

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: P476906

Luminaire Tested: **IFLD-S-SA2D-730-U-T2R**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P476906
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2D-730-U-T2R
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens
Light Source: (32) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

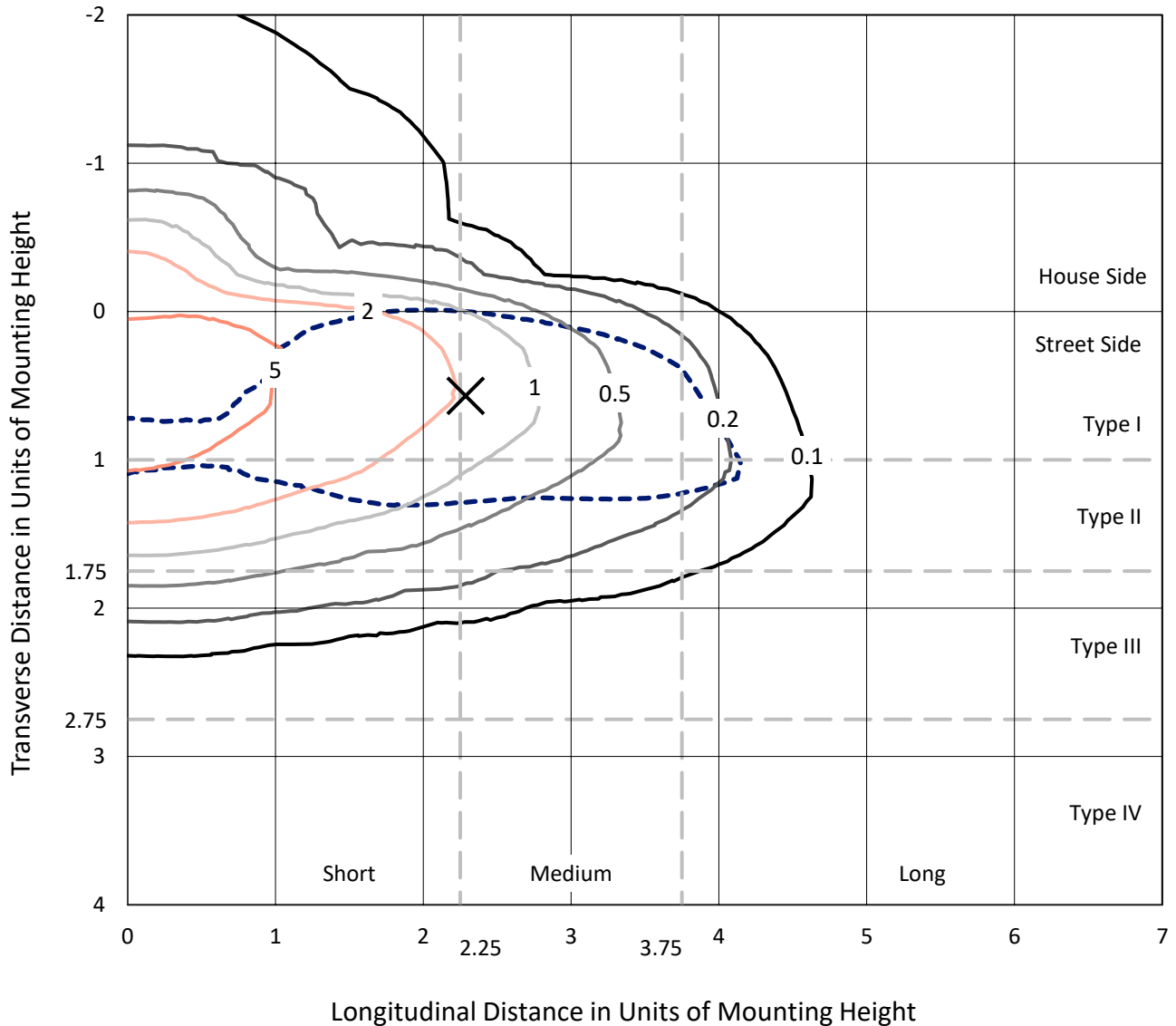
Lumens per Lamp: N/A
Luminaire Lumens: 14321.4 lumens
Efficiency: N/A
Efficacy: 115.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

Input Watts (W): 123.9
Input Voltage (V): 120
Input Current (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

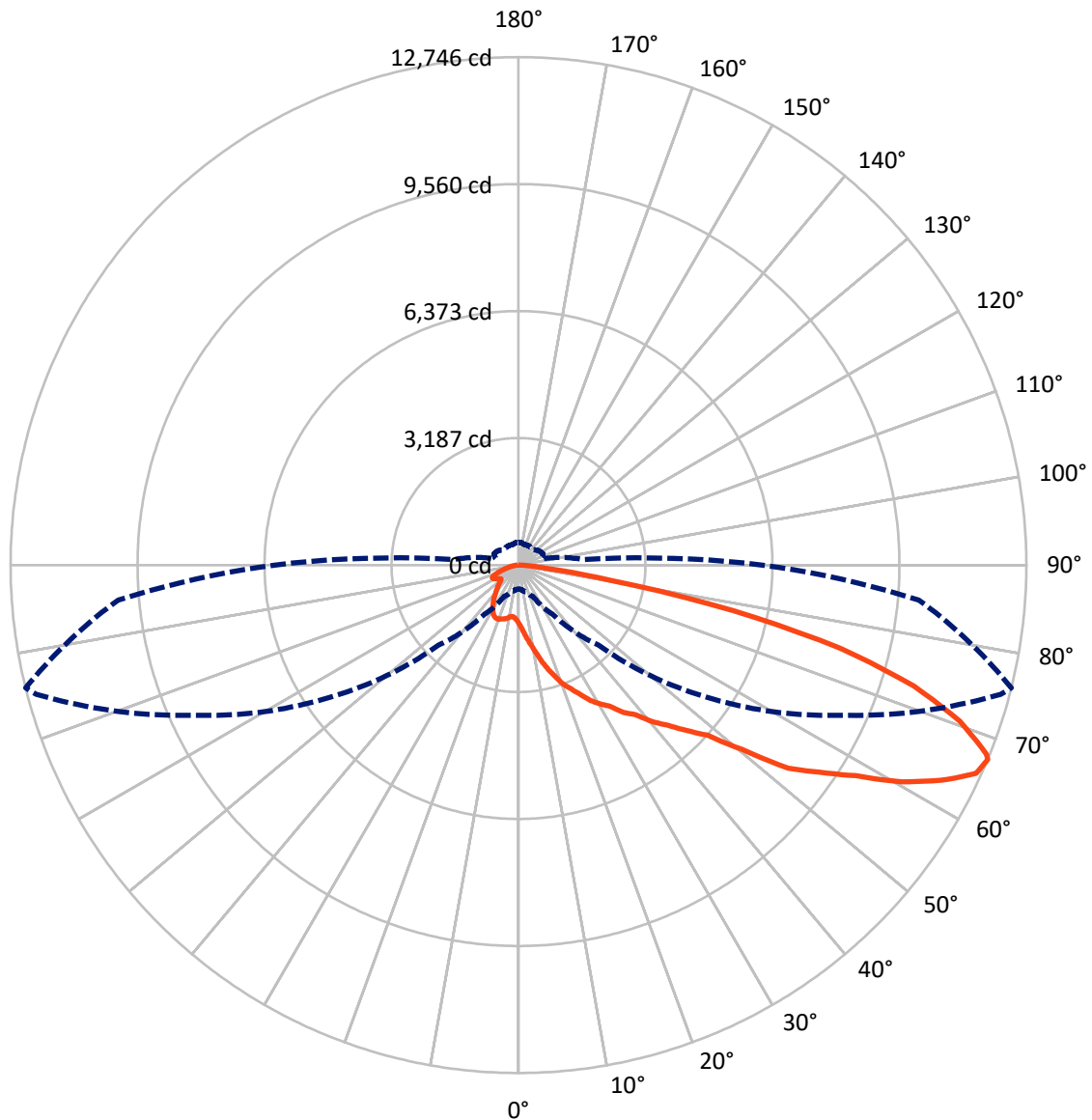
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 8.5 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	2037.4	0.0	2037.4
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	12284.0	0.0	12284.0
	% Fixture	85.8	0.0	85.8
Total	Lumens	14321.4	0.0	14321.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	169.8	1.2
10°-20°	636.7	4.4
20°-30°	1183.7	8.3
30°-40°	1876.5	13.1
40°-50°	2595.3	18.1
50°-60°	3192.4	22.3
60°-70°	2970.7	20.7
70°-80°	1490.7	10.4
80°-90°	205.5	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°	14321.4	100.0
0°-180°	14321.4	100.0

Coefficient of Utilization

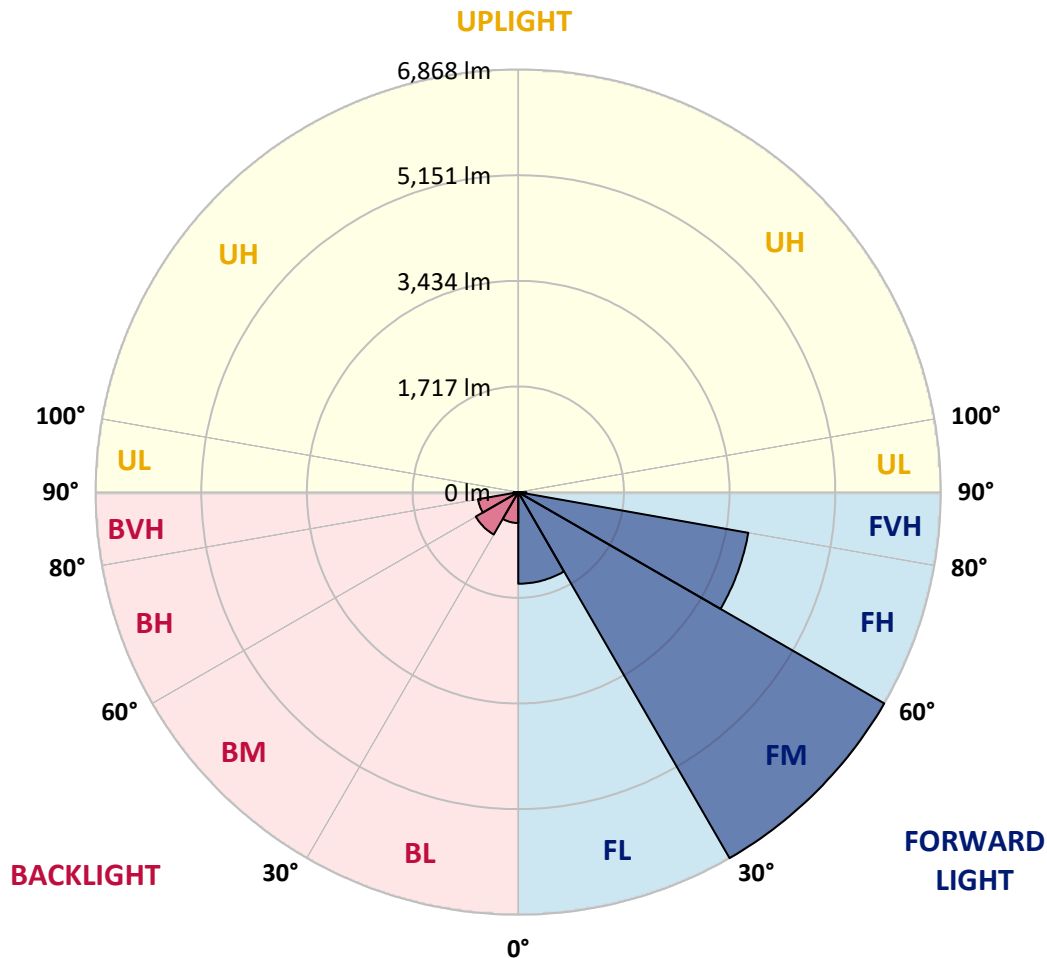


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1488.5	10.4			
FM (30°-60°)	6868.1	48.0			
FH (60°-80°)	3796.5	26.5			G2/5000
FVH (80°-90°)	131.0	0.9			G2/225
