

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: P480836

Luminaire Tested: **IFLD-L-SA7D-730-U-SL4**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480836
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7D-730-U-SL4
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens
Light Source: (112) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

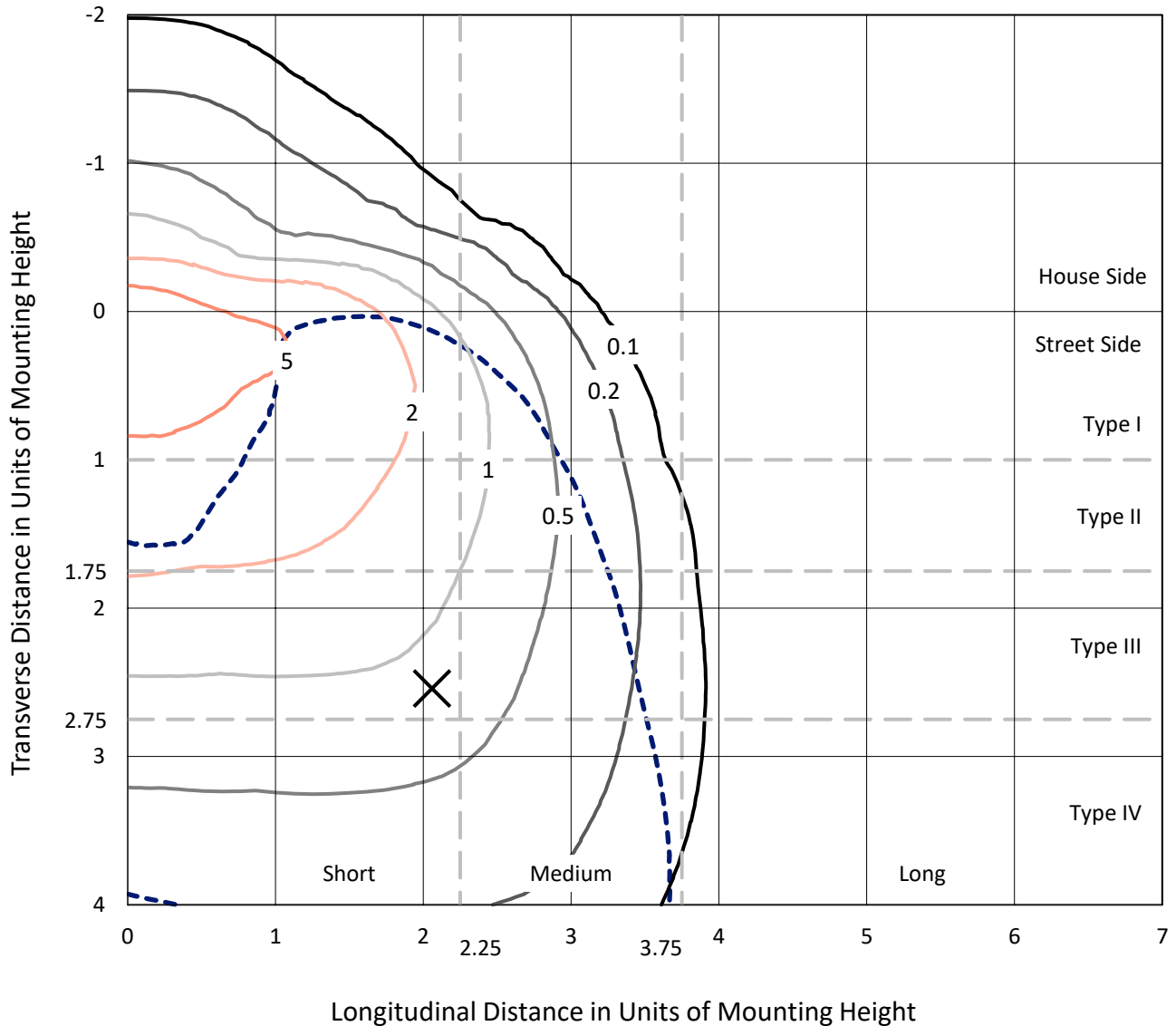
Lumens per Lamp: N/A
Luminaire Lumens: 42964.9 lumens
Efficiency: N/A
Efficacy: 101.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 422.6
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

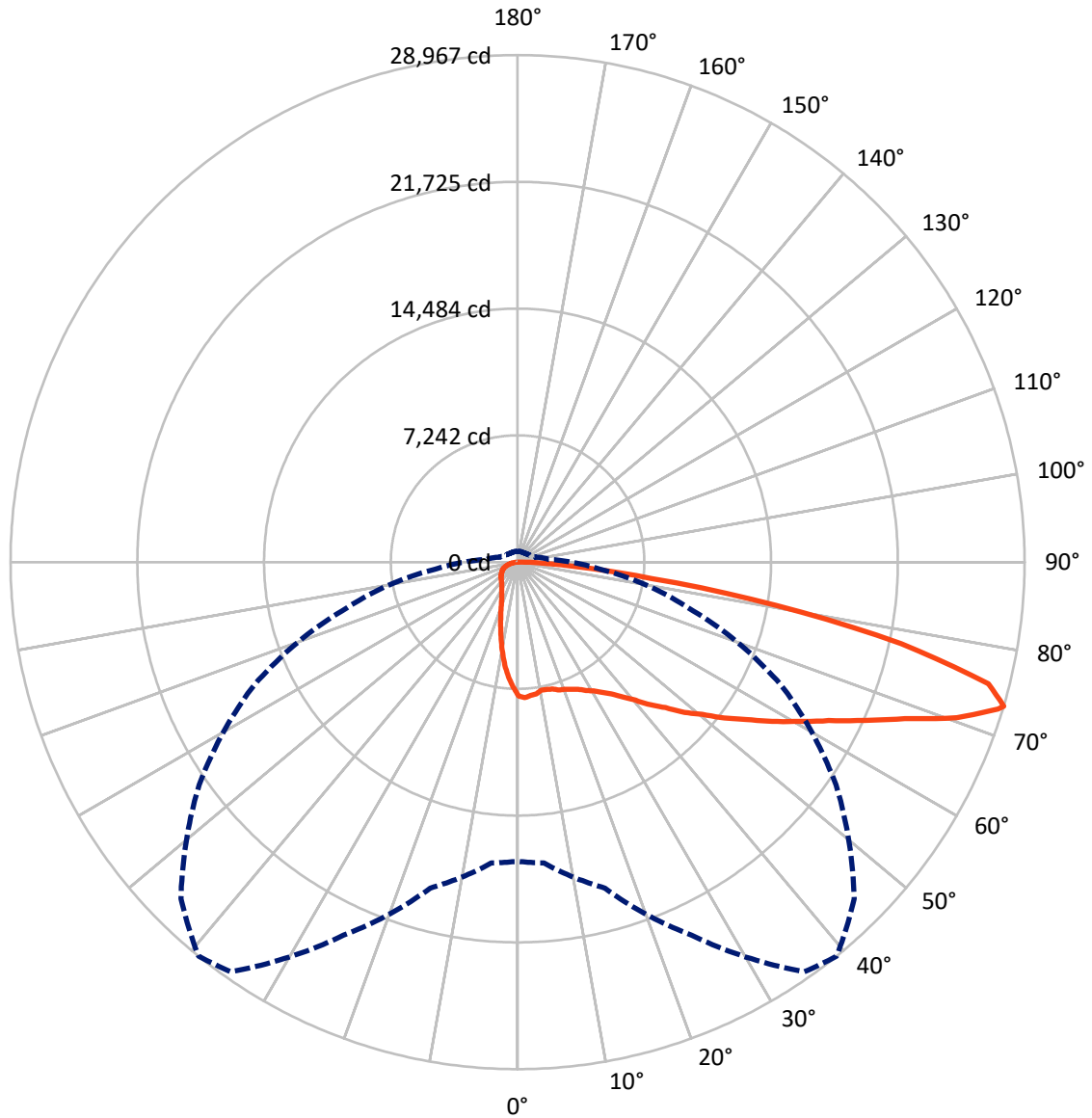
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8.5 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6039.7	0.0	6039.7
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	36925.2	0.0	36925.2
	% Fixture	85.9	0.0	85.9
Total	Lumens	42964.9	0.0	42964.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	663.9	1.5
10°-20°	1687.7	3.9
20°-30°	2579.1	6.0
30°-40°	3760.4	8.8
40°-50°	5682.3	13.2
50°-60°	8228.3	19.2
60°-70°	10454.4	24.3
70°-80°	8474.9	19.7
80°-90°	1433.9	3.3
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°	42964.9	100.0
0°-180°	42964.9	100.0

Coefficient of Utilization



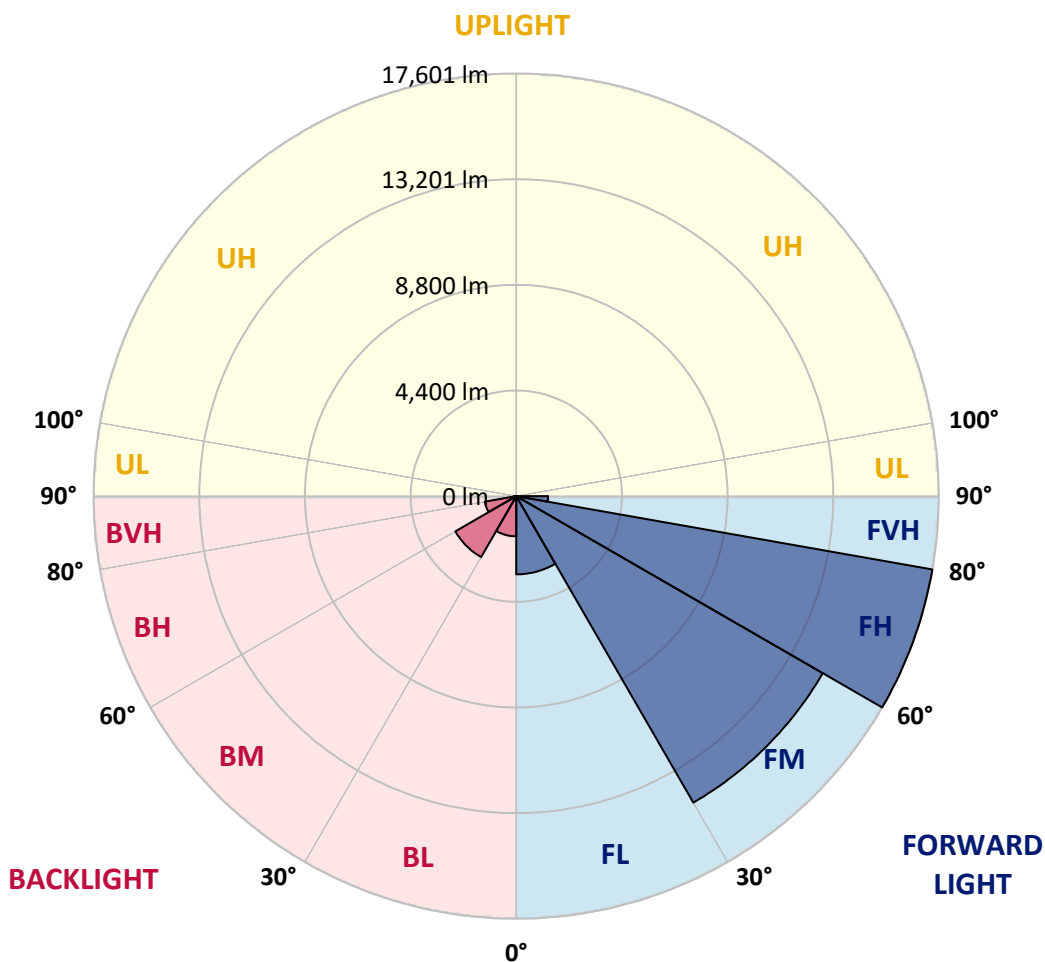
