

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: P480839

Luminaire Tested: **IFLD-L-SA8B-730-U-SL4**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480839
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8B-730-U-SL4
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens
Light Source: (128) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

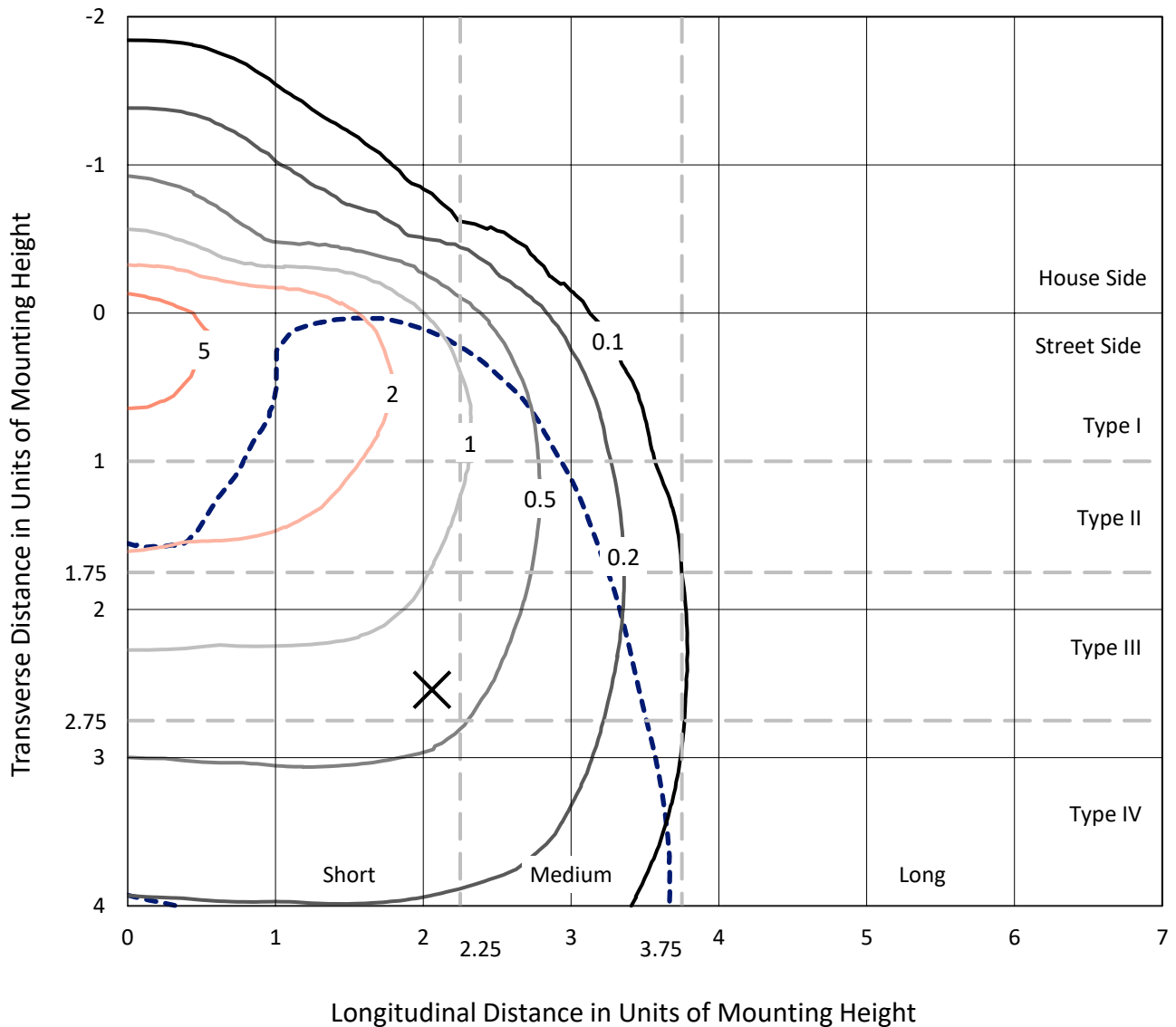
Lumens per Lamp: N/A
Luminaire Lumens: 35847.6 lumens
Efficiency: N/A
Efficacy: 112.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 320
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

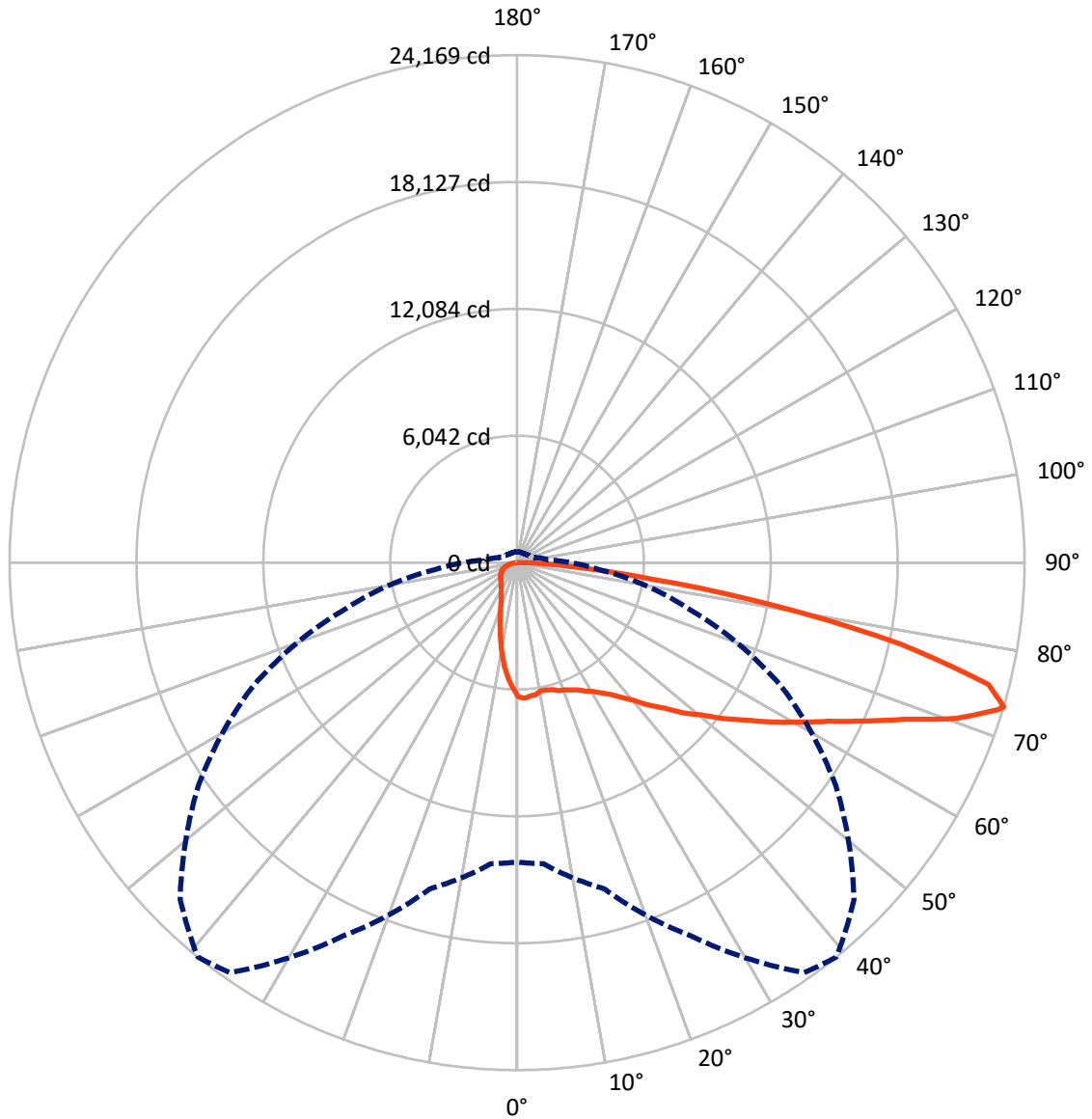
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.1 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	5039.2	0.0	5039.2
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	30808.4	0.0	30808.4
	% Fixture	85.9	0.0	85.9
Total	Lumens	35847.6	0.0	35847.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	553.9	1.5
10°-20°	1408.2	3.9
20°-30°	2151.8	6.0
30°-40°	3137.4	8.8
40°-50°	4741.0	13.2
50°-60°	6865.2	19.2
60°-70°	8722.6	24.3
70°-80°	7071.0	19.7
80°-90°	1196.4	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°	35847.6	100.0
0°-180°	35847.6	100.0

Coefficient of Utilization

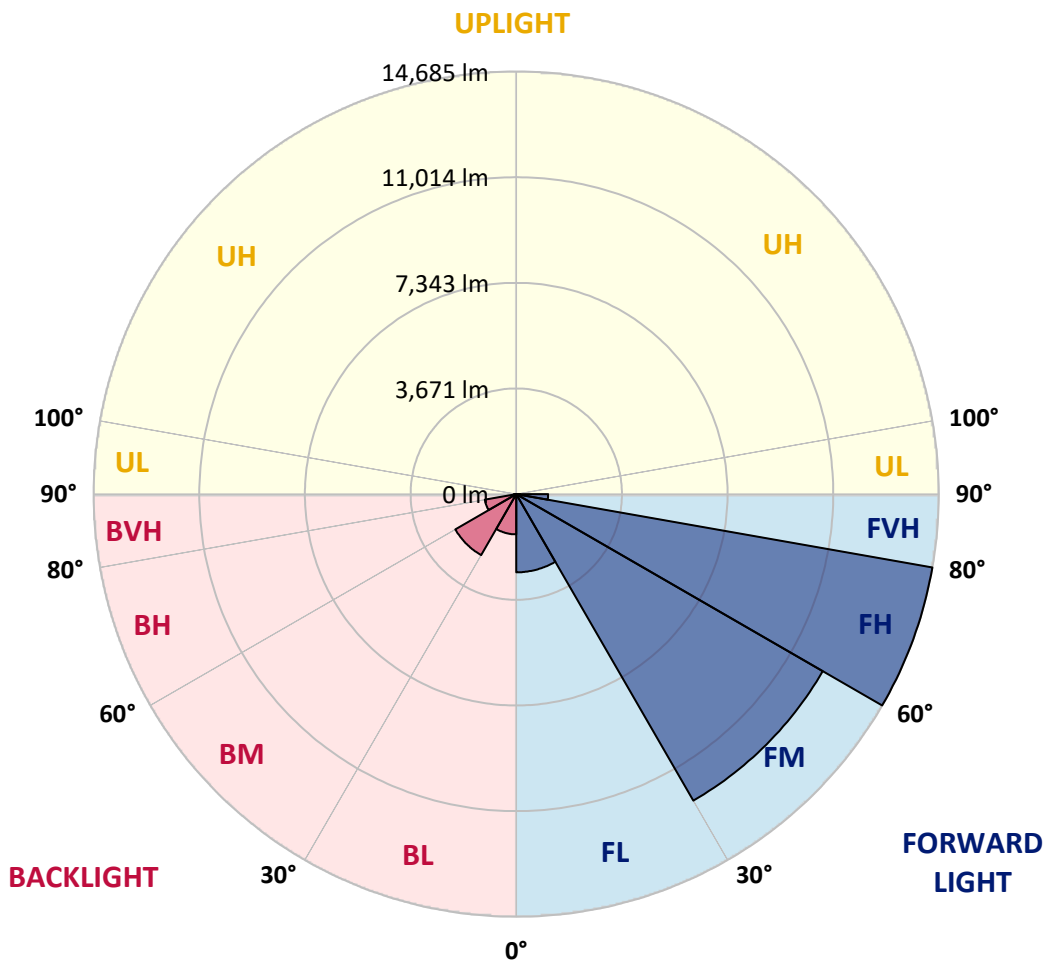


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2716.5	7.6			
FM (30°-60°)	12298.0	34.3			
FH (60°-80°)	14685.3	41.0			G5
FVH (80°-90°)	1108.6	3.1			G5
BL (0°-30°)	1397.5	3.9	B3/2500		
BM (30°-60°)	2445.6	6.8	B2/2500		
BH (60°-80°)	1108.3	3.1	B3/2500		G3/2500
