

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: P480604

Luminaire Tested: **IFLD-L-SA8A-760-U-SL3**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480604
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8A-760-U-SL3
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens
Light Source: (128) 5700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

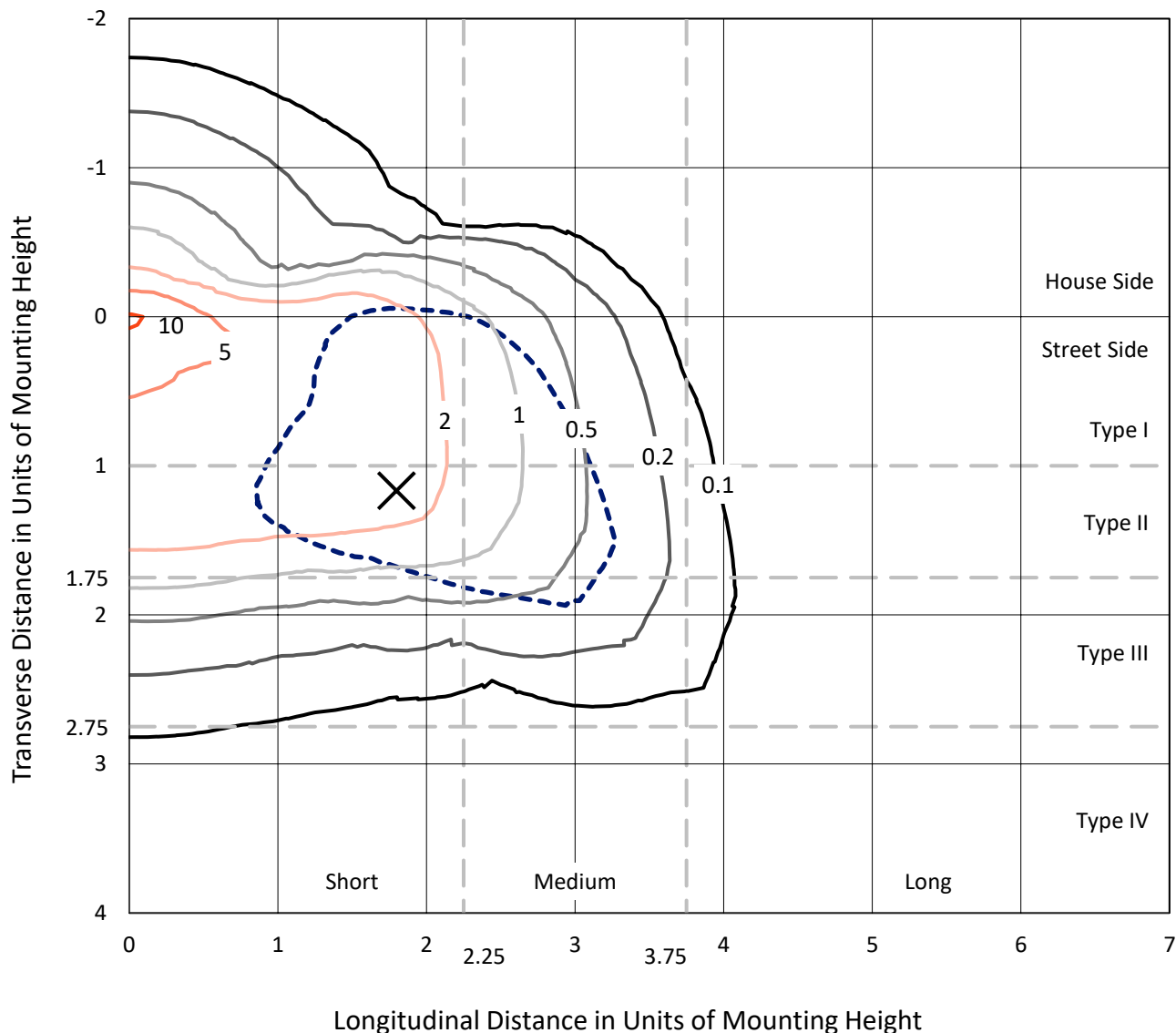
Lumens per Lamp: N/A
Luminaire Lumens: 34575.6 lumens
Efficiency: N/A
Efficacy: 139.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 247.8
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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 CATALOG NUMBER: IFLD-L-SA8A-760-U-SL3

Iso-Footcandle Lines of Horizontal Illumination

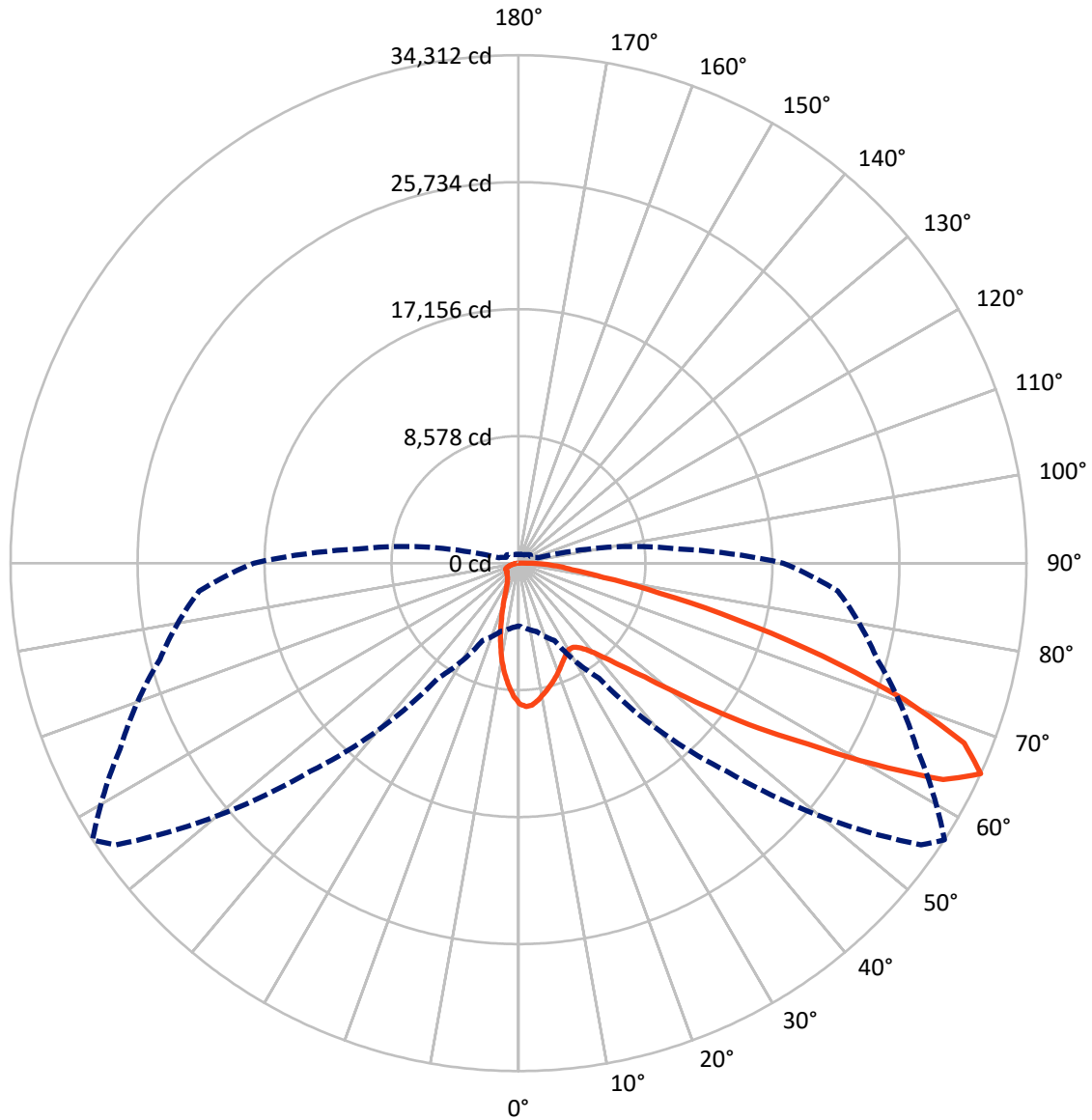
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 10.6 fc
 Type III - Short - N/A

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CATALOG NUMBER: IFLD-L-SA8A-760-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	5302.5	0.0	5302.5
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	29273.1	0.0	29273.1
	% Fixture	84.7	0.0	84.7
Total	Lumens	34575.6	0.0	34575.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	796.2	2.3
10°-20°	1713.6	5.0
20°-30°	2215.5	6.4
30°-40°	2981.3	8.6
40°-50°	4753.8	13.7
50°-60°	8396.4	24.3
