

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: P480522

Luminaire Tested: **IFLD-L-SA7B-740-U-SL3**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480522
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7B-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

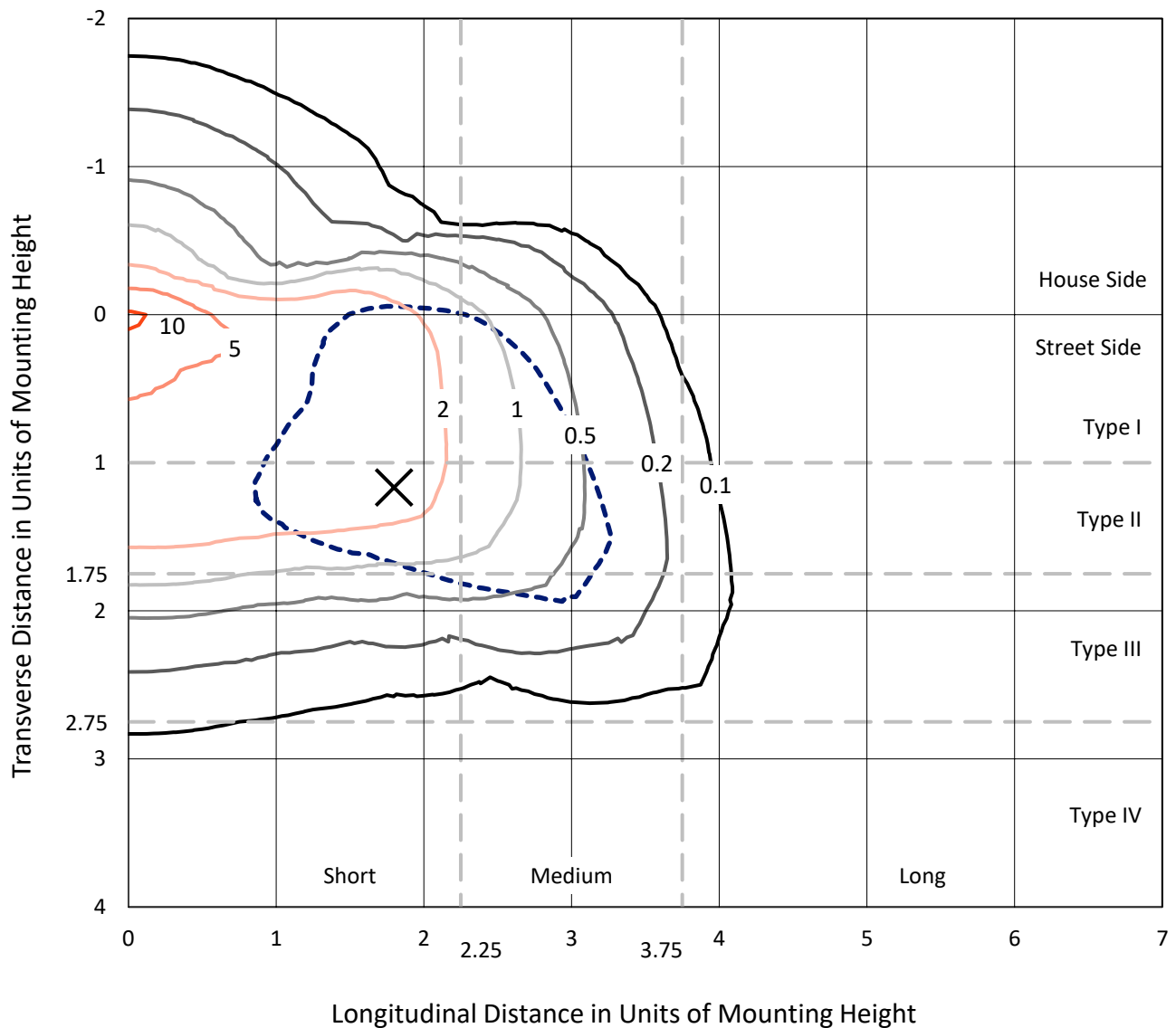
Lumens per Lamp: N/A
Luminaire Lumens: 35139.4 lumens
Efficiency: N/A
Efficacy: 125.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 281
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: P480522
 CATALOG NUMBER: IFLD-L-SA7B-740-U-SL3