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3255.8	7.6			
FM (30°-60°)	14739.7	34.3			
FH (60°-80°)	17601.0	41.0			G5
FVH (80°-90°)	1328.7	3.1			G5
BL (0°-30°)	1674.9	3.9	B3/2500		
BM (30°-60°)	2931.2	6.8	B3/5000		
BH (60°-80°)	1328.3	3.1	B3/2500		G3/2500
BVH (80°-90°)	105.2	0.2			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	7648.0	7648.0	7648.0	7648.0	7648.0	7648.0	7648.0	7648.0	7648.0	7648.0	7648.0
2.5°	7830.7	7749.0	7763.4	7734.5	7763.4	7753.8	7739.3	7667.2	7739.3	7667.2	7648.0
5°	7724.9	7724.9	7773.0	7700.9	7710.5	7662.4	7710.5	7657.6	7609.5	7489.4	7455.7
7.5°	7691.3	7686.5	7691.3	7590.3	7638.4	7609.5	7561.5	7503.8	7407.7	7330.7	7220.2
10°	7460.5	7508.6	7455.7	7484.6	7523.0	7436.5	7431.7	7417.3	7374.0	7273.1	7205.8
12.5°	7335.5	7417.3	7446.1	7422.1	7455.7	7465.3	7436.5	7417.3	7364.4	7297.1	7104.8
15°	7388.4	7292.3	7374.0	7532.6	7499.0	7523.0	7527.8	7508.6	7484.6	7359.6	7234.6
17.5°	7402.8	7345.2	7518.2	7551.9	7595.1	7681.7	7624.0	7619.2	7527.8	7441.3	7258.6
20°	7436.5	7412.5	7551.9	7729.7	7734.5	7749.0	7777.8	7705.7	7657.6	7508.6	7229.8
22.5°	7561.5	7643.2	7773.0	7849.9	7893.2	7902.8	7902.8	7758.6	7705.7	7585.5	7364.4
25°	7936.4	7849.9	8032.6	8123.9	8061.4	8047.0	8013.3	7883.6	7825.9	7720.1	7426.9
27.5°	8210.4	8205.6	8311.4	8436.4	8268.1	8301.8	8181.6	8143.1	8013.3	7955.7	7537.4