60°-70°	9237.2	26.7
70°-80°	3864.1	11.2
80°-90°	617.6	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°	34575.6	100.0
0°-180°	34575.6	100.0

Coefficient of Utilization



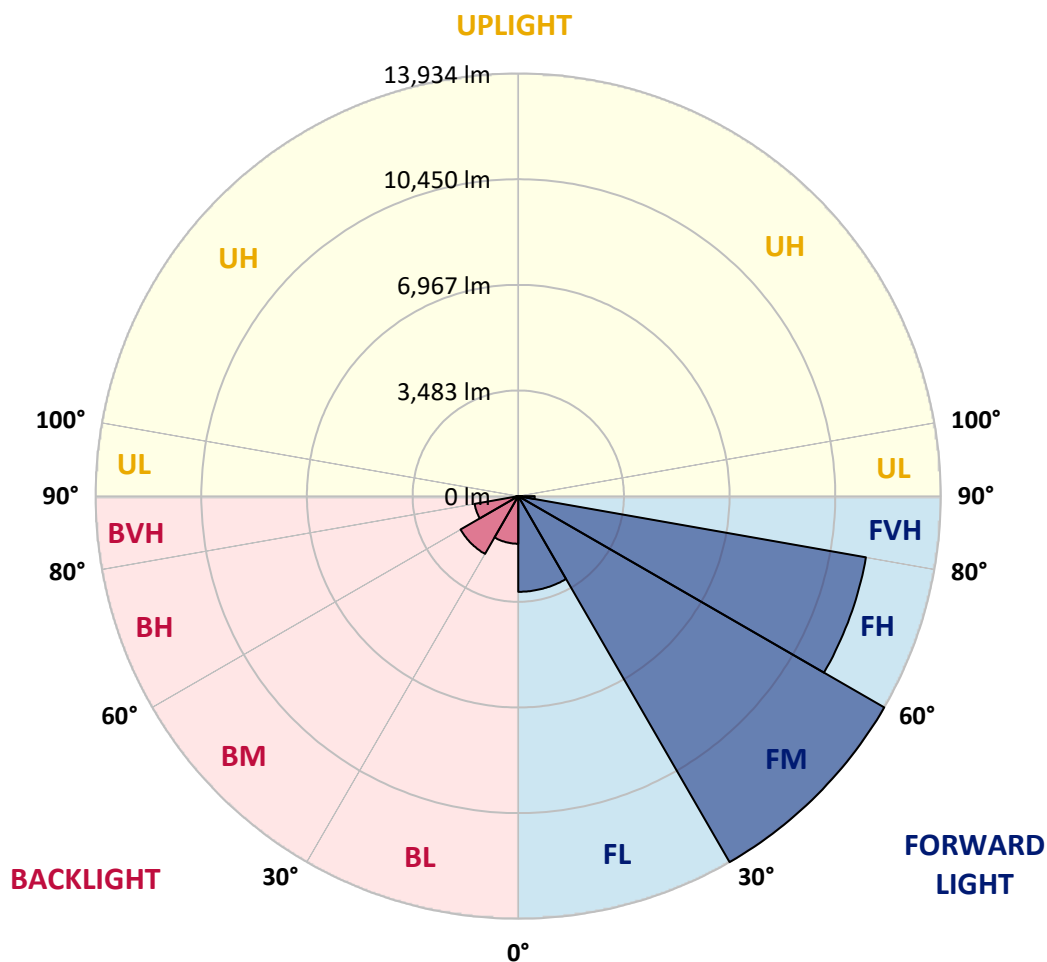
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3154.9	9.1			
FM (30°-60°)	13933.9	40.3			
FH (60°-80°)	11639.2	33.7			G4/12000
FVH (80°-90°)	545.1	1.6			G4/750
BL (0°-30°)	1570.3	4.5	B3/2500		
BM (30°-60°)	2197.6	6.4	B2/2500		
BH (60°-80°)	1462.1	4.2	B3/2500		G3/2500
BVH (80°-90°)	72.5	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: P480604

CATALOG NUMBER: IFLD-L-SA8A-760-U-SL3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	9507.8	9507.8	9507.8	9507.8	9507.8	9507.8	9507.8	9507.8	9507.8	9507.8	9507.8
2.5°	9764.5	9780.1	9780.1	9811.2	9706.2	9756.8	9749.0	9702.3	9717.9	9636.2	9554.5
5°	9488.3	9476.7	9538.9	9546.7	9628.4	9651.7	9671.2	9640.1	9647.8	9468.9	9391.1
7.5°	8780.3	8776.4	8881.5	8970.9	9142.1	9301.6	9406.6	9375.5	9418.3	9305.5	9122.7
10°	7940.0	8029.5	8138.4	8227.9	8543.0	8745.3	9017.6	9044.9	9208.2	9181.0	8850.3
12.5°	7309.8	7348.7	7430.4	7687.2	7975.0	8309.6	8698.6	8733.6	8893.1	8970.9	8683.1
15°	6792.4	6827.4	6932.4	7123.1	7446.0	7842.8	8336.8	8426.3	8745.3	8772.5	8465.2
17.5°	6415.0	6442.3	6512.3	6702.9	6967.5	7477.1	7943.9	8103.4	8523.6	8655.8	8239.6