BL (0°-30°)	501.7	3.5	B2/1000		
BM (30°-60°)	796.2	5.6	B1/1000		
BH (60°-80°)	664.9	4.6	B2/1000		G2/1000
BVH (80°-90°)	74.6	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°	1465.6	1465.6	1465.6	1465.6	1465.6	1465.6	1465.6	1465.6	1465.6	1465.6	1465.6
2.5°	2033.5	2009.0	1984.6	1932.3	1914.4	1865.4	1775.7	1676.1	1594.5	1583.1	1526.0
5°	2523.1	2487.2	2479.1	2449.7	2356.7	2262.0	2115.1	1955.2	1756.1	1770.8	1574.9
7.5°	2890.3	2869.1	2825.1	2797.3	2741.8	2616.2	2464.4	2252.2	1999.3	1950.3	1684.3
10°	3167.8	3138.4	3136.8	3112.3	3082.9	2954.0	2838.1	2552.5	2227.7	2160.8	1818.1
12.5°	3308.2	3303.3	3389.8	3389.8	3378.3	3324.5	3125.4	2864.2	2444.8	2422.0	1973.1
15°	3459.9	3419.1	3494.2	3551.3	3580.7	3608.4	3443.6	3167.8	2722.2	2678.2	2139.6
17.5°	3459.9	3456.7	3531.7	3626.4	3779.8	3815.7	3726.0	3446.9	2952.4	2919.7	2322.4
20°	3401.2	3448.5	3500.7	3628.0	3794.5	3939.8	3965.9	3732.5	3207.0	3180.9	2529.7
22.5°	3675.4	3629.7	3683.5	3732.5	3861.4	4081.7	4153.6	3983.8	3474.6	3375.1	2717.4
25°	4135.6	4104.6	4065.4	3993.6	4047.5	4143.8	4253.1	4169.9	3703.1	3592.1	2898.5
27.5°	4584.4	4586.0	4501.2	4344.5	4228.6	4248.2	4377.1	4333.1	3895.7	3846.7	3022.5
30°	5222.5	5183.4	5088.7	4876.5	4649.7	4463.6	4442.4	4484.9	4140.5	4045.8	3200.4
32.5°	5700.7	5708.9	5575.1	5269.9	4959.8	4808.0	4621.9	4639.9	4295.5	4225.4	3342.4
35°	6087.5	6077.7	5983.1	5730.1	5362.9	5180.1	4928.8	4826.0	4656.2	4545.2	3559.5
37.5°	6505.3	6425.4	6271.9	5986.3	5751.3	5498.4	5253.5	5021.8	4896.1	4762.3	3745.5