30°	8585.4	8691.1	8686.3	8724.8	8503.7	8542.1	8388.3	8316.2	8244.1	8277.7	7864.3
32.5°	9066.1	9027.6	9090.1	9061.3	8840.2	8873.8	8691.1	8580.6	8604.6	8705.6	8311.4
35°	9373.7	9335.3	9359.3	9359.3	9292.0	9253.6	9176.6	9032.4	9147.8	9335.3	8811.3
37.5°	9705.4	9753.5	9892.9	9864.1	9777.5	9777.5	9767.9	9667.0	9816.0	10277.5	9609.3
40°	9998.6	10128.4	10215.0	10272.7	10373.6	10373.6	10455.3	10397.6	10666.8	11407.1	10585.1
42.5°	10306.3	10311.1	10782.2	10825.5	11051.4	11147.5	11210.0	11258.1	11762.8	12589.6	11628.2
45°	10700.5	10724.5	11137.9	11469.6	11820.5	11854.2	12089.7	12248.3	12868.5	13882.7	12762.7
47.5°	11219.6	11190.8	11633.0	12161.8	12599.3	12830.0	13113.6	13286.7	14051.0	15286.4	14002.9
50°	11902.2	11815.7	12070.5	12902.1	13416.5	13671.2	14176.0	14464.4	15358.5	16627.6	14853.8
52.5°	12733.9	12589.6	12791.5	13700.1	14276.9	14791.3	15272.0	15594.0	16526.6	17665.9	15483.5
55°	13613.5	13315.5	13373.2	14546.1	15377.7	15863.2	16521.8	16858.3	17810.1	18598.5	16113.2
57.5°	14483.6	14296.1	14180.8	15358.5	16690.1	17156.3	17762.0	18199.5	19007.0	19425.3	16646.8
60°	15214.3	15166.2	14978.7	16617.9	18079.3	18478.3	19112.8	19382.0	19992.5	20189.6	16656.4
62.5°	15815.2	15651.7	15949.8	17632.2	19492.6	19944.4	20641.4	20665.5	21098.1	20665.5	16166.1
65°	16286.3	16295.9	16771.8	18858.0	21127.0	21795.1	22357.6	22295.1	22016.3	20381.9	15007.6