BVH (80°-90°)	87.8	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-G5
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	6381.1	6381.1	6381.1	6381.1	6381.1	6381.1	6381.1	6381.1	6381.1	6381.1	6381.1
2.5°	6533.5	6465.3	6477.4	6453.3	6477.4	6469.3	6457.3	6397.1	6457.3	6397.1	6381.1
5°	6445.3	6445.3	6485.4	6425.2	6433.2	6393.1	6433.2	6389.1	6349.0	6248.7	6220.7
7.5°	6417.2	6413.2	6417.2	6333.0	6373.1	6349.0	6308.9	6260.8	6180.6	6116.4	6024.1
10°	6224.7	6264.8	6220.7	6244.7	6276.8	6204.6	6200.6	6188.6	6152.5	6068.3	6012.1
12.5°	6120.4	6188.6	6212.6	6192.6	6220.7	6228.7	6204.6	6188.6	6144.5	6088.3	5927.9
15°	6164.5	6084.3	6152.5	6284.8	6256.8	6276.8	6280.8	6264.8	6244.7	6140.4	6036.2
17.5°	6176.5	6128.4	6272.8	6300.9	6337.0	6409.2	6361.0	6357.0	6280.8	6208.6	6056.2
20°	6204.6	6184.6	6300.9	6449.3	6453.3	6465.3	6489.4	6429.2	6389.1	6264.8	6032.2
22.5°	6308.9	6377.1	6485.4	6549.5	6585.6	6593.7	6593.7	6473.3	6429.2	6329.0	6144.5
25°	6621.7	6549.5	6702.0	6778.2	6726.0	6714.0	6685.9	6577.6	6529.5	6441.3	6196.6
27.5°	6850.3	6846.3	6934.6	7038.9	6898.5	6926.6	6826.3	6794.2	6685.9	6637.8	6288.8
30°	7163.2	7251.4	7247.4	7279.5	7095.0	7127.1	6998.7	6938.6	6878.4	6906.5	6561.6
32.5°	7564.3	7532.2	7584.3	7560.3	7375.8	7403.8	7251.4	7159.2	7179.2	7263.5	6934.6
35°	7820.9	7788.9	7808.9	7808.9	7752.8	7720.7	7656.5	7536.2	7632.4	7788.9	7351.7
37.5°	8097.7	8137.8	8254.1	8230.0	8157.9	8157.9	8149.8	8065.6	8189.9	8575.0	8017.5
40°	8342.3	8450.6	8522.8	8571.0	8655.2	8655.2	8723.4	8675.2	8899.8	9517.5	8831.7
42.5°	8599.0	8603.0	8996.1	9032.2	9220.7	9300.9	9353.1	9393.2	9814.3	10504.1	9702.0
