

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: P480163

Luminaire Tested: **IFLD-S-SA6D-750-U-SL2**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480163
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6D-750-U-SL2
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens
Light Source: (96) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

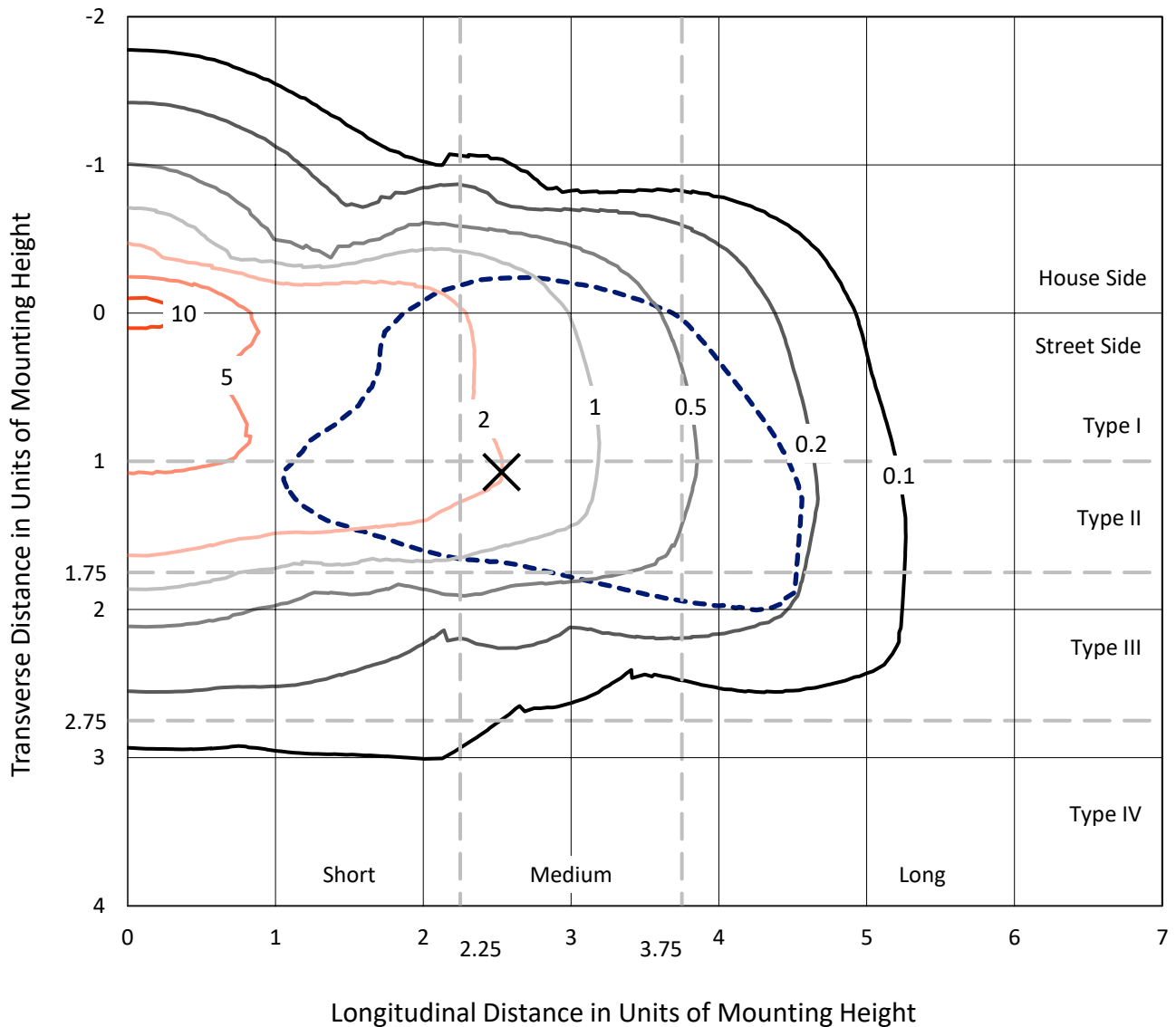
Lumens per Lamp: N/A
Luminaire Lumens: 46631.3 lumens
Efficiency: N/A
Efficacy: 126.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G5

Input Watts (W): 368.2
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

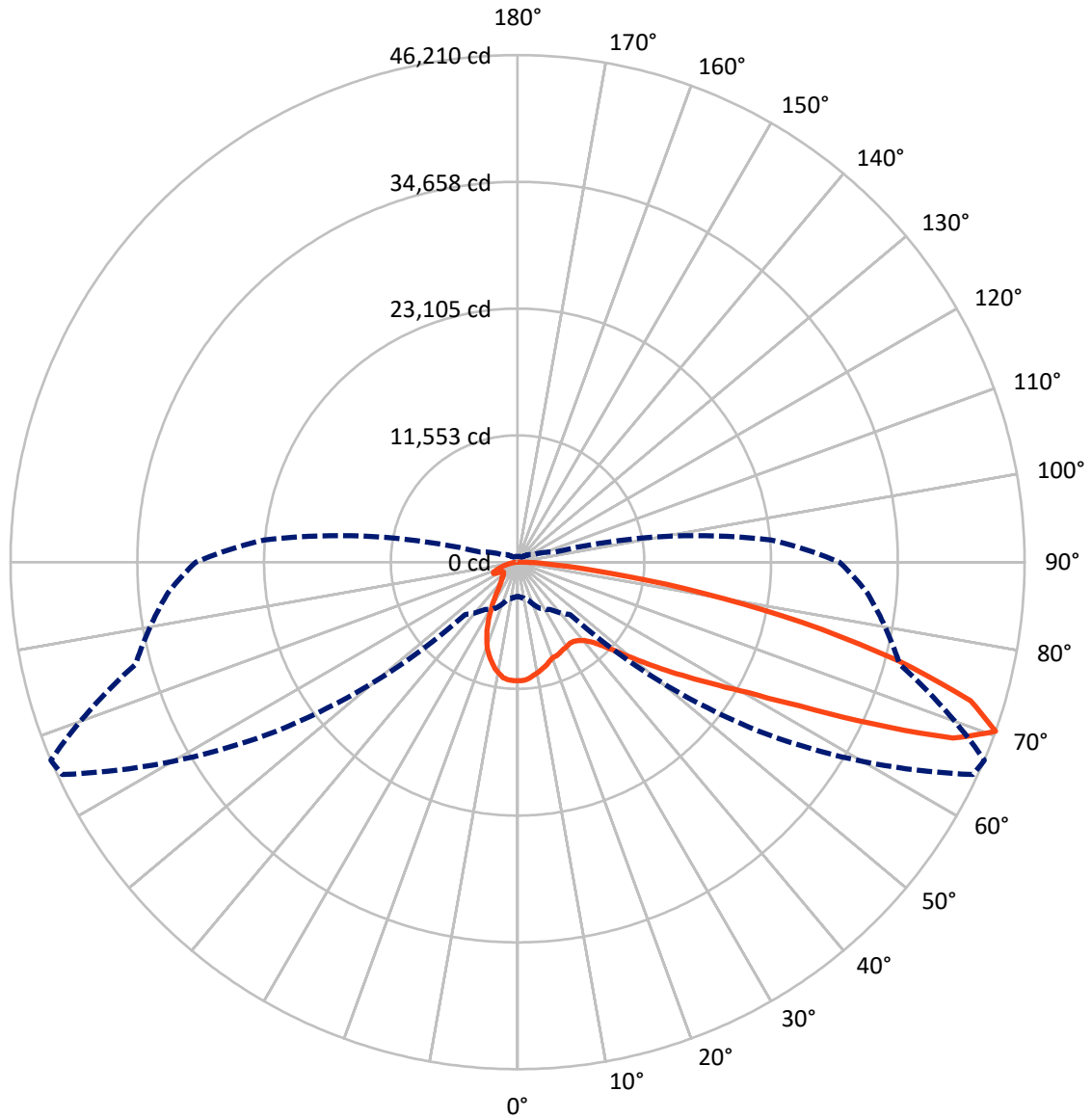
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 12.1 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9081.9	0.0	9081.9
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	37549.4	0.0	37549.4
	% Fixture	80.5	0.0	80.5
Total	Lumens	46631.3	0.0	46631.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	941.9	2.0
10°-20°	2255.8	4.8
20°-30°	3046.3	6.5
30°-40°	4076.2	8.7
40°-50°	5993.9	12.9
50°-60°	9343.0	20.0
60°-70°	11509.1	24.7
70°-80°	8132.2	17.4
80°-90°	1332.9	2.9
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°	46631.3	100.0
0°-180°	46631.3	100.0

Coefficient of Utilization

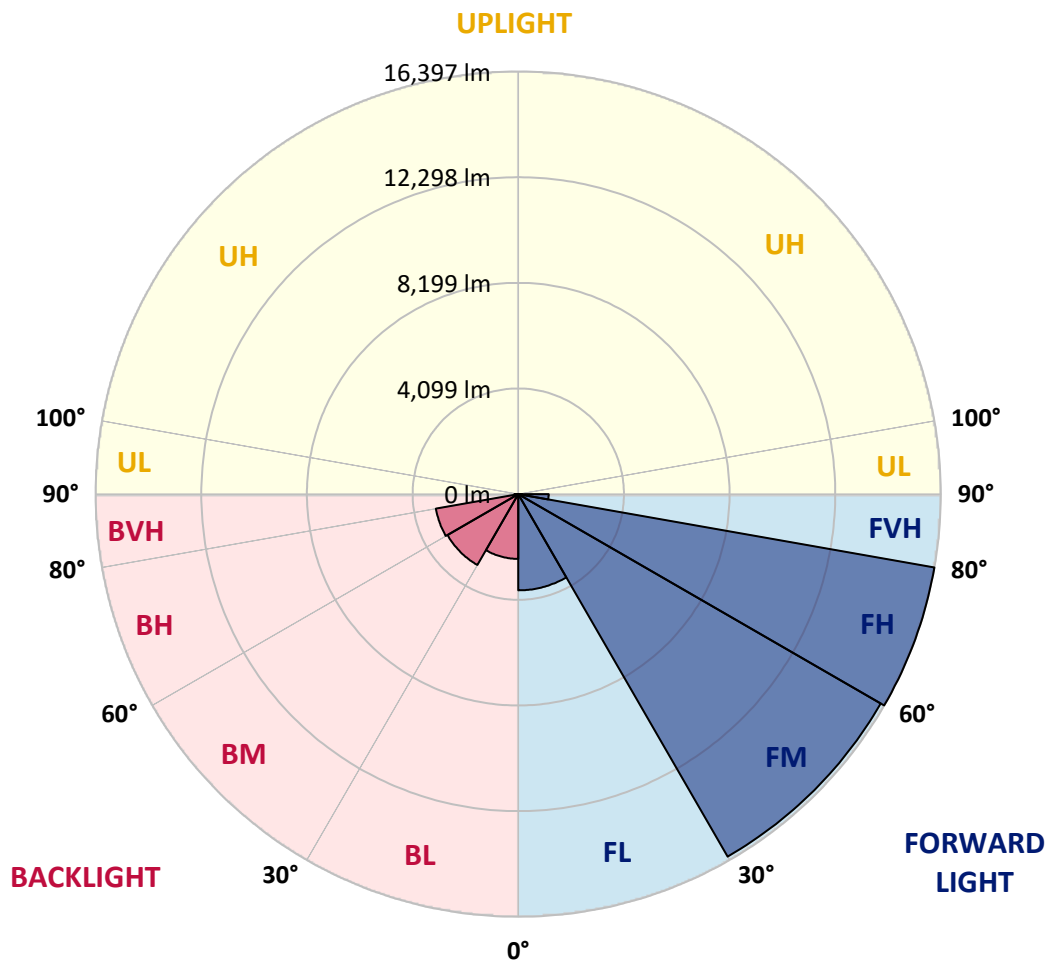


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3732.5	8.0			
FM (30°-60°)	16240.7	34.8			
FH (60°-80°)	16397.1	35.2			G5
FVH (80°-90°)	1179.1	2.5			G5
BL (0°-30°)	2511.4	5.4	B4/5000		
BM (30°-60°)	3172.5	6.8	B3/5000		