20°	6267.2	6208.9	6247.8	6368.4	6632.9	7025.8	7628.8	7768.8	8305.7	8566.3	8025.6
22.5°	6201.1	6150.5	6173.8	6166.1	6376.1	6656.2	7290.3	7438.2	8099.5	8461.3	7835.0
25°	6251.6	6251.6	6228.3	6208.9	6232.2	6415.0	6924.7	7154.2	7823.3	8371.8	7640.5
27.5°	6524.0	6418.9	6430.6	6348.9	6325.6	6325.6	6761.3	6897.4	7733.8	8321.3	7481.0
30°	6699.0	6749.6	6753.5	6632.9	6512.3	6294.4	6609.5	6741.8	7659.9	8383.5	7387.6
32.5°	7146.4	7123.1	7056.9	7033.6	6854.6	6609.5	6683.5	6772.9	7617.1	8523.6	7414.8
35°	7593.8	7582.1	7586.0	7574.3	7387.6	7025.8	6881.9	7002.5	7694.9	8768.6	7508.2
37.5°	8056.7	8087.8	8220.1	8220.1	8021.7	7628.8	7438.2	7403.2	7978.9	9169.3	7729.9
40°	8519.7	8597.5	8764.8	9029.3	8749.2	8383.5	8076.2	8021.7	8321.3	9706.2	8262.9
42.5°	8963.2	9091.5	9422.2	9815.1	9721.8	9356.1	8947.6	8885.4	9025.4	10503.7	9005.9
45°	9531.1	9640.1	10161.4	10764.3	10892.7	10569.8	10091.3	10040.8	10033.0	11670.8	10029.1
47.5°	10394.8	10511.5	11032.8	11639.7	12036.5	12087.0	11550.2	11495.7	11309.0	13246.3	11526.8
50°	11476.3	11666.9	12106.5	12814.5	13390.3	13931.0	13779.3	13619.8	13254.1	15078.6	13425.3
52.5°	12266.0	12499.4	13094.6	14001.0	15016.4	15876.1	16420.8	16420.8	15580.5	17089.9	15708.9
55°	12476.1	12616.1	13366.9	14677.9	16416.9	18591.5	19731.4	19645.8	18350.4	19206.2	18365.9
57.5°	11639.7	11822.5	12732.8	14106.1	17152.2	21131.9	23018.7	23038.1	21377.0	21664.9	20987.9