67.5°	16714.1	16896.8	17593.8	20204.0	23227.6	23857.4	24482.3	23655.5	22266.2	19055.1	12743.5
70°	17050.6	17233.2	18704.2	21843.2	25703.3	26626.2	26765.6	24193.8	21117.3	16142.1	9614.1
72.5°	17012.1	17343.8	19333.9	23150.7	27900.1	28698.0	27573.2	22679.6	17593.8	11253.3	5609.8
73°	17093.8	17257.3	19281.1	23516.1	28568.3	28967.2	27198.3	22203.7	16593.9	10094.8	4744.6
75°	15517.1	16069.9	18324.4	22920.0	27852.0	27779.9	25044.7	18502.3	11796.5	5302.2	2297.8
77.5°	11479.2	11830.1	14440.4	18848.4	22862.3	22400.8	18891.7	11825.3	5600.2	1966.1	1240.2
80°	5609.8	5883.8	7652.8	10883.1	14949.9	14988.4	11724.4	6153.0	2398.7	1110.4	846.0
82.5°	2802.5	2965.9	3677.4	4783.0	7354.8	7705.7	5946.3	3499.5	1485.4	629.7	480.7
85°	1831.5	1946.9	2264.1	2341.0	3119.8	3292.8	2768.9	2730.4	966.2	341.3	389.4
87.5°	1216.2	1235.4	1389.2	1182.5	1249.8	1201.8	1336.4	1720.9	283.6	144.2	105.8
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°	7648.0	7648.0	7648.0	7648.0	7648.0	7648.0	7648.0	7648.0	7648.0	7648.0	7648.0
2.5°	7624.0	7556.7	7484.6	7383.6	7311.5	7201.0	7100.0	7056.7	7047.1	7051.9	7003.9
5°	7426.9	7330.7	7186.5	6979.8	6859.7	6677.0	6523.2	6441.4	6354.9	6369.3	6330.9
7.5°	7152.9	7047.1	6826.0	6585.6	6287.6	6028.0	5883.8	5681.9	5566.6	5480.0	5528.1