40°	6673.4	6673.4	6467.8	6337.2	6058.1	5867.2	5708.9	5279.7	5188.3	5162.2	3983.8
42.5°	6554.3	6627.7	6542.9	6394.3	6280.1	6038.6	5996.1	5547.3	5548.9	5496.7	4269.4
45°	6542.9	6441.7	6371.5	6409.0	6355.2	6342.1	6449.8	5917.8	5927.6	5921.1	4653.0
47.5°	6214.8	6169.1	6273.6	6335.6	6379.7	6582.0	6892.1	6360.1	6430.3	6381.3	5095.2
50°	5888.4	5880.3	5945.5	6170.8	6361.7	6694.6	7313.2	7042.3	7272.4	7269.1	5896.6
52.5°	4994.1	5080.6	5336.8	5813.3	6285.0	6848.1	7631.4	7913.8	8352.8	8471.9	6560.8
55°	4138.9	4093.2	4471.8	5163.8	5950.4	6908.4	7987.2	8437.7	9084.0	9170.5	7243.0
57.5°	3220.0	3304.9	3603.6	4267.8	5258.4	6609.8	8248.3	8955.0	9909.8	9976.7	8034.6
60°	2402.4	2413.8	2741.8	3277.1	4338.0	5935.7	8333.2	9485.4	10856.4	11047.3	8863.6
62.5°	1511.3	1579.8	1829.5	2356.7	3265.7	4992.4	7952.9	9807.0	11848.6	11899.2	9699.2
65°	814.4	858.5	1046.1	1377.4	2281.6	3776.5	6944.3	9614.4	12315.4	12615.7	10071.3
67°	602.2	610.4	696.9	879.7	1526.0	2843.0	5790.5	8917.5	12527.6	12746.3	10086.0
67.5°	564.7	576.1	644.7	789.9	1353.0	2617.8	5488.6	8669.4	12432.9	12667.9	9971.8
70°	483.1	486.3	502.7	543.5	758.9	1574.9	3737.4	7104.3	11523.9	11749.1	9170.5
72.5°	429.2	432.5	439.0	447.2	514.1	910.7	2273.4	5467.3	10015.9	10374.9	7912.1
75°	377.0	388.4	391.7	385.2	437.4	592.4	1209.3	4018.1	8170.0	8344.6	6152.8
77.5°	319.9	324.8	331.3	337.8	390.1	442.3	581.0	2712.5	5607.7	5501.6	3327.7
80°	269.3	270.9	275.8	280.7	337.8	337.8	329.7	1465.6	2449.7	2342.0	1124.5
82.5°	192.6	204.0	215.4	228.5	280.7	226.9	215.4	652.8	775.2	737.7	380.3