Iso-Footcandle Lines of Horizontal Illumination

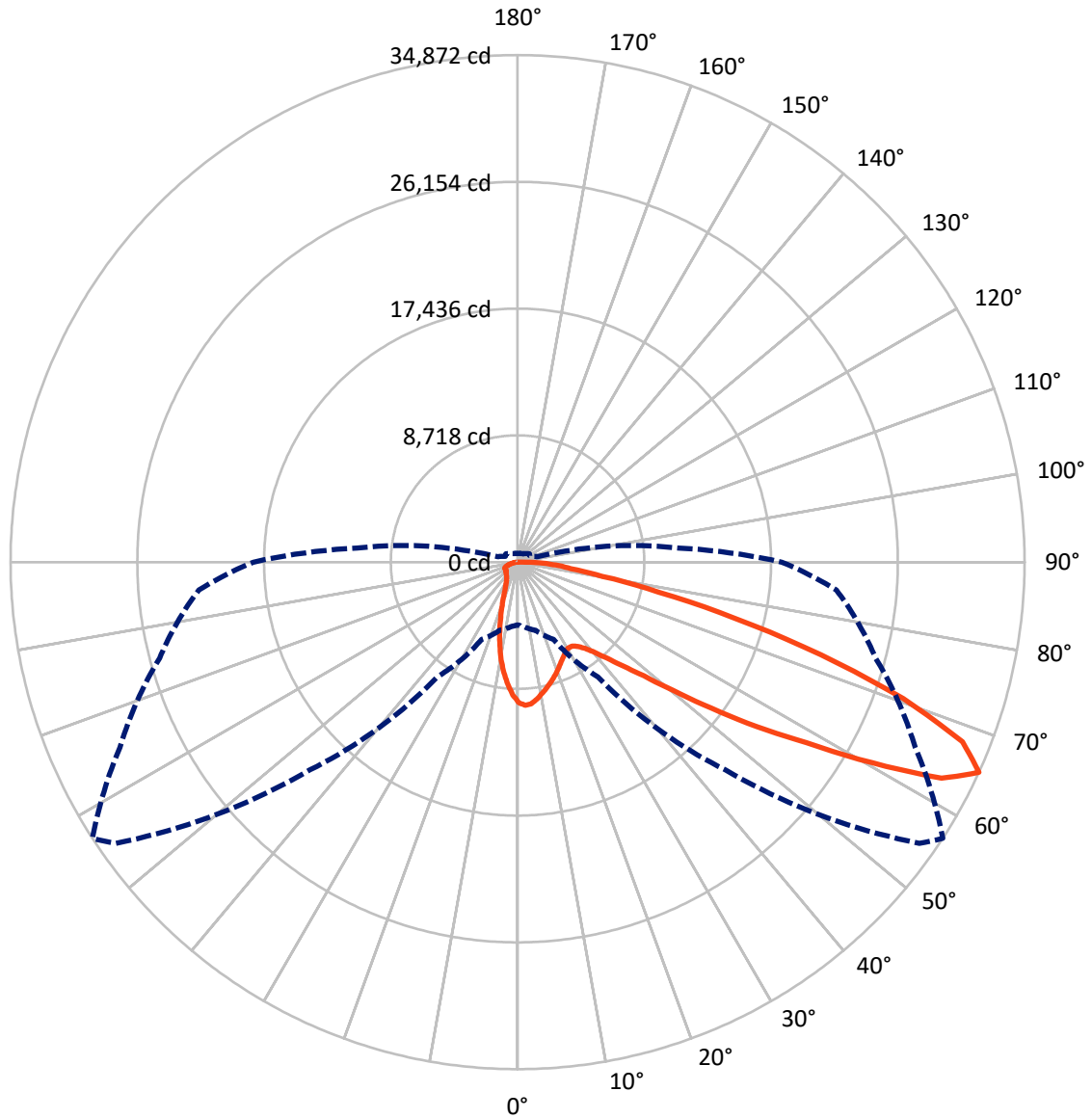
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 10.7 fc
 Type III - Short - N/A