60°	9336.6	9395.0	10468.7	12304.9	16444.1	23178.2	27508.0	27581.9	24819.9	23855.1	22322.3
62.5°	6453.9	6640.7	7449.8	9060.4	13623.7	22948.6	31837.9	32203.6	27578.0	25010.5	22532.4
65°	4248.2	4361.0	4792.8	5773.1	9484.5	19890.9	33183.9	34312.1	29686.6	25076.6	21653.2
67.5°	3081.1	3100.5	3228.9	3734.6	5699.2	14304.5	30884.8	32475.9	30476.3	24524.2	19591.3
70°	2489.8	2505.3	2552.0	2874.9	3680.2	8951.5	25189.4	27683.1	28107.1	21906.0	15778.9
72.5°	2022.9	2042.4	2100.7	2404.2	3034.4	4979.5	18420.4	21458.7	22863.1	16206.8	10488.1
75°	1591.1	1606.7	1746.7	2046.3	2851.6	3419.5	12219.3	15195.4	15386.0	9472.8	4909.5
77.5°	1089.3	1116.5	1287.7	1735.1	2684.3	2991.6	7617.1	9733.4	8733.6	3707.4	1688.4
80°	692.5	731.4	832.5	1314.9	2373.1	2855.4	4738.3	5812.0	3824.1	1268.2	813.1
82.5°	408.5	447.4	548.5	852.0	1863.4	2649.3	3337.8	3637.4	1793.4	649.7	490.2
85°	225.6	252.9	330.7	513.5	1093.2	2353.6	2672.6	2610.4	1027.0	346.2	307.3
87.5°	73.9	85.6	120.6	206.2	451.3	1108.7	1602.8	1505.5	533.0	159.5	120.6
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: P480604
 CATALOG NUMBER: IFLD-L-SA8A-760-U-SL3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	9507.8	9507.8	9507.8	9507.8	9507.8	9507.8	9507.8	9507.8	9507.8	9507.8	9507.8
2.5°	9500.0	9488.3	9313.3	9181.0	8955.4	8768.6	8694.7	8593.6	8589.7	8515.8	8496.3