45°	8927.9	8948.0	9292.9	9569.6	9862.4	9890.5	10087.0	10219.4	10736.8	11583.0	10648.5
47.5°	9361.1	9337.0	9706.0	10147.2	10512.2	10704.7	10941.3	11085.7	11723.4	12754.2	11683.3
50°	9930.6	9858.4	10071.0	10764.8	11194.0	11406.6	11827.7	12068.3	12814.3	13873.2	12393.2
52.5°	10624.5	10504.1	10672.6	11430.6	11911.9	12341.1	12742.1	13010.9	13788.9	14739.5	12918.6
55°	11358.4	11109.8	11157.9	12136.5	12830.4	13235.5	13784.9	14065.7	14859.8	15517.6	13444.0
57.5°	12084.4	11928.0	11831.7	12814.3	13925.3	14314.3	14819.7	15184.7	15858.5	16207.4	13889.2
60°	12694.0	12653.9	12497.5	13865.1	15084.4	15417.3	15946.7	16171.3	16680.7	16845.1	13897.2
62.5°	13195.3	13059.0	13307.6	14711.4	16263.6	16640.6	17222.1	17242.2	17603.2	17242.2	13488.1
65°	13588.4	13596.4	13993.5	15734.1	17627.2	18184.7	18654.0	18601.8	18369.2	17005.6	12521.5
67.5°	13945.4	14097.8	14679.3	16857.2	19379.9	19905.3	20426.7	19736.9	18577.8	15898.6	10632.5
70°	14226.1	14378.5	15605.8	18224.8	21445.4	22215.5	22331.8	20186.1	17619.2	13468.1	8021.5
72.5°	14194.0	14470.8	16131.2	19315.7	23278.4	23944.1	23005.6	18922.7	14679.3	9389.1	4680.5
73°	14262.2	14398.6	16087.1	19620.6	23835.8	24168.7	22692.8	18525.6	13845.1	8422.6	3958.6
75°	12946.7	13407.9	15289.0	19123.2	23238.2	23178.1	20896.0	15437.4	9842.4	4423.8	1917.1
77.5°	9577.7	9870.4	12048.3	15726.1	19075.1	18690.1	15762.2	9866.4	4672.5	1640.4	1034.8
80°	4680.5	4909.1	6385.1	9080.3	12473.4	12505.5	9782.2	5133.8	2001.4	926.5	705.9
82.5°	2338.3	2474.6	3068.2	3990.7	6136.4	6429.2	4961.3	2919.8	1239.3	525.4	401.1
