

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: P480524

Luminaire Tested: **IFLD-L-SA7D-740-U-SL3**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480524
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7D-740-U-SL3
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens
Light Source: (112) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

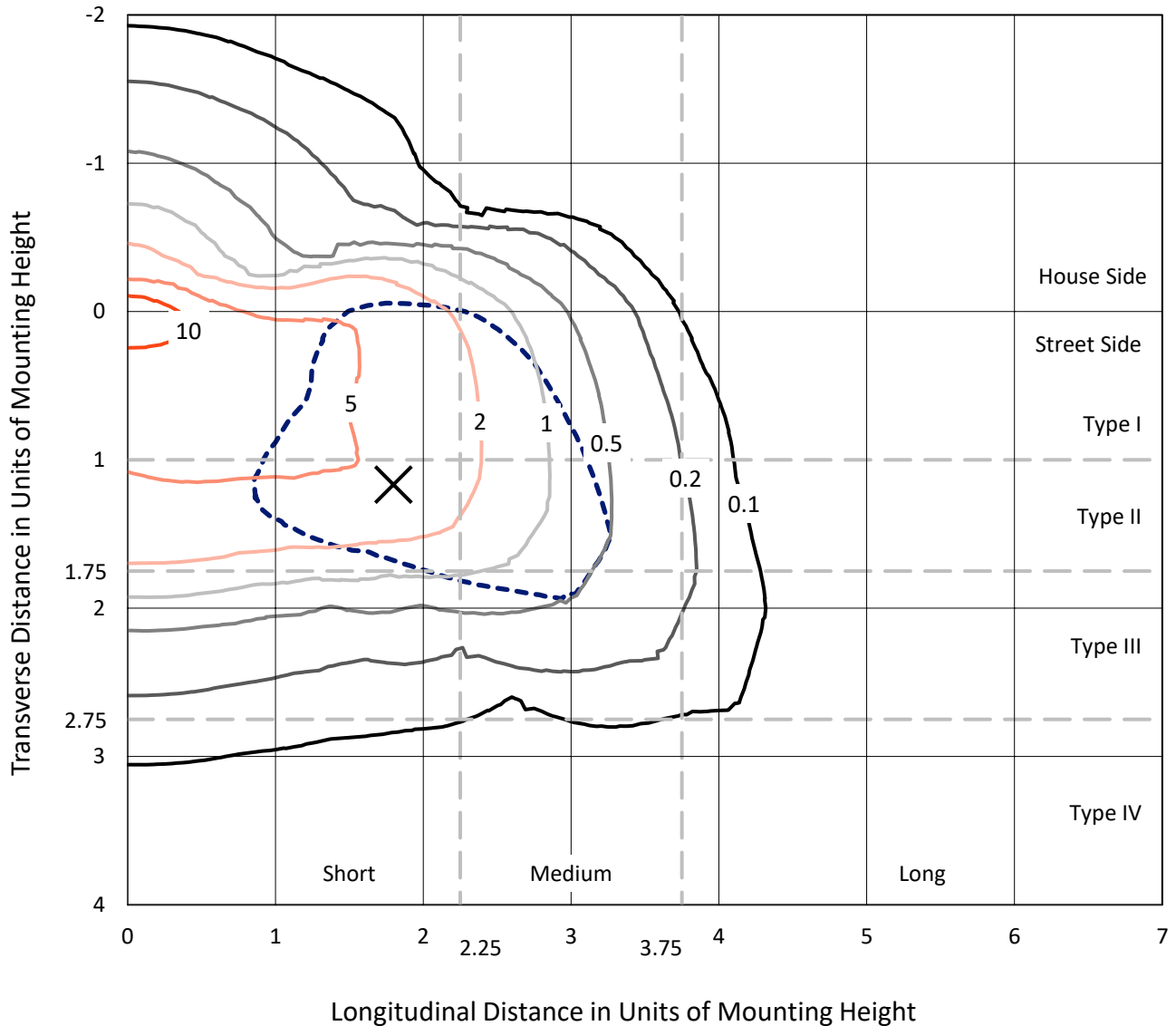
Lumens per Lamp: N/A
Luminaire Lumens: 48131.6 lumens
Efficiency: N/A
Efficacy: 113.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