5°	9270.5	9149.9	8881.5	8624.7	8224.0	7955.6	7710.5	7539.3	7469.3	7317.6	7282.6
7.5°	8974.8	8815.3	8403.0	7920.6	7449.8	7029.7	6648.5	6267.2	6053.2	5979.3	5897.6
10°	8667.5	8387.4	7776.6	7235.9	6578.4	5932.6	5333.5	4796.7	4504.9	4298.7	4209.3
12.5°	8422.4	8048.9	7270.9	6461.7	5594.2	4730.6	4034.2	3470.1	3139.4	2983.8	2913.8
15°	8146.2	7652.1	6718.5	5695.3	4613.8	3633.5	2952.7	2509.2	2376.9	2303.0	2291.4
17.5°	7854.4	7282.6	6119.4	4940.6	3656.8	2734.9	2295.3	2116.3	2057.9	2026.8	2011.3
20°	7582.1	6951.9	5504.7	4100.3	2863.2	2194.1	1987.9	1894.6	1890.7	1906.2	1902.3
22.5°	7197.0	6520.1	4897.8	3322.3	2287.5	1910.1	1777.8	1754.5	1777.8	1797.3	1805.1
25°	6979.1	6166.1	4220.9	2637.6	1890.7	1696.2	1653.4	1645.6	1680.6	1703.9	1700.0
27.5°	6753.5	5800.4	3590.7	2112.4	1657.3	1544.4	1536.7	1544.4	1579.4	1614.5	1610.6
30°	6578.4	5508.6	2999.4	1766.2	1478.3	1435.5	1427.7	1435.5	1455.0	1458.8	1458.8
32.5°	6434.5	5162.4	2497.5	1532.8	1369.4	1334.4	1342.1	1338.2	1342.1	1346.0	1349.9
35°	6348.9	4956.2	2085.2	1388.8	1279.9	1252.7	1248.8	1237.1	1241.0	1244.9	1241.0
37.5°	6531.7	4855.0	1758.4	1287.7	1217.7	1194.3	1186.5	1178.7	1167.1	1167.1	1167.1
40°	6808.0	4800.6	1560.0	1221.5	1171.0	1143.7	1120.4	1112.6	1112.6	1116.5	1120.4
42.5°	7356.5	4890.1	1423.8	1171.0	1112.6	1081.5	1058.2	1062.0	1073.7	1085.4	1077.6