REPORT NUMBER: P480522
CATALOG NUMBER: IFLD-L-SA7B-740-U-SL3

Luminous Intensity Polar Plot



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

REPORT NUMBER: P480522
 CATALOG NUMBER: IFLD-L-SA7B-740-U-SL3

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5389.0	0.0	5389.0
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	29750.4	0.0	29750.4
	% Fixture	84.7	0.0	84.7
Total	Lumens	35139.4	0.0	35139.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	809.2	2.3
10°-20°	1741.5	5.0
20°-30°	2251.6	6.4
30°-40°	3029.9	8.6
40°-50°	4831.3	13.7
50°-60°	8533.3	24.3
60°-70°	9387.8	26.7
70°-80°	3927.1	11.2
80°-90°	627.6	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°	35139.4	100.0
0°-180°	35139.4	100.0

Coefficient of Utilization



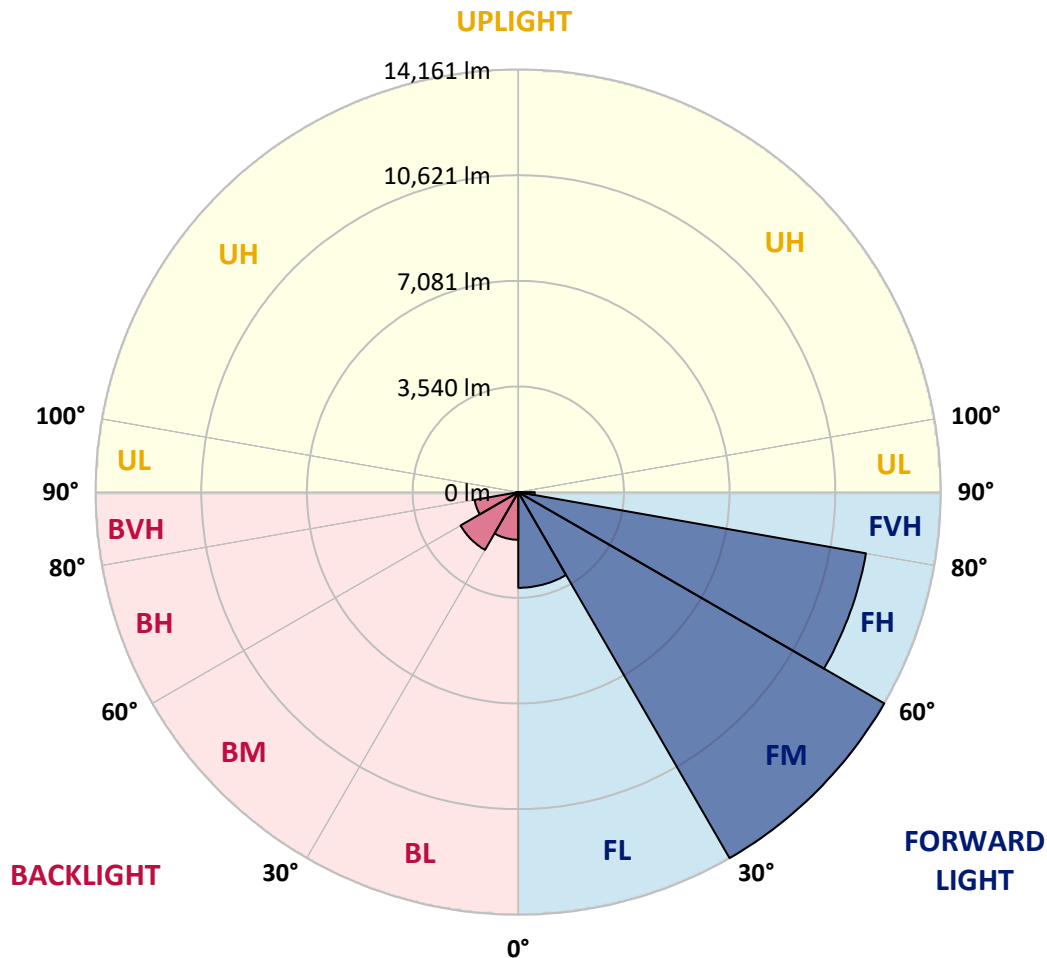
REPORT NUMBER: P480522
 CATALOG NUMBER: IFLD-L-SA7B-740-U-SL3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3206.3	9.1			
FM (30°-60°)	14161.1	40.3			
FH (60°-80°)	11829.0	33.7			G4/12000
FVH (80°-90°)	554.0	1.6			G4/750
BL (0°-30°)	1595.9	4.5	B3/2500		
BM (30°-60°)	2233.5	6.4	B2/2500		
BH (60°-80°)	1485.9	4.2	B3/2500		G3/2500
BVH (80°-90°)	73.6	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