85°	75.1	91.4	142.0	156.7	177.9	122.4	143.6	282.3	323.1	319.9	142.0
87.5°	13.1	14.7	39.2	60.4	65.3	42.4	68.5	101.2	120.8	130.6	52.2
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°	1465.6	1465.6	1465.6	1465.6	1465.6	1465.6	1465.6	1465.6	1465.6	1465.6	1465.6
2.5°	1478.6	1428.0	1367.7	1307.3	1268.1	1206.1	1201.2	1163.6	1158.8	1145.7	1152.2
5°	1490.1	1429.7	1307.3	1211.0	1166.9	1131.0	1139.2	1122.8	1117.9	1109.8	1096.7
7.5°	1579.8	1460.7	1277.9	1194.7	1162.0	1145.7	1145.7	1126.1	1111.4	1121.2	1131.0
10°	1638.6	1475.4	1300.7	1217.5	1191.4	1155.5	1168.5	1144.1	1152.2	1132.6	1132.6
12.5°	1733.2	1558.6	1348.1	1251.8	1209.3	1176.7	1189.8	1162.0	1155.5	1157.1	1152.2
15°	1860.5	1614.1	1369.3	1271.4	1242.0	1201.2	1191.4	1166.9	1142.4	1134.3	1144.1
17.5°	1979.7	1682.6	1384.0	1282.8	1235.5	1189.8	1178.3	1147.3	1139.2	1114.7	1095.1
20°	2121.7	1764.2	1403.6	1292.6	1211.0	1165.3	1135.9	1104.9	1077.1	1062.5	1069.0
22.5°	2216.3	1806.7	1413.3	1273.0	1175.1	1132.6	1070.6	1049.4	1010.2	993.9	980.9
25°	2371.4	1858.9	1388.9	1219.1	1111.4	1042.9	987.4	958.0	930.3	909.0	902.5
27.5°	2410.5	1898.1	1331.7	1127.7	1010.2	938.4	891.1	855.2	837.2	804.6	798.1
30°	2524.8	1858.9	1246.9	1016.8	913.9	840.5	793.2	767.1	724.6	716.5	698.5
32.5°	2598.2	1870.3	1139.2	909.0	803.0	737.7	706.7	680.6	669.1	630.0	620.2
35°	2720.6	1831.2	1029.8	809.5	711.6	661.0	634.9	626.7	589.2	571.2	554.9
37.5°	2799.0	1808.3	920.5	696.9	612.0	590.8	599.0	564.7	519.0	484.7	473.3
40°	2936.0	1800.1	796.4	603.9	543.5	538.6	564.7	499.4	416.2	386.8	370.5
