

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: P480875

Luminaire Tested: **IFLD-L-SA7D-735-U-SL4**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480875
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7D-735-U-SL4
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens
Light Source: (112) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

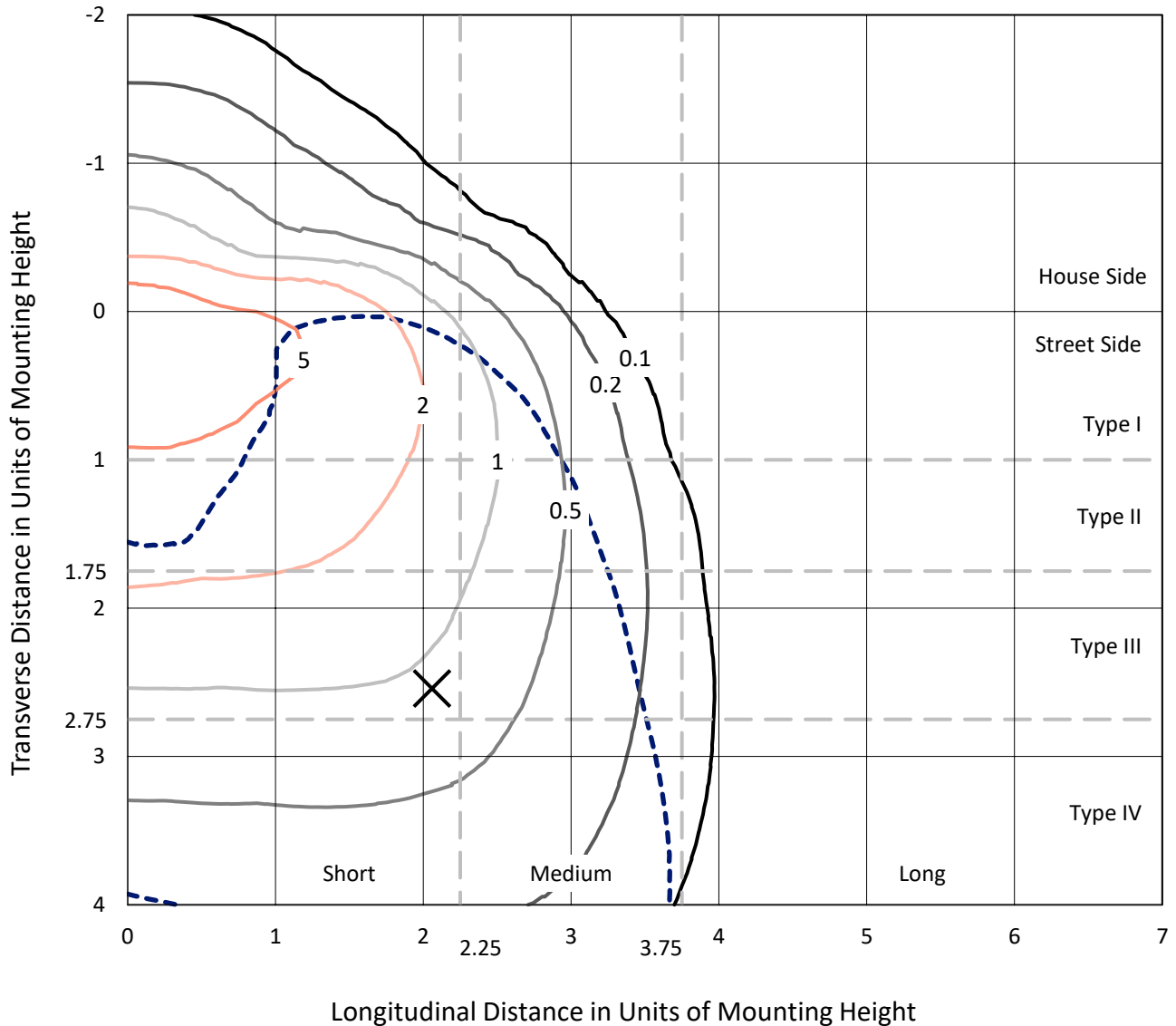
Lumens per Lamp: N/A
Luminaire Lumens: 46536.6 lumens
Efficiency: N/A
Efficacy: 110.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

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

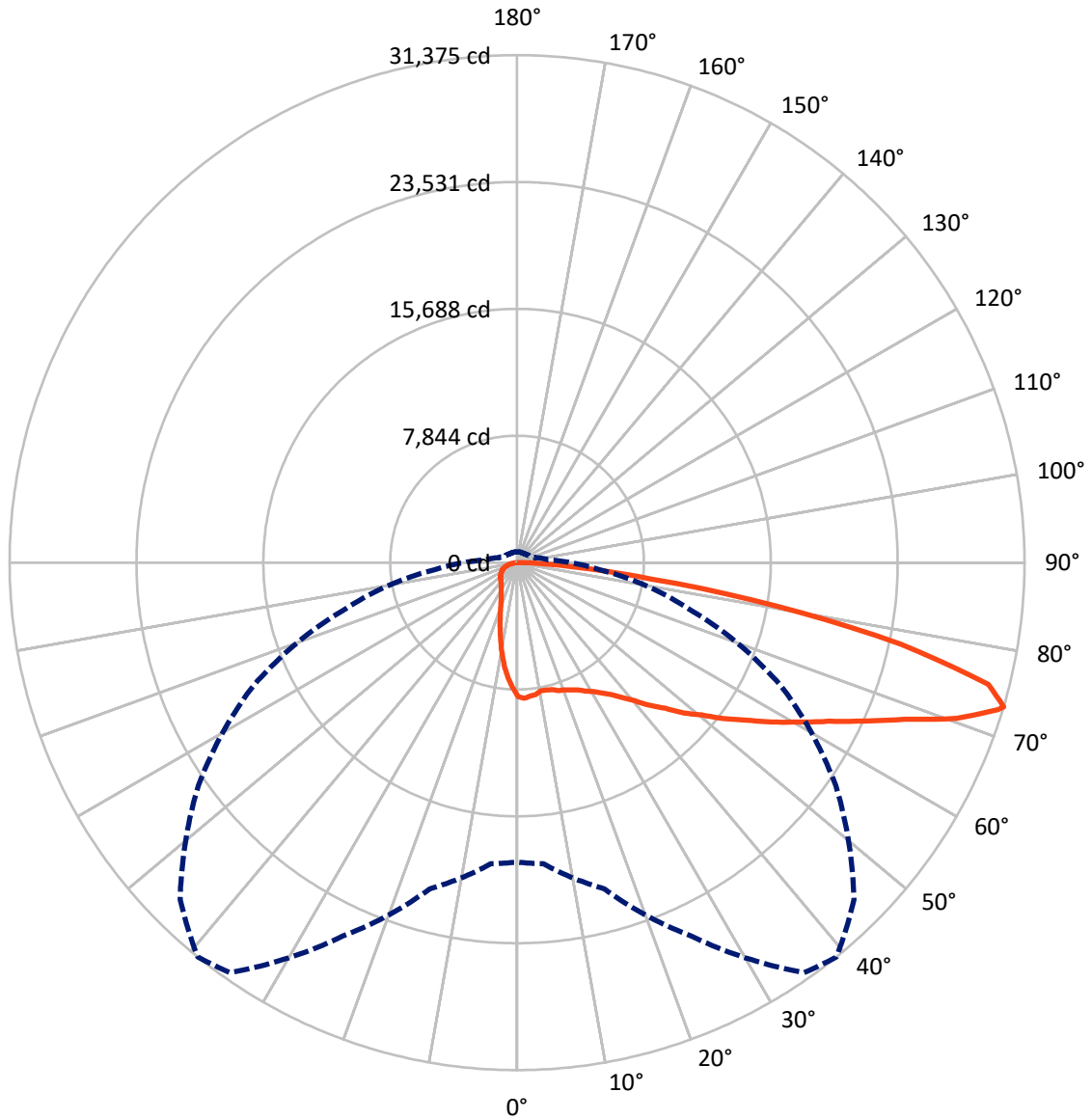
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 9.2 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	6541.8	0.0	6541.8
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	39994.9	0.0	39994.9
	% Fixture	85.9	0.0	85.9
Total	Lumens	46536.6	0.0	46536.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	719.1	1.5
10°-20°	1828.0	3.9
20°-30°	2793.5	6.0
30°-40°	4073.0	8.8
40°-50°	6154.7	13.2
50°-60°	8912.3	19.2
60°-70°	11323.5	24.3
70°-80°	9179.5	19.7
80°-90°	1553.1	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°	46536.6	100.0
0°-180°	46536.6	100.0

Coefficient of Utilization



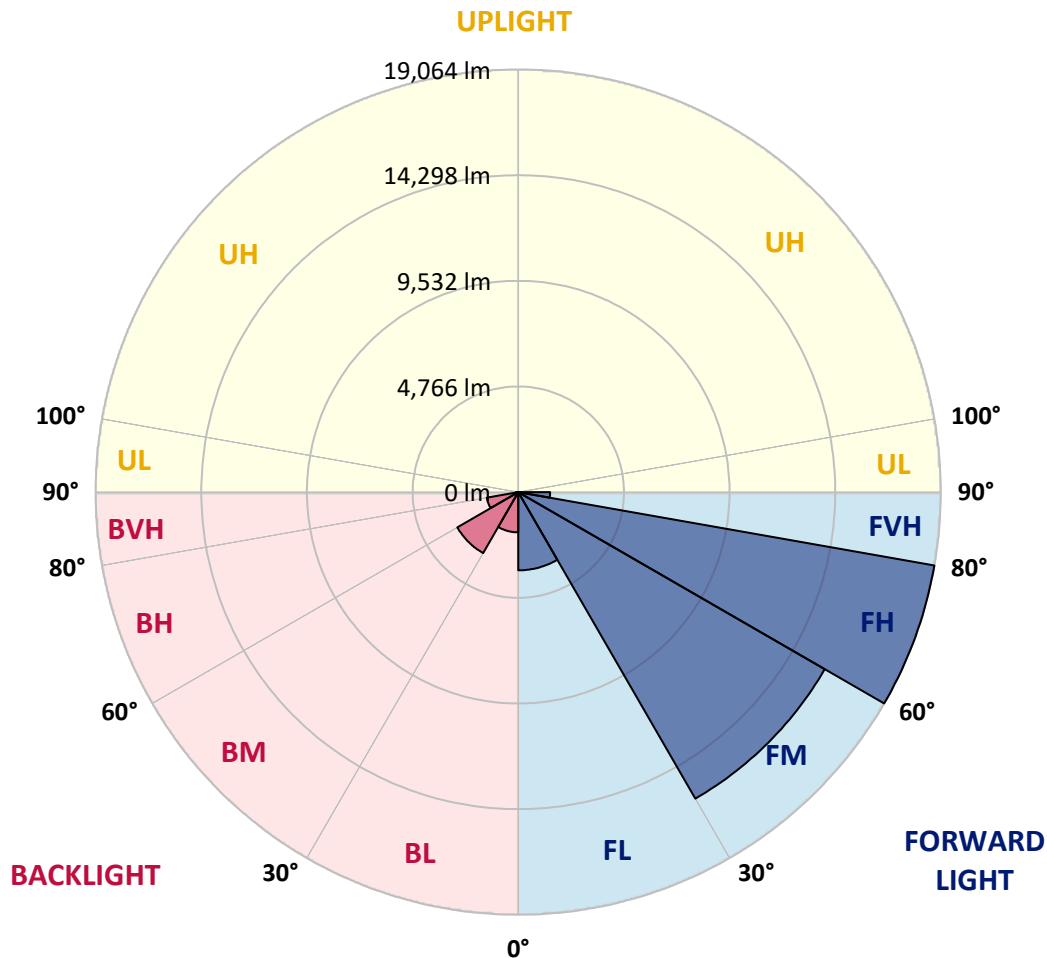