BH (60°-80°)	3244.2	7.0	B4/5000		G4/5000
BVH (80°-90°)	153.8	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	10795.0	10795.0	10795.0	10795.0	10795.0	10795.0	10795.0	10795.0	10795.0	10795.0	10795.0
2.5°	10051.6	10165.2	10206.5	10268.4	10428.4	10547.2	10619.5	10702.1	10800.2	10882.8	10934.4
5°	9349.5	9411.4	9509.5	9576.6	9778.0	10098.0	10314.9	10665.9	10655.6	10784.7	10980.8
7.5°	8668.0	8730.0	8776.4	8910.6	9199.7	9488.9	9886.4	10454.3	10413.0	10712.4	11017.0
10°	8244.7	8198.2	8213.7	8440.8	8668.0	8993.2	9494.0	10072.2	10221.9	10686.6	11120.2
12.5°	7847.1	7795.5	7919.4	8064.0	8342.8	8637.0	9235.9	9757.3	9984.5	10593.6	11166.7
15°	7599.3	7563.2	7718.1	7780.0	8110.4	8461.5	8884.8	9519.8	9767.6	10480.1	11094.4
17.5°	7460.0	7490.9	7547.7	7681.9	7893.6	8193.0	8657.7	9359.8	9468.2	10340.7	11078.9
20°	7485.8	7521.9	7527.1	7583.9	7728.4	7960.7	8435.7	9189.4	9261.7	10314.9	11120.2
22.5°	7692.3	7640.6	7661.3	7625.2	7666.5	7847.1	8265.3	8962.3	9241.0	10098.0	11032.5
25°	8002.0	7929.7	7919.4	7795.5	7718.1	7769.7	8234.3	8905.5	9086.2	10030.9	11027.3
27.5°	8549.3	8440.8	8440.8	8255.0	7940.1	7857.5	8146.6	8812.6	8972.6	9969.0	10908.6
30°	9075.8	9075.8	9081.0	8817.7	8466.7	8058.8	8182.7	8776.4	8879.7	9783.1	10748.5
32.5°	9716.0	9700.5	9674.7	9545.6	9003.6	8394.4	8358.2	8730.0	8781.6	9721.2	10702.1
35°	10340.7	10299.4	10500.7	10387.1	9834.7	9050.0	8538.9	8750.6	8864.2	9628.2	10557.5
37.5°	10810.5	10836.3	11254.5	11326.7	10851.8	9793.4	9050.0	8957.1	9065.5	9762.5	10557.5
40°	11419.7	11522.9	11915.3	12157.9	11868.8	10774.3	9860.6	9303.0	9380.4	10061.9	10784.7