42.5°	3133.5	1744.7	700.1	520.6	489.6	510.8	515.7	416.2	368.8	344.4	332.9
45°	3322.8	1756.1	605.5	430.9	426.0	457.0	445.5	352.5	324.8	306.8	316.6
47.5°	3686.8	1813.2	512.5	359.0	383.5	412.9	346.0	315.0	288.9	275.8	277.4
50°	4249.8	1868.7	430.9	328.0	362.3	373.7	297.0	285.6	284.0	257.9	256.2
52.5°	4587.7	1847.5	416.2	367.2	388.4	373.7	323.1	315.0	301.9	290.5	277.4
55°	5124.6	1909.5	447.2	429.2	440.7	359.0	362.3	359.0	349.3	319.9	328.0
57.5°	5552.2	1950.3	488.0	479.8	473.3	373.7	378.6	380.3	373.7	360.7	372.1
60°	6139.7	2031.9	530.4	532.0	533.7	406.4	414.5	424.3	422.7	417.8	421.1
62.5°	6500.4	1994.4	577.7	603.9	595.7	473.3	471.7	478.2	478.2	486.3	491.2
65°	6446.6	1855.6	602.2	667.5	625.1	522.3	522.3	525.5	527.2	543.5	545.1
67°	6123.4	1607.6	589.2	677.3	625.1	541.8	541.8	545.1	533.7	576.1	563.1
67.5°	5973.3	1534.1	577.7	669.1	620.2	540.2	540.2	541.8	532.0	572.8	559.8
70°	5194.8	1139.2	497.8	592.4	574.5	525.5	525.5	515.7	507.6	561.4	550.0
72.5°	4434.3	827.4	399.9	504.3	519.0	505.9	509.2	484.7	461.9	499.4	489.6
75°	3396.3	608.8	311.7	388.4	439.0	473.3	494.5	432.5	403.1	412.9	395.0
77.5°	1894.8	396.6	246.4	287.2	334.6	440.7	474.9	390.1	329.7	318.2	318.2
80°	643.0	231.8	181.2	213.8	230.1	390.1	443.9	316.6	259.5	248.1	239.9
82.5°	243.2	142.0	124.0	146.9	146.9	308.5	362.3	243.2	195.8	253.0	257.9
85°	111.0	84.9	81.6	84.9	84.9	189.3	256.2	158.3	176.3	151.8	133.8
87.5°	44.1	40.8	37.5	35.9	29.4	32.6	88.1	42.4	80.0	21.2	19.6
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)