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3526.4	7.6			
FM (30°-60°)	15965.1	34.3			
FH (60°-80°)	19064.2	41.0			G5
FVH (80°-90°)	1439.2	3.1			G5
BL (0°-30°)	1814.2	3.9	B3/2500		
BM (30°-60°)	3174.9	6.8	B3/5000		
BH (60°-80°)	1438.8	3.1	B3/2500		G3/2500
BVH (80°-90°)	113.9	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°	8283.8	8283.8	8283.8	8283.8	8283.8	8283.8	8283.8	8283.8	8283.8	8283.8	8283.8
2.5°	8481.7	8393.1	8408.8	8377.5	8408.8	8398.3	8382.7	8304.6	8382.7	8304.6	8283.8
5°	8367.1	8367.1	8419.2	8341.1	8351.5	8299.4	8351.5	8294.2	8242.1	8112.0	8075.5
7.5°	8330.7	8325.5	8330.7	8221.3	8273.4	8242.1	8190.1	8127.6	8023.5	7940.2	7820.4
10°	8080.7	8132.8	8075.5	8106.8	8148.4	8054.7	8049.5	8033.9	7987.0	7877.7	7804.8
12.5°	7945.4	8033.9	8065.1	8039.1	8075.5	8085.9	8054.7	8033.9	7976.6	7903.7	7695.4
15°	8002.6	7898.5	7987.0	8158.8	8122.4	8148.4	8153.6	8132.8	8106.8	7971.4	7836.0
17.5°	8018.3	7955.8	8143.2	8179.7	8226.5	8320.2	8257.8	8252.6	8153.6	8059.9	7862.1
20°	8054.7	8028.7	8179.7	8372.3	8377.5	8393.1	8424.4	8346.3	8294.2	8132.8	7830.8
22.5°	8190.1	8278.6	8419.2	8502.5	8549.3	8559.8	8559.8	8403.6	8346.3	8216.1	7976.6
25°	8596.2	8502.5	8700.3	8799.3	8731.6	8716.0	8679.5	8538.9	8476.4	8361.9	8044.3
27.5°	8893.0	8887.8	9002.3	9137.7	8955.5	8991.9	8861.7	8820.1	8679.5	8617.0	8164.0
