

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: P480441

Luminaire Tested: **IFLD-M-SA4D-730-U-SL3**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480441
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4D-730-U-SL3
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens
Light Source: (64) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

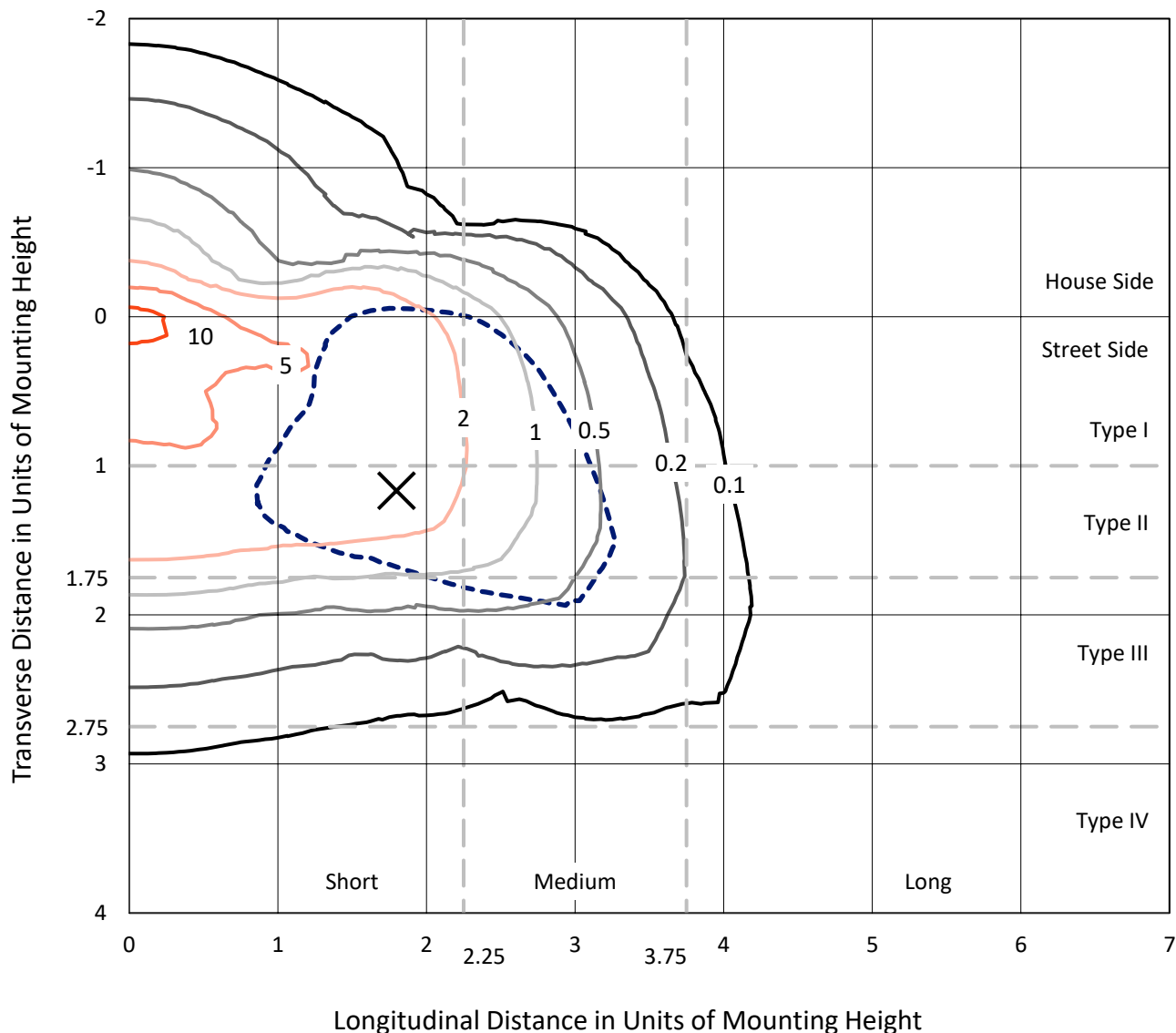
Lumens per Lamp: N/A
Luminaire Lumens: 28109 lumens
Efficiency: N/A
Efficacy: 112.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 249.7
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

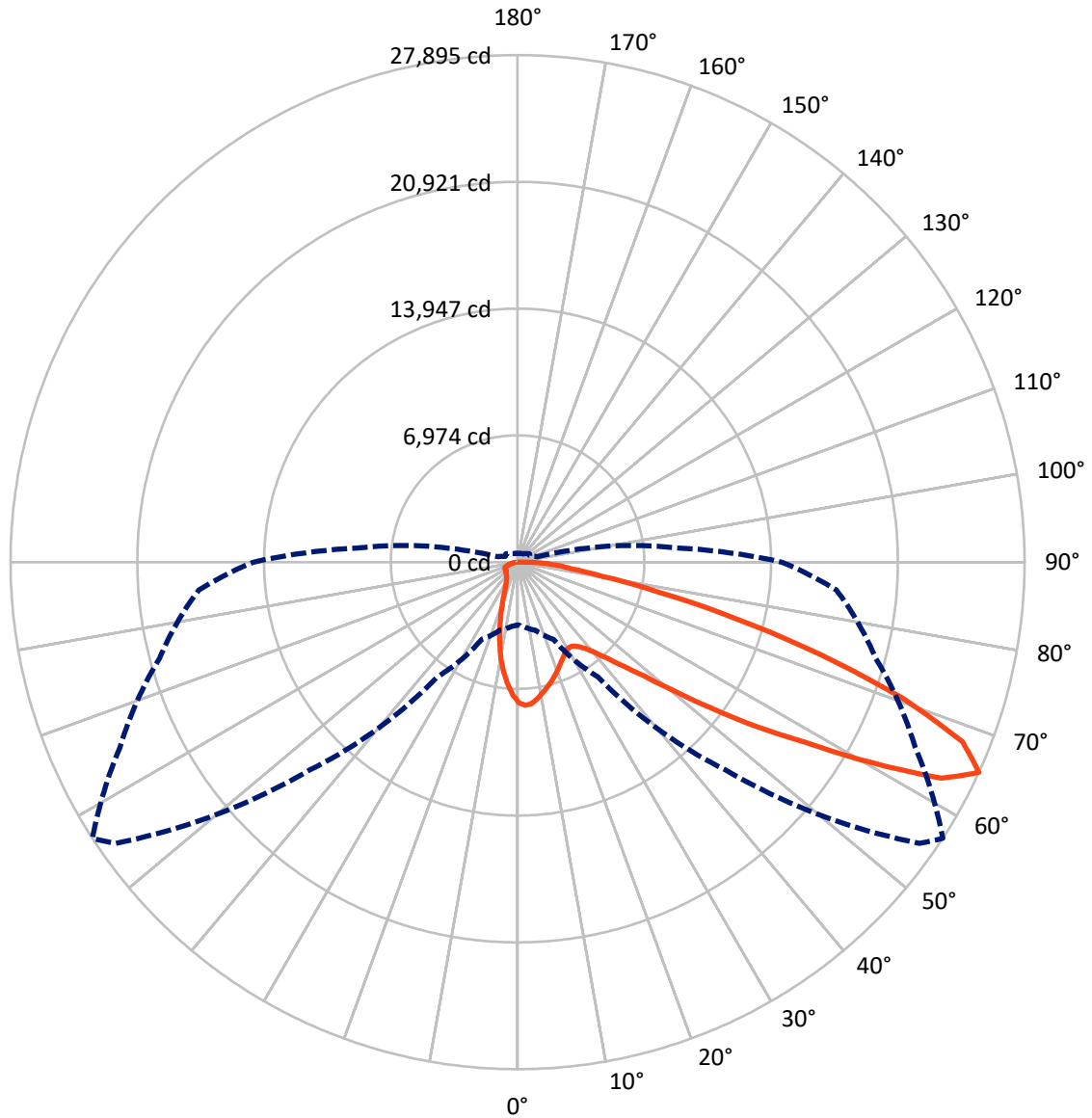
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.4 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4310.8	0.0	4310.8
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	23798.2	0.0	23798.2
	% Fixture	84.7	0.0	84.7
Total	Lumens	28109.0	0.0	28109.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	647.3	2.3
10°-20°	1393.1	5.0
20°-30°	1801.1	6.4
30°-40°	2423.7	8.6
40°-50°	3864.7	13.7
50°-60°	6826.1	24.3
60°-70°	7509.6	26.7
70°-80°	3141.4	11.2
80°-90°	502.1	1.8
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°	28109.0	100.0
0°-180°	28109.0	100.0

Coefficient of Utilization



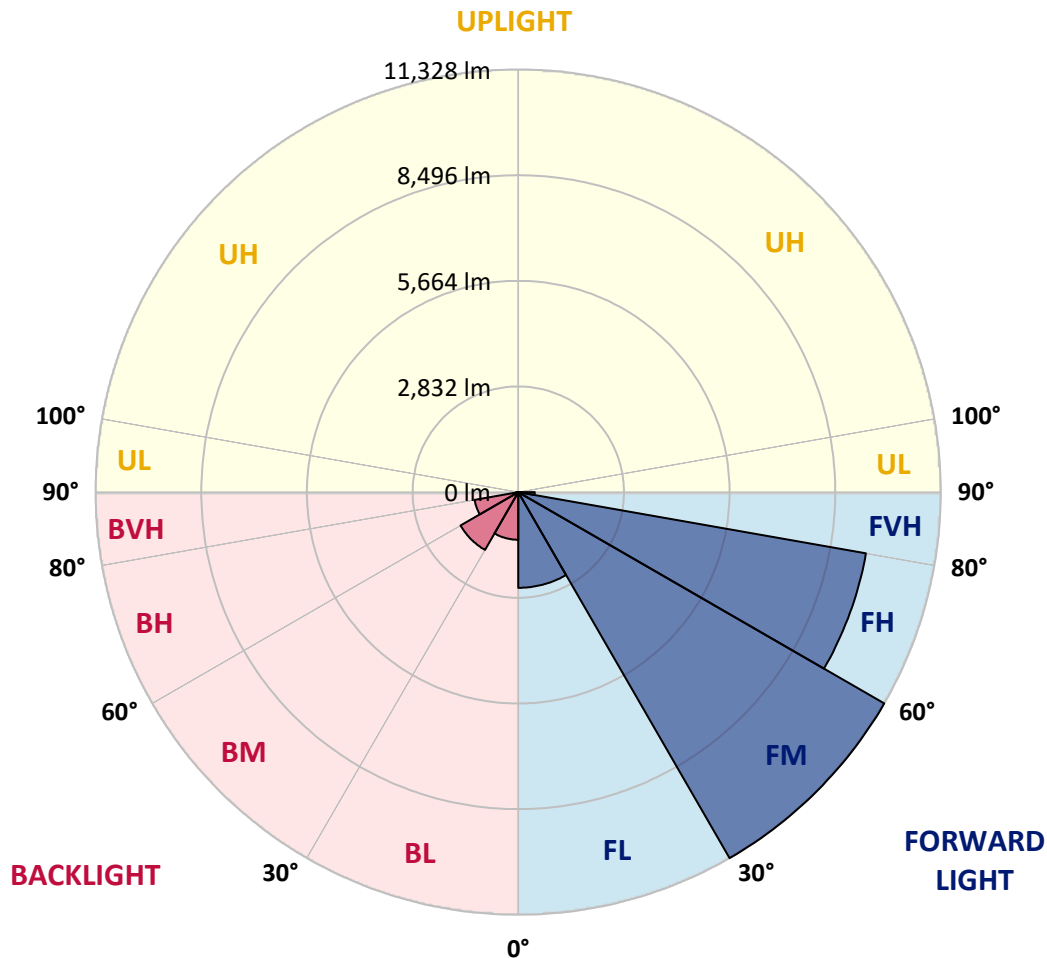
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2564.8	9.1			
FM (30°-60°)	11327.9	40.3			
FH (60°-80°)	9462.3	33.7			G4/12000
FVH (80°-90°)	443.2	1.6			G3/500
BL (0°-30°)	1276.6	4.5	B3/2500		