10°	7066.4	6883.7	6552.0	6220.3	5758.8	5417.5	5085.9	4855.1	4696.5	4542.7	4610.0
12.5°	7023.1	6840.4	6378.9	5888.6	5292.6	4773.4	4307.1	4023.5	3797.6	3663.0	3715.8
15°	6984.6	6758.7	6215.5	5523.3	4855.1	4172.5	3648.5	3273.6	3057.3	2927.5	2941.9
17.5°	7037.5	6715.4	5975.2	5167.6	4374.4	3643.7	3062.1	2672.7	2451.6	2369.9	2350.6
20°	6984.6	6667.4	5739.6	4811.9	3893.7	3139.0	2581.4	2259.3	2105.5	2038.2	2023.8
22.5°	7003.9	6552.0	5494.5	4417.7	3446.6	2716.0	2259.3	2014.2	1894.0	1860.3	1869.9
25°	7095.2	6484.7	5249.3	3985.0	3004.4	2403.5	2052.6	1865.1	1778.6	1745.0	1754.6
27.5°	7162.5	6542.4	5028.2	3576.4	2629.5	2124.7	1879.6	1754.6	1696.9	1672.9	1668.0
30°	7330.7	6576.0	4811.9	3211.1	2321.8	1942.0	1759.4	1658.4	1620.0	1605.6	1600.7
32.5°	7580.7	6638.5	4561.9	2874.6	2095.9	1769.0	1663.2	1576.7	1567.1	1552.7	1557.5
35°	7989.3	6854.8	4283.1	2586.2	1879.6	1653.6	1562.3	1504.6	1504.6	1504.6	1519.0
37.5°	8575.8	7157.7	4033.1	2312.2	1740.1	1552.7	1475.8	1456.5	1446.9	1461.3	1471.0
40°	9330.5	7523.0	3831.2	2095.9	1620.0	1485.4	1418.1	1408.5	1403.7	1398.8	1408.5
42.5°	10157.3	7989.3	3658.2	1927.6	1533.4	1413.3	1365.2	1355.6	1336.4	1346.0	1360.4
45°	10979.3	8566.2	3504.3	1793.0	1475.8	1374.8	1307.5	1302.7	1293.1	1288.3	1312.3
47.5°	11892.6	9133.4	3456.3	1711.3	1432.5	1317.1	1269.1	1264.3	1235.4	1230.6	1249.8