30°	9299.1	9413.6	9408.4	9450.1	9210.6	9252.2	9085.6	9007.5	8929.4	8965.9	8518.1
32.5°	9819.8	9778.1	9845.8	9814.6	9575.1	9611.5	9413.6	9293.9	9319.9	9429.3	9002.3
35°	10153.0	10111.3	10137.4	10137.4	10064.5	10022.8	9939.5	9783.3	9908.3	10111.3	9543.8
37.5°	10512.3	10564.3	10715.3	10684.1	10590.4	10590.4	10579.9	10470.6	10632.0	11131.8	10408.1
40°	10829.9	10970.4	11064.2	11126.6	11236.0	11236.0	11324.5	11262.0	11553.6	12355.4	11465.1
42.5°	11163.1	11168.3	11678.5	11725.4	11970.1	12074.2	12141.9	12194.0	12740.7	13636.2	12594.9
45°	11590.0	11616.1	12063.8	12423.1	12803.2	12839.6	13094.8	13266.6	13938.2	15036.8	13823.7
47.5°	12152.3	12121.1	12600.1	13172.9	13646.7	13896.6	14203.8	14391.2	15219.1	16557.2	15167.0
50°	12891.7	12798.0	13073.9	13974.7	14531.8	14807.7	15354.4	15666.8	16635.3	18009.8	16088.6
52.5°	13792.4	13636.2	13854.9	14839.0	15463.8	16020.9	16541.6	16890.4	17900.5	19134.5	16770.7
55°	14745.3	14422.5	14484.9	15755.4	16656.1	17182.0	17895.3	18259.8	19290.7	20144.6	17452.7
57.5°	15687.7	15484.6	15359.7	16635.3	18077.5	18582.6	19238.6	19712.4	20587.1	21040.1	18030.7
60°	16479.1	16427.0	16224.0	17999.4	19582.3	20014.4	20701.7	20993.3	21654.5	21868.0	18041.1
62.5°	17129.9	16952.9	17275.7	19098.0	21113.0	21602.4	22357.4	22383.4	22852.0	22383.4	17510.0
65°	17640.2	17650.6	18166.0	20425.7	22883.3	23607.0	24216.2	24148.5	23846.5	22076.2	16255.2