BM (30°-60°)	1786.6	6.4	B2/2500		
BH (60°-80°)	1188.6	4.2	B3/2500		G3/2500
BVH (80°-90°)	58.9	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	7729.6	7729.6	7729.6	7729.6	7729.6	7729.6	7729.6	7729.6	7729.6	7729.6	7729.6
2.5°	7938.3	7951.0	7951.0	7976.3	7890.9	7932.0	7925.7	7887.7	7900.4	7833.9	7767.5
5°	7713.8	7704.3	7754.9	7761.2	7827.6	7846.6	7862.4	7837.1	7843.4	7698.0	7634.7
7.5°	7138.2	7135.0	7220.4	7293.1	7432.3	7562.0	7647.3	7622.0	7656.8	7565.1	7416.5
10°	6455.0	6527.8	6616.3	6689.1	6945.2	7109.7	7331.1	7353.2	7486.1	7463.9	7195.1
12.5°	5942.7	5974.3	6040.7	6249.4	6483.5	6755.5	7071.7	7100.2	7229.9	7293.1	7059.1
15°	5522.0	5550.5	5635.9	5790.9	6053.4	6376.0	6777.6	6850.4	7109.7	7131.8	6882.0
17.5°	5215.3	5237.4	5294.3	5449.3	5664.4	6078.7	6458.2	6587.9	6929.4	7037.0	6698.5
20°	5095.1	5047.6	5079.3	5177.3	5392.4	5711.8	6202.0	6315.9	6752.3	6964.2	6524.6
22.5°	5041.3	5000.2	5019.2	5012.8	5183.6	5411.3	5926.9	6047.0	6584.7	6878.8	6369.6
25°	5082.4	5082.4	5063.4	5047.6	5066.6	5215.3	5629.6	5816.2	6360.1	6806.1	6211.5
27.5°	5303.8	5218.4	5227.9	5161.5	5142.5	5142.5	5496.7	5607.4	6287.4	6765.0	6081.8
30°	5446.1	5487.2	5490.4	5392.4	5294.3	5117.2	5373.4	5480.9	6227.3	6815.6	6005.9
32.5°	5809.8	5790.9	5737.1	5718.1	5572.6	5373.4	5433.5	5506.2	6192.5	6929.4	6028.1
35°	6173.5	6164.1	6167.2	6157.7	6005.9	5711.8	5594.8	5692.8	6255.8	7128.7	6104.0
37.5°	6549.9	6575.2	6682.7	6682.7	6521.4	6202.0	6047.0	6018.6	6486.6	7454.4	6284.2
40°	6926.3	6989.5	7125.5	7340.6	7112.9	6815.6	6565.7	6521.4	6765.0	7890.9	6717.5