45°	8150.1	5162.4	1361.6	1132.1	1077.6	1034.8	1019.2	1015.4	1027.0	1046.5	1062.0
47.5°	9188.8	5586.4	1338.2	1097.1	1054.3	995.9	976.5	988.1	1003.7	1030.9	1019.2
50°	10888.8	6539.5	1357.7	1065.9	1019.2	976.5	953.1	941.4	953.1	972.6	980.3
52.5°	13110.2	8270.7	1431.6	1050.4	995.9	960.9	922.0	902.5	914.2	929.8	929.8
55°	15767.2	10636.0	1637.8	1030.9	957.0	937.6	894.8	855.9	863.6	863.6	859.7
57.5°	18109.2	12421.6	1882.9	1003.7	933.7	906.4	852.0	805.3	797.5	801.4	805.3
60°	19159.5	12896.2	1999.6	995.9	933.7	867.5	793.6	746.9	735.3	727.5	727.5
62.5°	18976.7	12075.4	1762.3	960.9	957.0	836.4	739.1	688.6	673.0	657.5	661.3
65°	17871.8	10904.4	1388.8	914.2	960.9	817.0	684.7	634.1	606.9	587.4	583.5
67.5°	15852.8	9309.4	1100.9	879.2	922.0	781.9	638.0	579.6	556.3	536.9	529.1
70°	12402.1	7298.1	957.0	832.5	828.6	696.4	583.5	533.0	498.0	474.6	474.6
72.5°	8041.2	4613.8	820.8	739.1	715.8	583.5	505.7	474.6	447.4	427.9	427.9
75°	3641.3	2143.5	661.3	618.6	583.5	466.8	427.9	412.4	389.0	369.6	369.6
77.5°	1307.1	914.2	494.1	486.3	435.7	361.8	346.2	334.6	319.0	299.5	299.5
80°	731.4	579.6	369.6	354.0	303.4	268.4	249.0	249.0	241.2	229.5	225.6
82.5°	462.9	377.4	272.3	237.3	198.4	179.0	171.2	167.3	163.4	147.8	143.9
85°	291.8	256.8	179.0	140.0	116.7	89.5	85.6	81.7	73.9	66.1	66.1
87.5°	132.3	147.8	70.0	42.8	31.1	19.5	11.7	3.9	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)