85°	1528.1	1624.4	1889.1	1953.2	2603.0	2747.4	2310.2	2278.1	806.2	284.8	324.9
87.5°	1014.7	1030.8	1159.1	986.6	1042.8	1002.7	1115.0	1435.8	236.6	120.3	88.2
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°	6381.1	6381.1	6381.1	6381.1	6381.1	6381.1	6381.1	6381.1	6381.1	6381.1	6381.1
2.5°	6361.0	6304.9	6244.7	6160.5	6100.3	6008.1	5923.9	5887.8	5879.7	5883.8	5843.7
5°	6196.6	6116.4	5996.1	5823.6	5723.3	5570.9	5442.6	5374.4	5302.2	5314.2	5282.1
7.5°	5968.0	5879.7	5695.3	5494.7	5246.1	5029.5	4909.1	4740.7	4644.4	4572.2	4612.4
10°	5895.8	5743.4	5466.6	5189.9	4804.9	4520.1	4243.4	4050.9	3918.5	3790.2	3846.3
12.5°	5859.7	5707.3	5322.3	4913.2	4415.8	3982.7	3593.6	3357.0	3168.5	3056.2	3100.3
15°	5827.6	5639.1	5185.9	4608.3	4050.9	3481.3	3044.2	2731.3	2550.8	2442.5	2454.6
17.5°	5871.7	5603.0	4985.4	4311.5	3649.8	3040.1	2554.8	2230.0	2045.5	1977.3	1961.3
20°	5827.6	5562.9	4788.8	4014.8	3248.7	2619.0	2153.8	1885.0	1756.7	1700.6	1688.5
22.5°	5843.7	5466.6	4584.3	3685.9	2875.7	2266.1	1885.0	1680.5	1580.2	1552.2	1560.2
25°	5919.9	5410.5	4379.7	3324.9	2506.7	2005.4	1712.6	1556.2	1484.0	1455.9	1463.9
27.5°	5976.0	5458.6	4195.2	2984.0	2193.9	1772.7	1568.2	1463.9	1415.8	1395.7	1391.7
30°	6116.4	5486.7	4014.8	2679.2	1937.2	1620.3	1467.9	1383.7	1351.6	1339.6	1335.6
32.5°	6324.9	5538.8	3806.2	2398.4	1748.7	1476.0	1387.7	1315.5	1307.5	1295.5	1299.5
35°	6665.9	5719.3	3573.6	2157.8	1568.2	1379.7	1303.5	1255.4	1255.4	1255.4	1267.4
37.5°	7155.2	5972.0	3365.0	1929.2	1451.9	1295.5	1231.3	1215.3	1207.2	1219.3	1227.3
40°	7784.9	6276.8	3196.6	1748.7	1351.6	1239.3	1183.2	1175.1	1171.1	1167.1	1175.1