REPORT NUMBER: P480522

CATALOG NUMBER: IFLD-L-SA7B-740-U-SL3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	9662.8	9662.8	9662.8	9662.8	9662.8	9662.8	9662.8	9662.8	9662.8	9662.8	9662.8
2.5°	9923.8	9939.6	9939.6	9971.2	9864.5	9915.9	9908.0	9860.5	9876.3	9793.3	9710.3
5°	9643.1	9631.2	9694.5	9702.4	9785.4	9809.1	9828.9	9797.3	9805.2	9623.3	9544.2
7.5°	8923.5	8919.5	9026.3	9117.2	9291.2	9453.3	9560.0	9528.4	9571.9	9457.2	9271.4
10°	8069.5	8160.4	8271.1	8362.1	8682.3	8887.9	9164.7	9192.3	9358.4	9330.7	8994.7
12.5°	7429.0	7468.5	7551.6	7812.5	8105.1	8445.1	8840.5	8876.0	9038.1	9117.2	8824.6
15°	6903.1	6938.7	7045.5	7239.2	7567.4	7970.6	8472.8	8563.7	8887.9	8915.6	8603.2
17.5°	6519.6	6547.3	6618.5	6812.2	7081.1	7599.0	8073.4	8235.5	8662.5	8797.0	8373.9
20°	6369.4	6310.1	6349.6	6472.2	6741.0	7140.4	7753.2	7895.5	8441.1	8706.0	8156.5
22.5°	6302.2	6250.8	6274.5	6266.6	6480.1	6764.8	7409.2	7559.5	8231.6	8599.3	7962.7
25°	6353.6	6353.6	6329.9	6310.1	6333.8	6519.6	7037.6	7270.8	7950.9	8508.3	7765.1
27.5°	6630.3	6523.6	6535.5	6452.4	6428.7	6428.7	6871.5	7009.9	7859.9	8456.9	7603.0
30°	6808.3	6859.7	6863.6	6741.0	6618.5	6397.1	6717.3	6851.8	7784.8	8520.2	7508.1
32.5°	7262.9	7239.2	7172.0	7148.3	6966.4	6717.3	6792.4	6883.4	7741.3	8662.5	7535.7
35°	7717.6	7705.7	7709.7	7697.8	7508.1	7140.4	6994.1	7116.6	7820.4	8911.6	7630.6
37.5°	8188.1	8219.7	8354.2	8354.2	8152.5	7753.2	7559.5	7523.9	8109.0	9318.9	7856.0
40°	8658.6	8737.7	8907.7	9176.5	8891.9	8520.2	8207.9	8152.5	8456.9	9864.5	8397.6
42.5°	9109.3	9239.8	9575.8	9975.2	9880.3	9508.6	9093.5	9030.2	9172.6	10675.0	9152.8
45°	9686.5	9797.3	10327.0	10939.9	11070.3	10742.2	10255.9	10204.5	10196.6	11861.1	10192.6
47.5°	10564.3	10682.9	11212.7	11829.5	12232.7	12284.1	11738.5	11683.2	11493.4	13462.3	11714.8
50°	11663.4	11857.1	12303.9	13023.5	13608.6	14158.2	14004.0	13841.9	13470.2	15324.5	13644.2
52.5°	12466.0	12703.2	13308.1	14229.3	15261.3	16135.0	16688.5	16688.5	15834.5	17368.6	15965.0
55°	12679.5	12821.8	13584.9	14917.3	16684.6	18894.7	20053.1	19966.2	18649.6	19519.4	18665.4