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

REPORT NUMBER: P480524
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Iso-Footcandle Lines of Horizontal Illumination

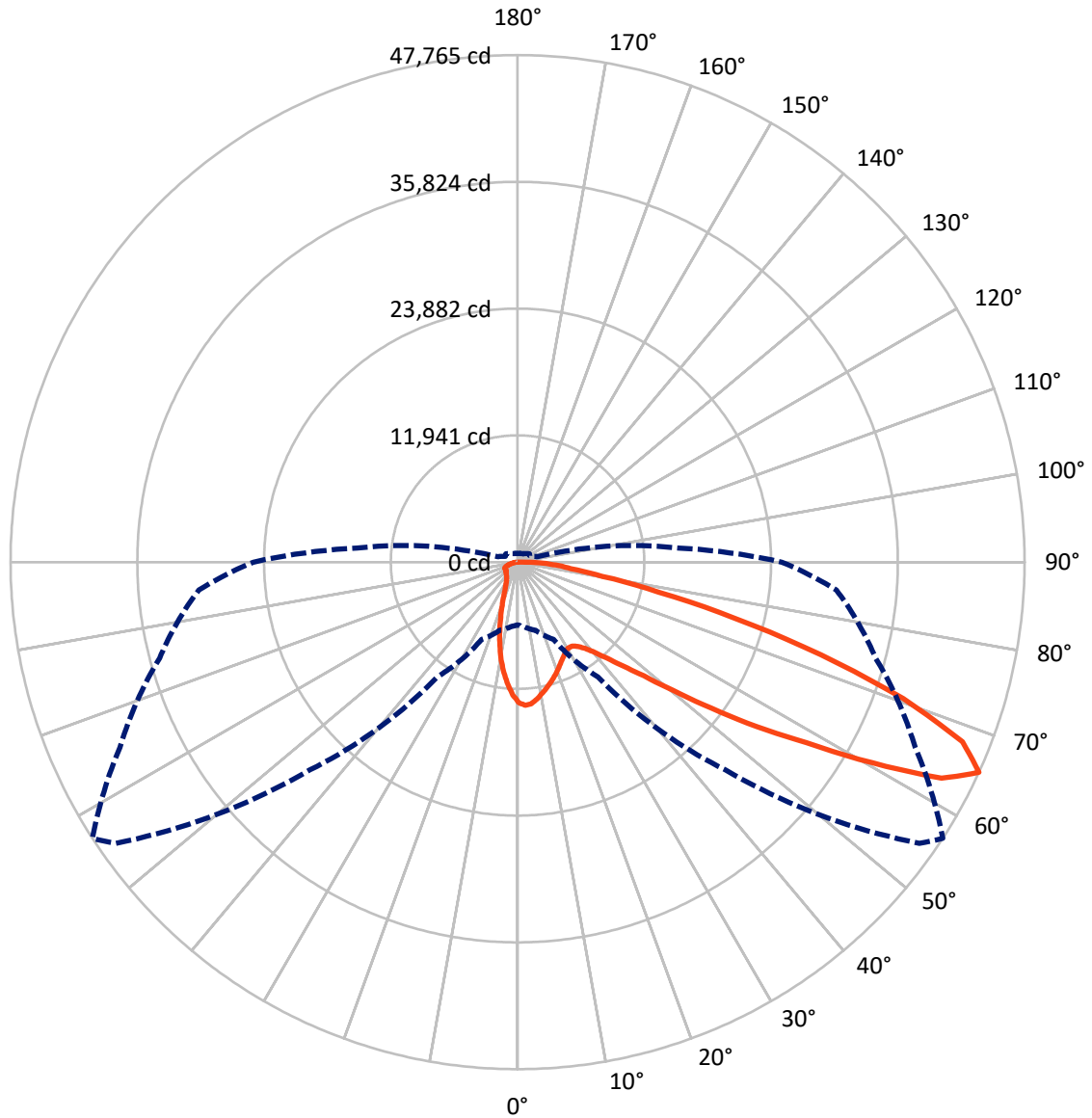
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 14.7 fc
 Type III - Short - N/A