42.5°	12219.9	12307.6	12808.4	13123.3	13040.7	12023.7	10660.8	10025.8	9963.8	10562.7	11125.4
45°	13278.2	13293.7	13799.6	14233.3	14403.6	13329.8	11930.8	10939.5	10887.9	11424.8	11750.1
47.5°	14537.9	14522.4	14837.3	15301.9	15761.4	14888.9	13391.8	12328.3	12142.4	12658.7	12787.8
50°	15756.2	15689.1	15761.4	16355.1	17237.9	16840.4	15167.7	14026.8	13840.9	14124.9	14346.9
52.5°	16427.4	16510.0	16313.8	17098.5	18807.3	19148.1	17521.9	16055.7	15895.6	16035.0	16422.2
55°	15957.6	16128.0	15998.9	16742.3	19494.0	21961.7	20567.8	18404.7	18198.2	18146.5	18781.5
57.5°	13959.7	14269.4	14295.2	15472.3	19256.5	24140.3	24852.7	21177.0	20867.2	20340.6	20996.3
60°	10717.6	11027.3	11264.8	12658.7	17222.4	25441.3	29819.2	25121.2	24099.0	22736.1	23128.4
62.5°	7511.6	7723.2	7960.7	8817.7	13278.2	24677.2	34114.4	30676.2	28791.8	25260.6	25751.0
65°	5472.4	5637.6	5880.2	6386.1	8156.9	20418.1	36107.2	37274.0	35487.7	28471.7	28409.8
67.5°	4119.8	4223.0	4543.1	5353.6	5653.0	12612.2	34042.2	44243.5	42797.9	32039.1	30547.1
70°	3118.2	3206.0	3505.4	4615.4	5281.3	6763.0	26855.8	45797.4	46210.4	36040.1	31982.3
72.5°	2147.6	2245.7	2581.3	3846.1	5028.4	5363.9	16855.9	41605.4	43169.6	37687.0	30443.8
75°	1316.5	1383.6	1579.8	2916.9	4992.2	5245.2	9277.2	34093.8	35751.0	34821.7	26633.8
77.5°	929.3	924.1	960.2	1708.8	4326.3	5276.2	5720.2	24981.8	26592.5	25663.3	18074.3
80°	676.3	681.5	717.6	1022.2	2937.5	5363.9	4506.9	16732.0	17212.1	13381.5	7129.5
82.5°	407.8	428.5	516.3	691.8	1765.6	4842.5	4166.2	9297.8	8699.0	4295.3	1961.8
85°	216.8	216.8	304.6	438.8	939.6	3613.8	4011.3	4424.3	3706.7	1332.0	727.9