42.5°	8474.7	6665.9	3052.2	1608.3	1279.4	1179.2	1139.1	1131.0	1115.0	1123.0	1135.0
45°	9160.5	7147.1	2923.8	1496.0	1231.3	1147.1	1090.9	1086.9	1078.9	1074.9	1094.9
47.5°	9922.6	7620.4	2883.7	1427.8	1195.2	1098.9	1058.8	1054.8	1030.8	1026.8	1042.8
50°	10516.2	7969.3	2927.8	1395.7	1143.1	1062.8	1034.8	1014.7	994.7	974.6	974.6
52.5°	10925.3	8210.0	2959.9	1371.7	1115.0	1014.7	978.6	970.6	950.5	930.5	922.5
55°	11294.3	8354.4	2967.9	1375.7	1086.9	958.6	934.5	930.5	918.5	886.4	878.4
57.5°	11418.6	8294.2	2807.5	1339.6	1070.9	922.5	890.4	898.4	882.4	854.3	850.3
60°	11406.6	7877.1	2442.5	1291.5	1034.8	882.4	842.3	866.3	866.3	834.2	830.2
62.5°	10712.7	6914.5	1997.4	1199.2	994.7	842.3	798.1	834.2	846.3	826.2	822.2
65°	9272.8	5631.1	1668.5	1107.0	934.5	798.1	754.0	794.1	814.2	806.2	802.1
67.5°	7672.6	4307.5	1387.7	986.6	858.3	738.0	701.9	730.0	742.0	746.0	750.0
70°	5422.5	2867.7	1159.1	854.3	754.0	673.8	633.7	637.7	633.7	645.7	645.7
72.5°	2947.9	1652.4	942.5	725.9	649.7	585.6	557.5	537.4	537.4	533.4	533.4
73°	2522.8	1484.0	898.4	705.9	621.7	569.5	537.4	521.4	521.4	517.4	513.4
75°	1415.8	1086.9	770.1	605.6	537.4	497.3	473.3	449.2	445.2	445.2	445.2
77.5°	930.5	846.3	613.6	485.3	433.2	397.1	389.0	365.0	365.0	365.0	361.0
80°	697.9	665.8	473.3	369.0	332.9	304.8	296.8	280.8	276.7	260.7	264.7
82.5°	465.2	525.4	344.9	260.7	224.6	208.6	208.6	204.5	192.5	172.5	172.5
85°	369.0	429.1	248.7	160.4	132.4	112.3	116.3	112.3	108.3	88.2	84.2
87.5°	68.2	172.5	72.2	44.1	32.1	20.1	20.1	12.0	8.0	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)