REPORT NUMBER: P480524
CATALOG NUMBER: IFLD-L-SA7D-740-U-SL3

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	7381.4	0.0	7381.4
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	40750.1	0.0	40750.1
	% Fixture	84.7	0.0	84.7
Total	Lumens	48131.6	0.0	48131.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1108.4	2.3
10°-20°	2385.4	5.0
20°-30°	3084.1	6.4
30°-40°	4150.2	8.6
40°-50°	6617.7	13.7
50°-60°	11688.4	24.3
60°-70°	12858.8	26.7
70°-80°	5379.0	11.2
80°-90°	859.7	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°	48131.6	100.0
0°-180°	48131.6	100.0

Coefficient of Utilization

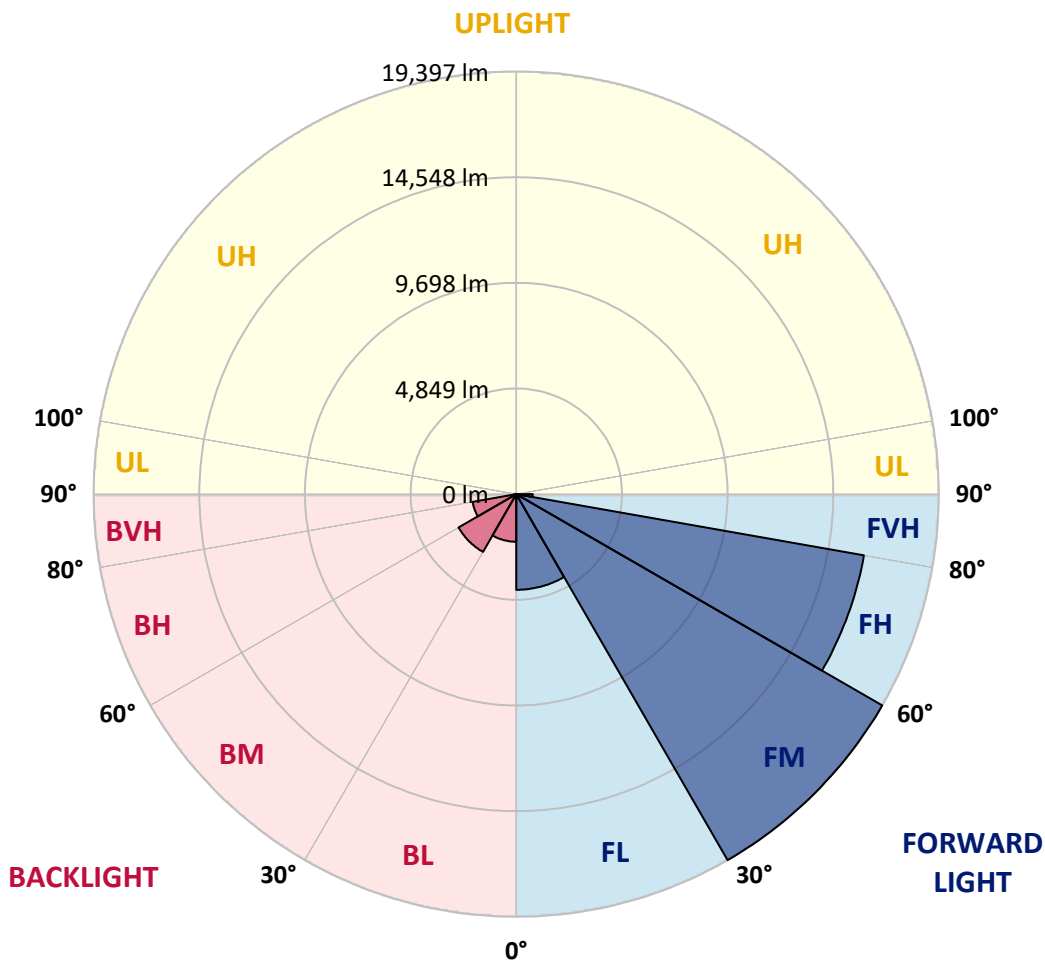


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4391.8	9.1			
FM (30°-60°)	19397.0	40.3			
FH (60°-80°)	16202.5	33.7			G5
FVH (80°-90°)	758.8	1.6			G5
BL (0°-30°)	2186.0	4.5	B3/2500		
BM (30°-60°)	3059.3	6.4	B3/5000		
BH (60°-80°)	2035.3	4.2	B3/2500		G3/2500
BVH (80°-90°)	100.9	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 III Short