87.5°	51.6	51.6	87.8	175.5	376.9	1729.5	2736.2	1760.4	1409.4	449.1	299.4
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°	10795.0	10795.0	10795.0	10795.0	10795.0	10795.0	10795.0	10795.0	10795.0	10795.0	10795.0
2.5°	10913.7	10851.8	10929.2	10774.3	10650.4	10655.6	10464.6	10454.3	10428.4	10294.2	10340.7
5°	11037.6	10986.0	10898.2	10727.9	10454.3	10180.6	10015.4	9803.8	9716.0	9669.5	9690.2
7.5°	11156.4	11063.4	10810.5	10573.0	10149.7	9633.4	9334.0	9050.0	8688.7	8647.4	8575.1
10°	11187.3	10991.2	10665.9	10160.0	9597.3	9024.2	8342.8	7816.2	7537.4	7320.6	7238.0
12.5°	11140.9	11058.3	10433.6	9783.1	8931.3	8033.0	7238.0	6494.5	5978.3	5709.8	5637.6
15°	11135.7	10991.2	10175.5	9210.1	8120.8	6948.9	5818.2	4925.1	4383.0	4161.1	4161.1
17.5°	11140.9	10795.0	9870.9	8631.9	7165.7	5580.8	4336.6	3603.5	3304.1	3273.1	3298.9
20°	11037.6	10650.4	9550.8	7950.4	5968.0	4192.0	3149.2	2849.8	2849.8	2891.1	2906.5
22.5°	10944.7	10433.6	9044.9	7108.9	4749.6	3035.6	2560.6	2472.9	2571.0	2643.2	2674.2
25°	10815.6	10252.9	8528.6	6236.4	3613.8	2447.1	2225.1	2245.7	2338.7	2467.7	2457.4
27.5°	10629.8	9938.0	7914.3	5224.5	2689.7	2111.5	2054.7	2065.0	2163.1	2219.9	2209.6
30°	10418.1	9617.9	7346.4	4217.8	2132.2	1936.0	1930.8	1956.6	1972.1	2003.1	1997.9
32.5°	10149.7	9194.6	6742.4	3278.2	1920.5	1837.9	1817.2	1801.7	1817.2	1812.1	1796.6
35°	9958.6	8967.4	6128.0	2498.7	1801.7	1750.1	1734.6	1708.8	1688.2	1657.2	1652.0
37.5°	9907.0	8740.3	5482.7	2039.2	1708.8	1683.0	1631.4	1584.9	1559.1	1543.6	1533.3