67.5°	18103.6	18301.4	19056.4	21883.6	25158.6	25840.7	26517.5	25622.0	24117.3	20639.2	13802.9
70°	18468.0	18665.9	20259.1	23659.1	27840.0	28839.7	28990.7	26205.1	22872.9	17484.0	10413.3
72.5°	18426.4	18785.6	20941.2	25075.3	30219.5	31083.8	29865.4	24565.0	19056.4	12188.8	6076.2
73°	18514.9	18691.9	20883.9	25471.0	30943.2	31375.3	29459.3	24049.6	17973.4	10934.0	5139.0
75°	16807.1	17405.9	19847.8	24825.4	30167.4	30089.3	27126.7	20040.4	12777.1	5742.9	2488.8
77.5°	12433.5	12813.6	15640.8	20415.3	24762.9	24263.0	20462.2	12808.4	6065.8	2129.5	1343.3
80°	6076.2	6373.0	8289.0	11787.9	16192.7	16234.4	12699.0	6664.5	2598.1	1202.7	916.4
82.5°	3035.5	3212.5	3983.1	5180.6	7966.2	8346.3	6440.6	3790.5	1608.9	682.1	520.7
85°	1983.7	2108.7	2452.3	2535.6	3379.1	3566.6	2999.0	2957.4	1046.5	369.7	421.7
87.5°	1317.3	1338.1	1504.7	1280.8	1353.7	1301.7	1447.5	1864.0	307.2	156.2	114.5
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°	8283.8	8283.8	8283.8	8283.8	8283.8	8283.8	8283.8	8283.8	8283.8	8283.8	8283.8
2.5°	8257.8	8184.9	8106.8	7997.4	7919.3	7799.6	7690.2	7643.4	7633.0	7638.2	7586.1
5°	8044.3	7940.2	7784.0	7560.1	7429.9	7232.1	7065.4	6976.9	6883.2	6898.8	6857.2
7.5°	7747.5	7633.0	7393.5	7133.1	6810.3	6529.2	6373.0	6154.3	6029.3	5935.6	5987.7