REPORT NUMBER: P480524

CATALOG NUMBER: IFLD-L-SA7D-740-U-SL3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	13235.5	13235.5	13235.5	13235.5	13235.5	13235.5	13235.5	13235.5	13235.5	13235.5	13235.5
2.5°	13592.9	13614.6	13614.6	13657.9	13511.7	13582.1	13571.3	13506.3	13527.9	13414.2	13300.5
5°	13208.4	13192.2	13278.8	13289.7	13403.4	13435.9	13463.0	13419.6	13430.5	13181.3	13073.0
7.5°	12222.8	12217.4	12363.6	12488.2	12726.4	12948.5	13094.7	13051.4	13110.9	12953.9	12699.4
10°	11053.1	11177.6	11329.2	11453.8	11892.5	12174.1	12553.1	12591.1	12818.5	12780.6	12320.3
12.5°	10175.7	10229.9	10343.6	10701.0	11101.8	11567.5	12109.1	12157.8	12379.9	12488.2	12087.4
15°	9455.5	9504.2	9650.4	9915.8	10365.3	10917.7	11605.4	11730.0	12174.1	12212.0	11784.1
17.5°	8930.2	8968.1	9065.6	9330.9	9699.2	10408.6	11058.5	11280.5	11865.4	12049.5	11470.0
20°	8724.4	8643.1	8697.3	8865.2	9233.4	9780.4	10619.8	10814.8	11562.1	11924.9	11172.2
22.5°	8632.3	8561.9	8594.4	8583.6	8876.0	9265.9	10148.7	10354.5	11275.1	11778.7	10906.8
25°	8702.7	8702.7	8670.2	8643.1	8675.6	8930.2	9639.6	9959.1	10890.6	11654.2	10636.1
27.5°	9081.8	8935.6	8951.8	8838.1	8805.6	8805.6	9412.2	9601.7	10766.0	11583.8	10414.0
30°	9325.5	9395.9	9401.3	9233.4	9065.6	8762.3	9200.9	9385.1	10663.1	11670.4	10284.0
32.5°	9948.3	9915.8	9823.7	9791.2	9542.1	9200.9	9303.8	9428.4	10603.6	11865.4	10322.0
35°	10571.1	10554.8	10560.2	10544.0	10284.0	9780.4	9580.0	9747.9	10711.9	12206.6	10451.9
37.5°	11215.5	11258.8	11443.0	11443.0	11166.8	10619.8	10354.5	10305.7	11107.2	12764.4	10760.6
40°	11860.0	11968.3	12201.1	12569.4	12179.5	11670.4	11242.6	11166.8	11583.8	13511.7	11502.5
42.5°	12477.3	12656.0	13116.4	13663.3	13533.4	13024.3	12455.7	12369.0	12564.0	14621.9	12536.9
45°	13268.0	13419.6	14145.3	14984.7	15163.4	14713.9	14047.8	13977.4	13966.6	16246.5	13961.2
47.5°	14470.2	14632.7	15358.4	16203.2	16755.6	16826.0	16078.6	16002.8	15742.9	18439.8	16046.1
50°	15975.7	16241.1	16853.1	17838.7	18640.2	19392.9	19181.7	18959.7	18450.6	20990.5	18688.9
52.5°	17075.1	17400.0	18228.6	19490.4	20903.9	22100.7	22858.9	22858.9	21689.1	23790.3	21867.8