57.5°	11829.5	12015.3	12940.4	14336.1	17431.8	21476.5	23394.0	23413.8	21725.5	22018.1	21330.2
60°	9488.9	9548.2	10639.4	12505.5	16712.3	23556.1	27956.6	28031.7	25224.6	24244.0	22686.3
62.5°	6559.2	6749.0	7571.3	9208.2	13845.8	23322.8	32357.0	32728.7	28027.7	25418.3	22899.8
65°	4317.4	4432.1	4871.0	5867.3	9639.1	20215.2	33725.0	34871.6	30170.6	25485.5	22006.3
67.5°	3131.3	3151.1	3281.6	3795.5	5792.2	14537.7	31388.4	33005.4	30973.2	24924.1	19910.8
70°	2530.4	2546.2	2593.6	2921.8	3740.2	9097.4	25600.2	28134.5	28565.4	22263.2	16036.2
72.5°	2055.9	2075.7	2135.0	2443.4	3083.9	5060.7	18720.7	21808.6	23235.9	16471.1	10659.2
75°	1617.1	1632.9	1775.2	2079.6	2898.1	3475.3	12418.6	15443.1	15636.9	9627.2	4989.6
77.5°	1107.0	1134.7	1308.7	1763.3	2728.0	3040.4	7741.3	9892.1	8876.0	3767.9	1715.9
80°	703.8	743.3	846.1	1336.3	2411.8	2902.0	4815.6	5906.8	3886.5	1288.9	826.3
82.5°	415.1	454.7	557.5	865.9	1893.8	2692.5	3392.3	3696.7	1822.7	660.3	498.2
85°	229.3	257.0	336.1	521.9	1111.0	2392.0	2716.2	2652.9	1043.8	351.9	312.3
87.5°	75.1	87.0	122.6	209.5	458.6	1126.8	1628.9	1530.1	541.7	162.1	122.6
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: P480522
 CATALOG NUMBER: IFLD-L-SA7B-740-U-SL3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	9662.8	9662.8	9662.8	9662.8	9662.8	9662.8	9662.8	9662.8	9662.8	9662.8	9662.8
2.5°	9654.9	9643.1	9465.1	9330.7	9101.4	8911.6	8836.5	8733.7	8729.8	8654.6	8634.9
5°	9421.7	9299.1	9026.3	8765.3	8358.1	8085.3	7836.2	7662.3	7591.1	7436.9	7401.3
7.5°	9121.2	8959.1	8540.0	8049.7	7571.3	7144.3	6756.9	6369.4	6151.9	6076.8	5993.8
10°	8808.8	8524.2	7903.4	7353.9	6685.7	6029.4	5420.5	4874.9	4578.4	4368.8	4277.9
12.5°	8559.7	8180.2	7389.5	6567.1	5685.4	4807.7	4100.0	3526.7	3190.6	3032.5	2961.3
15°	8279.0	7776.9	6828.0	5788.2	4689.1	3692.7	3000.9	2550.1	2415.7	2340.6	2328.7
17.5°	7982.5	7401.3	6219.2	5021.2	3716.5	2779.4	2332.7	2150.8	2091.5	2059.9	2044.1
20°	7705.7	7065.2	5594.5	4167.2	2909.9	2229.9	2020.3	1925.4	1921.5	1937.3	1933.4
22.5°	7314.3	6626.4	4977.7	3376.5	2324.8	1941.3	1806.8	1783.1	1806.8	1826.6	1834.5