10°	7653.8	7455.9	7096.7	6737.4	6237.6	5867.9	5508.6	5258.7	5086.9	4920.3	4993.2
12.5°	7606.9	7409.1	6909.2	6378.2	5732.5	5170.2	4665.2	4358.0	4113.3	3967.5	4024.7
15°	7565.3	7320.6	6732.2	5982.5	5258.7	4519.4	3951.9	3545.7	3311.4	3170.9	3186.5
17.5°	7622.6	7273.7	6471.9	5597.2	4738.1	3946.7	3316.6	2894.9	2655.4	2566.9	2546.1
20°	7565.3	7221.6	6216.8	5211.9	4217.4	3400.0	2796.0	2447.1	2280.5	2207.6	2192.0
22.5°	7586.1	7096.7	5951.2	4784.9	3733.2	2941.8	2447.1	2181.6	2051.4	2015.0	2025.4
25°	7685.0	7023.8	5685.7	4316.3	3254.2	2603.3	2223.2	2020.2	1926.5	1890.0	1900.4
27.5°	7757.9	7086.3	5446.2	3873.8	2848.0	2301.3	2035.8	1900.4	1838.0	1811.9	1806.7
30°	7940.2	7122.7	5211.9	3478.1	2514.8	2103.5	1905.6	1796.3	1754.6	1739.0	1733.8
32.5°	8210.9	7190.4	4941.1	3113.6	2270.1	1916.1	1801.5	1707.8	1697.4	1681.8	1687.0
35°	8653.5	7424.7	4639.1	2801.2	2035.8	1791.1	1692.2	1629.7	1629.7	1629.7	1645.3
37.5°	9288.7	7752.7	4368.4	2504.4	1884.8	1681.8	1598.4	1577.6	1567.2	1582.8	1593.2
40°	10106.1	8148.4	4149.7	2270.1	1754.6	1608.9	1536.0	1525.6	1520.3	1515.1	1525.6
42.5°	11001.7	8653.5	3962.3	2087.9	1660.9	1530.8	1478.7	1468.3	1447.5	1457.9	1473.5
45°	11892.0	9278.3	3795.7	1942.1	1598.4	1489.1	1416.2	1411.0	1400.6	1395.4	1421.4
47.5°	12881.3	9892.7	3743.6	1853.6	1551.6	1426.6	1374.6	1369.4	1338.1	1332.9	1353.7