40°	9876.0	8590.6	4852.8	1791.4	1631.4	1605.6	1543.6	1481.7	1455.9	1440.4	1445.5
42.5°	9984.5	8508.0	4212.7	1667.5	1564.3	1517.8	1450.7	1378.4	1373.3	1362.9	1378.4
45°	10366.5	8611.2	3619.0	1579.8	1497.2	1419.7	1332.0	1295.8	1290.6	1280.3	1290.6
47.5°	11233.8	8869.3	3113.0	1523.0	1424.9	1357.8	1264.8	1213.2	1208.0	1202.9	1202.9
50°	12431.5	9664.4	2689.7	1455.9	1378.4	1285.5	1197.7	1140.9	1130.6	1110.0	1110.0
52.5°	14310.7	11001.5	2436.7	1419.7	1295.8	1218.4	1125.4	1063.5	1037.7	1017.0	1017.0
55°	16427.4	12658.7	2390.3	1357.8	1208.0	1135.8	1053.2	991.2	965.4	939.6	929.3
57.5°	18838.3	14852.8	2720.7	1316.5	1146.1	1053.2	960.2	903.5	882.8	857.0	846.7
60°	21084.0	17041.7	3748.0	1254.5	1089.3	975.7	882.8	826.0	800.2	774.4	774.4
62.5°	23680.8	19752.1	5487.8	1254.5	1037.7	893.1	800.2	758.9	743.4	717.6	712.4
65°	26752.6	22555.4	6757.8	1332.0	1022.2	820.9	722.8	681.5	666.0	650.5	645.3
67.5°	29091.2	24166.1	5813.1	1538.5	1089.3	758.9	645.3	619.5	609.2	593.7	583.4
70°	29339.0	23185.2	3505.4	1662.4	1156.4	697.0	578.2	552.4	552.4	536.9	526.6
72.5°	27114.0	20572.9	2359.3	1481.7	1048.0	624.7	511.1	490.4	480.1	469.8	464.6
75°	22689.6	17449.6	1863.7	1182.2	805.4	516.3	444.0	423.3	407.8	402.7	392.4
77.5°	15240.0	11342.2	1378.4	924.1	593.7	418.2	371.7	351.1	335.6	330.4	314.9
80°	5854.4	4321.1	888.0	671.1	418.2	330.4	294.3	273.6	263.3	247.8	237.5
82.5°	1724.3	1399.1	495.6	413.0	268.5	227.2	211.7	196.2	180.7	165.2	160.0
85°	712.4	640.2	304.6	216.8	165.2	134.2	123.9	108.4	92.9	82.6	72.3
87.5°	330.4	273.6	139.4	82.6	56.8	31.0	15.5	5.2	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)