25°	7092.9	6266.6	4289.8	2680.6	1921.5	1723.8	1680.3	1672.4	1708.0	1731.7	1727.8
27.5°	6863.6	5895.0	3649.3	2146.9	1684.3	1569.6	1561.7	1569.6	1605.2	1640.8	1636.8
30°	6685.7	5598.4	3048.3	1795.0	1502.4	1458.9	1451.0	1458.9	1478.7	1482.6	1482.6
32.5°	6539.4	5246.6	2538.3	1557.8	1391.7	1356.1	1364.0	1360.1	1364.0	1368.0	1371.9
35°	6452.4	5037.0	2119.2	1411.5	1300.8	1273.1	1269.1	1257.3	1261.2	1265.2	1261.2
37.5°	6638.3	4934.2	1787.1	1308.7	1237.5	1213.8	1205.9	1198.0	1186.1	1186.1	1186.1
40°	6919.0	4878.9	1585.4	1241.5	1190.1	1162.4	1138.7	1130.8	1130.8	1134.7	1138.7
42.5°	7476.4	4969.8	1447.1	1190.1	1130.8	1099.1	1075.4	1079.4	1091.2	1103.1	1095.2
45°	8283.0	5246.6	1383.8	1150.5	1095.2	1051.7	1035.9	1031.9	1043.8	1063.5	1079.4
47.5°	9338.6	5677.5	1360.1	1114.9	1071.5	1012.1	992.4	1004.2	1020.1	1047.7	1035.9
50°	11066.4	6646.2	1379.8	1083.3	1035.9	992.4	968.7	956.8	968.7	988.4	996.3
52.5°	13323.9	8405.6	1455.0	1067.5	1012.1	976.6	937.0	917.3	929.1	944.9	944.9
55°	16024.3	10809.4	1664.5	1047.7	972.6	952.8	909.3	869.8	877.7	877.7	873.8
57.5°	18404.4	12624.1	1913.6	1020.1	948.9	921.2	865.9	818.4	810.5	814.5	818.4
60°	19471.9	13106.5	2032.2	1012.1	948.9	881.7	806.6	759.1	747.2	739.3	739.3
62.5°	19286.1	12272.3	1791.0	976.6	972.6	850.0	751.2	699.8	684.0	668.2	672.1
65°	18163.3	11082.2	1411.5	929.1	976.6	830.3	695.9	644.5	616.8	597.0	593.1
67.5°	16111.3	9461.2	1118.9	893.5	937.0	794.7	648.4	589.1	565.4	545.6	537.7
70°	12604.4	7417.1	972.6	846.1	842.1	707.7	593.1	541.7	506.1	482.4	482.4
72.5°	8172.3	4689.1	834.2	751.2	727.5	593.1	514.0	482.4	454.7	434.9	434.9
75°	3700.7	2178.5	672.1	628.6	593.1	474.4	434.9	419.1	395.4	375.6	375.6
77.5°	1328.4	929.1	502.1	494.2	442.8	367.7	351.9	340.0	324.2	304.4	304.4
80°	743.3	589.1	375.6	359.8	308.4	272.8	253.0	253.0	245.1	233.3	229.3
82.5°	470.5	383.5	276.8	241.2	201.6	181.9	174.0	170.0	166.1	150.2	146.3
85°	296.5	260.9	181.9	142.3	118.6	90.9	87.0	83.0	75.1	67.2	67.2
87.5°	134.4	150.2	71.2	43.5	31.6	19.8	11.9	4.0	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)