50°	12604.1	9551.6	3509.1	1672.9	1370.0	1273.9	1240.2	1216.2	1192.1	1168.1	1168.1
52.5°	13094.4	9840.0	3547.6	1644.0	1336.4	1216.2	1172.9	1163.3	1139.3	1115.2	1105.6
55°	13536.6	10013.1	3557.2	1648.8	1302.7	1148.9	1120.0	1115.2	1100.8	1062.4	1052.7
57.5°	13685.7	9941.0	3364.9	1605.6	1283.5	1105.6	1067.2	1076.8	1057.5	1023.9	1019.1
60°	13671.2	9441.0	2927.5	1547.9	1240.2	1057.5	1009.5	1038.3	1038.3	999.9	995.1
62.5°	12839.6	8287.3	2393.9	1437.3	1192.1	1009.5	956.6	999.9	1014.3	990.3	985.4
65°	11113.9	6749.1	1999.7	1326.7	1120.0	956.6	903.7	951.8	975.8	966.2	961.4
67.5°	9195.9	5162.8	1663.2	1182.5	1028.7	884.5	841.2	874.9	889.3	894.1	898.9
70°	6499.1	3437.0	1389.2	1023.9	903.7	807.6	759.5	764.3	759.5	773.9	773.9
72.5°	3533.2	1980.5	1129.7	870.1	778.7	701.8	668.2	644.1	644.1	639.3	639.3
73°	3023.6	1778.6	1076.8	846.0	745.1	682.6	644.1	624.9	624.9	620.1	615.3
75°	1696.9	1302.7	923.0	725.9	644.1	596.1	567.2	538.4	533.6	533.6	533.6
77.5°	1115.2	1014.3	735.5	581.7	519.2	475.9	466.3	437.4	437.4	437.4	432.6
80°	836.4	798.0	567.2	442.2	399.0	365.3	355.7	336.5	331.7	312.5	317.3
82.5°	557.6	629.7	413.4	312.5	269.2	250.0	250.0	245.2	230.7	206.7	206.7
85°	442.2	514.4	298.0	192.3	158.6	134.6	139.4	134.6	129.8	105.8	100.9
87.5°	81.7	206.7	86.5	52.9	38.5	24.0	24.0	14.4	9.6	0.0	0.0
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)