42.5°	7286.8	7391.2	7660.0	7979.4	7903.5	7606.2	7274.2	7223.5	7337.4	8539.2	7321.6
45°	7748.6	7837.1	8260.9	8751.1	8855.5	8593.0	8204.0	8162.9	8156.5	9488.0	8153.4
47.5°	8450.7	8545.5	8969.3	9462.7	9785.3	9826.4	9390.0	9345.7	9193.9	10768.9	9371.0
50°	9329.9	9484.9	9842.2	10417.9	10885.9	11325.5	11202.2	11072.5	10775.2	12258.5	10914.4
52.5°	9971.9	10161.7	10645.6	11382.5	12207.9	12906.9	13349.7	13349.7	12666.5	13893.6	12770.9
55°	10142.7	10256.6	10867.0	11932.8	13346.5	15114.4	16041.1	15971.5	14918.3	15614.1	14931.0
57.5°	9462.7	9611.4	10351.4	11467.9	13944.2	17179.7	18713.5	18729.4	17378.9	17612.9	17062.6
60°	7590.4	7637.9	8510.8	10003.5	13368.6	18843.2	22363.3	22423.4	20177.9	19393.5	18147.4
62.5°	5246.9	5398.7	6056.5	7365.9	11075.7	18656.6	25883.3	26180.6	22420.2	20332.8	18318.2
65°	3453.6	3545.4	3896.4	4693.4	7710.6	16170.8	26977.6	27894.8	24134.4	20386.6	17603.4
67.5°	2504.8	2520.7	2625.0	3036.2	4633.3	11629.2	25108.5	26402.0	24776.4	19937.5	15927.2
70°	2024.1	2036.8	2074.7	2337.2	2991.9	7277.3	20478.3	22505.6	22850.3	17809.0	12827.8
72.5°	1644.6	1660.4	1707.8	1954.5	2466.9	4048.2	14975.3	17445.3	18587.0	13175.7	8526.6
75°	1293.5	1306.2	1420.0	1663.6	2318.2	2780.0	9934.0	12353.4	12508.4	7701.1	3991.3
77.5°	885.5	907.7	1046.8	1410.6	2182.2	2432.1	6192.5	7913.0	7100.2	3014.0	1372.6
80°	563.0	594.6	676.8	1069.0	1929.2	2321.4	3852.1	4725.0	3108.9	1031.0	661.0
82.5°	332.1	363.7	445.9	692.6	1514.9	2153.8	2713.6	2957.1	1458.0	528.2	398.5