50°	13651.9	10345.6	3800.9	1811.9	1483.9	1379.8	1343.3	1317.3	1291.3	1265.2	1265.2
52.5°	14182.9	10658.0	3842.5	1780.7	1447.5	1317.3	1270.4	1260.0	1234.0	1207.9	1197.5
55°	14662.0	10845.5	3852.9	1785.9	1411.0	1244.4	1213.2	1207.9	1192.3	1150.7	1140.3
57.5°	14823.4	10767.4	3644.7	1739.0	1390.2	1197.5	1155.9	1166.3	1145.5	1109.0	1103.8
60°	14807.7	10225.9	3170.9	1676.5	1343.3	1145.5	1093.4	1124.6	1124.6	1083.0	1077.8
62.5°	13907.0	8976.3	2592.9	1556.8	1291.3	1093.4	1036.1	1083.0	1098.6	1072.6	1067.4
65°	12037.8	7310.2	2166.0	1437.0	1213.2	1036.1	978.9	1030.9	1057.0	1046.5	1041.3
67.5°	9960.3	5592.0	1801.5	1280.8	1114.2	958.0	911.2	947.6	963.2	968.4	973.6
70°	7039.4	3722.8	1504.7	1109.0	978.9	874.7	822.7	827.9	822.7	838.3	838.3
72.5°	3826.9	2145.1	1223.6	942.4	843.5	760.2	723.7	697.7	697.7	692.5	692.5
73°	3275.0	1926.5	1166.3	916.4	807.0	739.3	697.7	676.9	676.9	671.7	666.5
75°	1838.0	1411.0	999.7	786.2	697.7	645.6	614.4	583.1	577.9	577.9	577.9
77.5°	1207.9	1098.6	796.6	630.0	562.3	515.5	505.0	473.8	473.8	473.8	468.6
80°	906.0	864.3	614.4	479.0	432.2	395.7	385.3	364.5	359.3	338.4	343.6
82.5°	604.0	682.1	447.8	338.4	291.6	270.7	270.7	265.5	249.9	223.9	223.9
85°	479.0	557.1	322.8	208.3	171.8	145.8	151.0	145.8	140.6	114.5	109.3
87.5°	88.5	223.9	93.7	57.3	41.7	26.0	26.0	15.6	10.4	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)