55°	17367.5	17562.5	18607.7	20432.7	22853.4	25880.7	27467.5	27348.3	25544.9	26736.4	25566.6
57.5°	16203.2	16457.7	17725.0	19636.6	23877.0	29417.0	32043.6	32070.6	29758.2	30159.0	29216.7
60°	12997.2	13078.5	14573.1	17129.3	22891.4	32265.6	38293.1	38395.9	34550.9	33207.9	31074.2
62.5°	8984.3	9244.3	10370.7	12612.7	18965.1	31946.1	44320.5	44829.6	38390.5	34816.3	31366.6
65°	5913.7	6070.8	6671.9	8036.6	13203.0	27689.5	46194.3	47764.8	41325.7	34908.4	30142.7
67.5°	4289.1	4316.2	4494.9	5198.9	7933.7	19912.8	42993.7	45208.7	42425.1	34139.4	27272.5
70°	3465.9	3487.6	3552.6	4002.1	5123.1	12461.1	35065.4	38536.8	39127.0	30494.7	21965.3
72.5°	2816.1	2843.1	2924.4	3346.8	4224.1	6931.8	25642.4	29871.9	31826.9	22561.0	14600.2
75°	2214.9	2236.6	2431.6	2848.6	3969.6	4760.2	17010.1	21153.0	21418.3	13186.8	6834.4
77.5°	1516.3	1554.3	1792.5	2415.3	3736.7	4164.5	10603.6	13549.6	12157.8	5161.0	2350.3
80°	964.0	1018.1	1158.9	1830.4	3303.5	3975.0	6596.1	8090.8	5323.4	1765.5	1131.8
82.5°	568.6	622.8	763.6	1186.0	2594.0	3688.0	4646.5	5063.5	2496.5	904.4	682.4
85°	314.1	352.0	460.3	714.8	1521.8	3276.4	3720.5	3633.8	1429.7	482.0	427.8
87.5°	102.9	119.1	167.9	287.0	628.2	1543.4	2231.2	2095.8	741.9	222.0	167.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P480524
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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	13235.5	13235.5	13235.5	13235.5	13235.5	13235.5	13235.5	13235.5	13235.5	13235.5	13235.5
2.5°	13224.7	13208.4	12964.7	12780.6	12466.5	12206.6	12103.7	11962.9	11957.4	11854.5	11827.5
5°	12905.2	12737.3	12363.6	12006.2	11448.4	11074.7	10733.5	10495.3	10397.8	10186.6	10137.8
7.5°	12493.6	12271.5	11697.5	11026.0	10370.7	9785.8	9255.1	8724.4	8426.5	8323.6	8209.9
10°	12065.8	11675.8	10825.6	10072.8	9157.6	8258.6	7424.7	6677.3	6271.2	5984.1	5859.6
12.5°	11724.6	11204.7	10121.6	8995.2	7787.5	6585.3	5615.9	4830.6	4370.3	4153.7	4056.2
15°	11340.1	10652.3	9352.6	7928.3	6422.8	5058.1	4110.4	3493.0	3308.9	3206.0	3189.7
17.5°	10933.9	10137.8	8518.6	6877.7	5090.6	3807.1	3195.1	2946.0	2864.8	2821.5	2799.8
20°	10554.8	9677.5	7662.9	5707.9	3985.8	3054.3	2767.3	2637.4	2631.9	2653.6	2648.2