85°	183.4	205.6	268.8	417.5	888.7	1913.4	2172.8	2122.2	834.9	281.5	249.9
87.5°	60.1	69.6	98.0	167.6	366.9	901.4	1303.0	1224.0	433.3	129.7	98.0
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°	7729.6	7729.6	7729.6	7729.6	7729.6	7729.6	7729.6	7729.6	7729.6	7729.6	7729.6
2.5°	7723.3	7713.8	7571.4	7463.9	7280.5	7128.7	7068.6	6986.3	6983.2	6923.1	6907.3
5°	7536.7	7438.6	7220.4	7011.7	6685.9	6467.7	6268.4	6129.3	6072.3	5949.0	5920.5
7.5°	7296.3	7166.6	6831.4	6439.2	6056.5	5715.0	5405.0	5095.1	4921.1	4861.0	4794.6
10°	7046.4	6818.7	6322.2	5882.6	5348.1	4823.1	4336.0	3899.6	3662.4	3494.8	3422.0
12.5°	6847.2	6543.6	5911.0	5253.2	4547.9	3845.8	3279.7	2821.1	2552.3	2425.8	2368.8
15°	6622.6	6221.0	5461.9	4630.2	3750.9	2953.9	2400.5	2039.9	1932.4	1872.3	1862.8
17.5°	6385.4	5920.5	4974.9	4016.6	2972.9	2223.4	1866.0	1720.5	1673.1	1647.8	1635.1
20°	6164.1	5651.7	4475.2	3333.5	2327.7	1783.7	1616.1	1540.2	1537.1	1549.7	1546.5
22.5°	5850.9	5300.6	3981.8	2700.9	1859.7	1552.9	1445.3	1426.4	1445.3	1461.2	1467.5
25°	5673.8	5012.8	3431.5	2144.3	1537.1	1378.9	1344.1	1337.8	1366.3	1385.3	1382.1
27.5°	5490.4	4715.5	2919.1	1717.3	1347.3	1255.6	1249.3	1255.6	1284.0	1312.5	1309.3
30°	5348.1	4478.3	2438.4	1435.9	1201.8	1167.0	1160.7	1167.0	1182.8	1186.0	1186.0
32.5°	5231.1	4196.9	2030.4	1246.1	1113.3	1084.8	1091.1	1088.0	1091.1	1094.3	1097.4
35°	5161.5	4029.2	1695.2	1129.1	1040.5	1018.4	1015.2	1005.7	1008.9	1012.1	1008.9
37.5°	5310.1	3947.0	1429.5	1046.8	989.9	970.9	964.6	958.3	948.8	948.8	948.8
