209.3
82.5°	212.2	123.9	108.2	128.2	128.2	269.2	316.2	212.2	170.9	220.7	225.0
85°	96.8	74.1	71.2	74.1	74.1	165.2	223.6	138.1	153.8	132.4	116.8
87.5°	38.5	35.6	32.8	31.3	25.6	28.5	76.9	37.0	69.8	18.5	17.1
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)