22.5°	10018.7	9076.4	6818.1	4624.8	3184.3	2659.0	2474.9	2442.4	2474.9	2502.0	2512.8
25°	9715.4	8583.6	5875.8	3671.7	2631.9	2361.2	2301.6	2290.8	2339.5	2372.0	2366.6
27.5°	9401.3	8074.5	4998.5	2940.6	2307.0	2150.0	2139.1	2150.0	2198.7	2247.4	2242.0
30°	9157.6	7668.4	4175.4	2458.6	2057.9	1998.3	1987.5	1998.3	2025.4	2030.8	2030.8
32.5°	8957.2	7186.4	3476.8	2133.7	1906.3	1857.5	1868.4	1862.9	1868.4	1873.8	1879.2
35°	8838.1	6899.4	2902.7	1933.3	1781.7	1743.8	1738.4	1722.1	1727.5	1733.0	1727.5
37.5°	9092.6	6758.6	2447.8	1792.5	1695.1	1662.6	1651.7	1640.9	1624.7	1624.7	1624.7
40°	9477.1	6682.7	2171.6	1700.5	1630.1	1592.2	1559.7	1548.8	1548.8	1554.3	1559.7
42.5°	10240.7	6807.3	1982.1	1630.1	1548.8	1505.5	1473.0	1478.4	1494.7	1510.9	1500.1
45°	11345.5	7186.4	1895.4	1575.9	1500.1	1440.5	1418.9	1413.4	1429.7	1456.8	1478.4
47.5°	12791.4	7776.7	1862.9	1527.2	1467.6	1386.4	1359.3	1375.5	1397.2	1435.1	1418.9
50°	15158.0	9103.5	1890.0	1483.8	1418.9	1359.3	1326.8	1310.6	1326.8	1353.9	1364.7
52.5°	18250.3	11513.4	1992.9	1462.2	1386.4	1337.6	1283.5	1256.4	1272.6	1294.3	1294.3
55°	21949.1	14806.0	2279.9	1435.1	1332.2	1305.1	1245.6	1191.4	1202.2	1202.2	1196.8
57.5°	25209.2	17291.7	2621.1	1397.2	1299.7	1261.8	1186.0	1121.0	1110.2	1115.6	1121.0
60°	26671.4	17952.4	2783.6	1386.4	1299.7	1207.7	1104.8	1039.8	1023.5	1012.7	1012.7
62.5°	26416.8	16809.7	2453.2	1337.6	1332.2	1164.3	1028.9	958.5	936.9	915.2	920.6
65°	24878.8	15179.7	1933.3	1272.6	1337.6	1137.3	953.1	882.7	844.8	817.7	812.3
67.5°	22068.2	12959.3	1532.6	1223.9	1283.5	1088.5	888.1	806.9	774.4	747.3	736.5
70°	17264.6	10159.5	1332.2	1158.9	1153.5	969.4	812.3	741.9	693.2	660.7	660.7
72.5°	11193.9	6422.8	1142.7	1028.9	996.5	812.3	704.0	660.7	622.8	595.7	595.7
75°	5068.9	2983.9	920.6	861.1	812.3	649.9	595.7	574.0	541.6	514.5	514.5
77.5°	1819.6	1272.6	687.8	676.9	606.5	503.6	482.0	465.7	444.1	417.0	417.0
80°	1018.1	806.9	514.5	492.8	422.4	373.7	346.6	346.6	335.8	319.5	314.1
82.5°	644.4	525.3	379.1	330.3	276.2	249.1	238.3	232.9	227.5	205.8	200.4
85°	406.2	357.4	249.1	195.0	162.5	124.6	119.1	113.7	102.9	92.1	92.1
87.5°	184.1	205.8	97.5	59.6	43.3	27.1	16.2	5.4	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)