40°	5534.7	3902.7	1268.2	993.1	952.0	929.8	910.9	904.5	904.5	907.7	910.9
42.5°	5980.6	3975.5	1157.5	952.0	904.5	879.2	860.2	863.4	872.9	882.4	876.1
45°	6625.8	4196.9	1106.9	920.3	876.1	841.3	828.6	825.5	834.9	850.8	863.4
47.5°	7470.2	4541.6	1088.0	891.9	857.1	809.6	793.8	803.3	816.0	838.1	828.6
50°	8852.3	5316.5	1103.8	866.6	828.6	793.8	774.9	765.4	774.9	790.7	797.0
52.5°	10658.2	6723.8	1163.9	853.9	809.6	781.2	749.6	733.7	743.2	755.9	755.9
55°	12818.3	8646.8	1331.5	838.1	778.0	762.2	727.4	695.8	702.1	702.1	699.0
57.5°	14722.3	10098.4	1530.7	816.0	759.0	736.9	692.6	654.7	648.3	651.5	654.7
60°	15576.2	10484.3	1625.6	809.6	759.0	705.3	645.2	607.2	597.7	591.4	591.4
62.5°	15427.5	9816.9	1432.7	781.2	778.0	680.0	600.9	559.8	547.1	534.5	537.7
65°	14529.3	8865.0	1129.1	743.2	781.2	664.2	556.6	515.5	493.4	477.6	474.4
67.5°	12887.9	7568.3	895.0	714.8	749.6	635.7	518.7	471.2	452.3	436.4	430.1
70°	10082.6	5933.2	778.0	676.8	673.6	566.1	474.4	433.3	404.8	385.8	385.8
72.5°	6537.2	3750.9	667.3	600.9	581.9	474.4	411.1	385.8	363.7	347.9	347.9
75°	2960.3	1742.6	537.7	502.9	474.4	379.5	347.9	335.2	316.3	300.5	300.5
77.5°	1062.7	743.2	401.7	395.3	354.2	294.1	281.5	272.0	259.3	243.5	243.5
80°	594.6	471.2	300.5	287.8	246.7	218.2	202.4	202.4	196.1	186.6	183.4
82.5°	376.4	306.8	221.4	192.9	161.3	145.5	139.2	136.0	132.8	120.2	117.0
85°	237.2	208.7	145.5	113.9	94.9	72.7	69.6	66.4	60.1	53.8	53.8
87.5°	107.5	120.2	56.9	34.8	25.3	15.8	9.5	3.2	0.0	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)