

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: P480827

Luminaire Tested: **IFLD-S-SA6E-730-U-SL4**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480827
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6E-730-U-SL4
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens
Light Source: (96) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

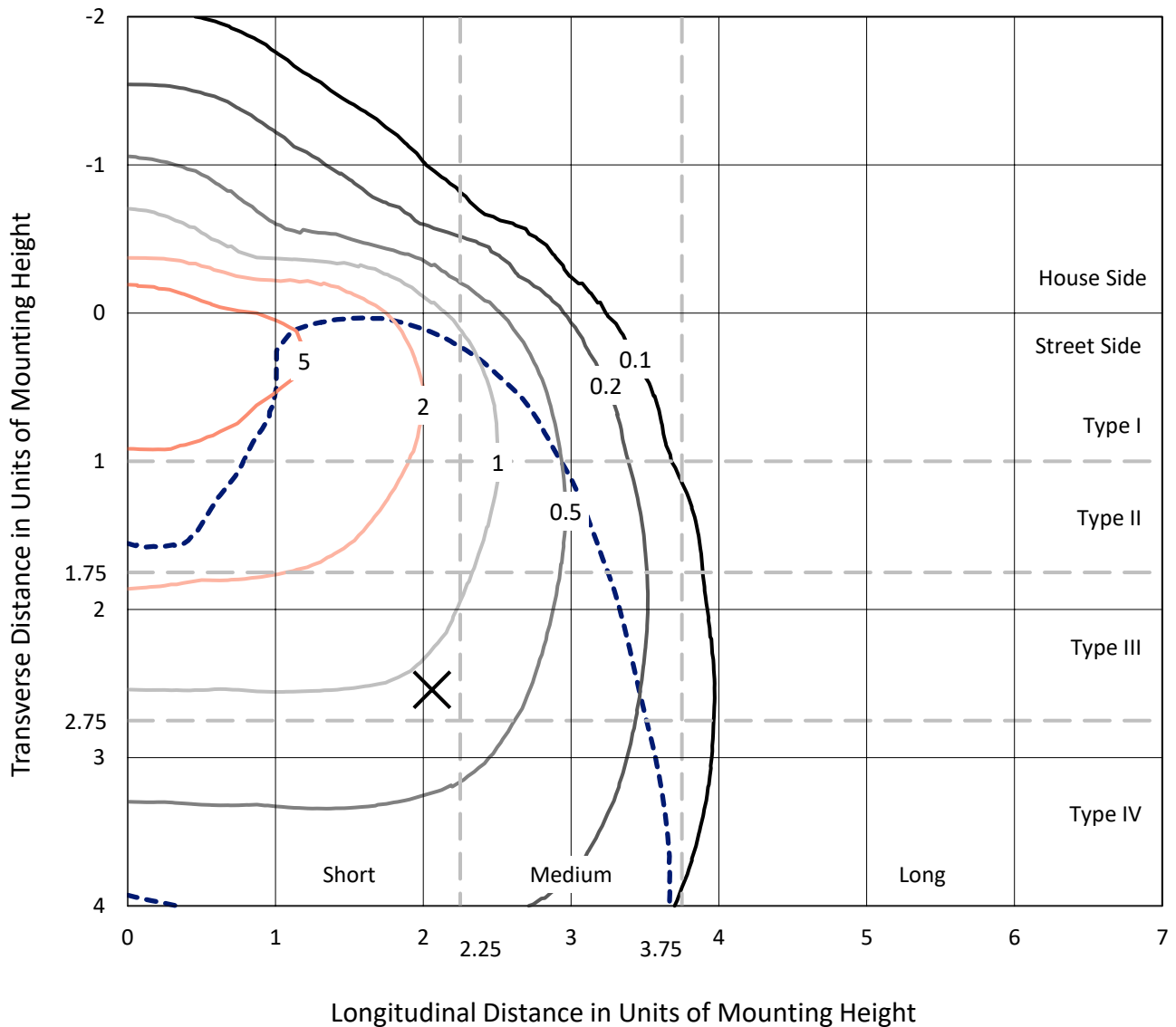
Lumens per Lamp: N/A
Luminaire Lumens: 46606 lumens
Efficiency: N/A
Efficacy: 100.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 464.2
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

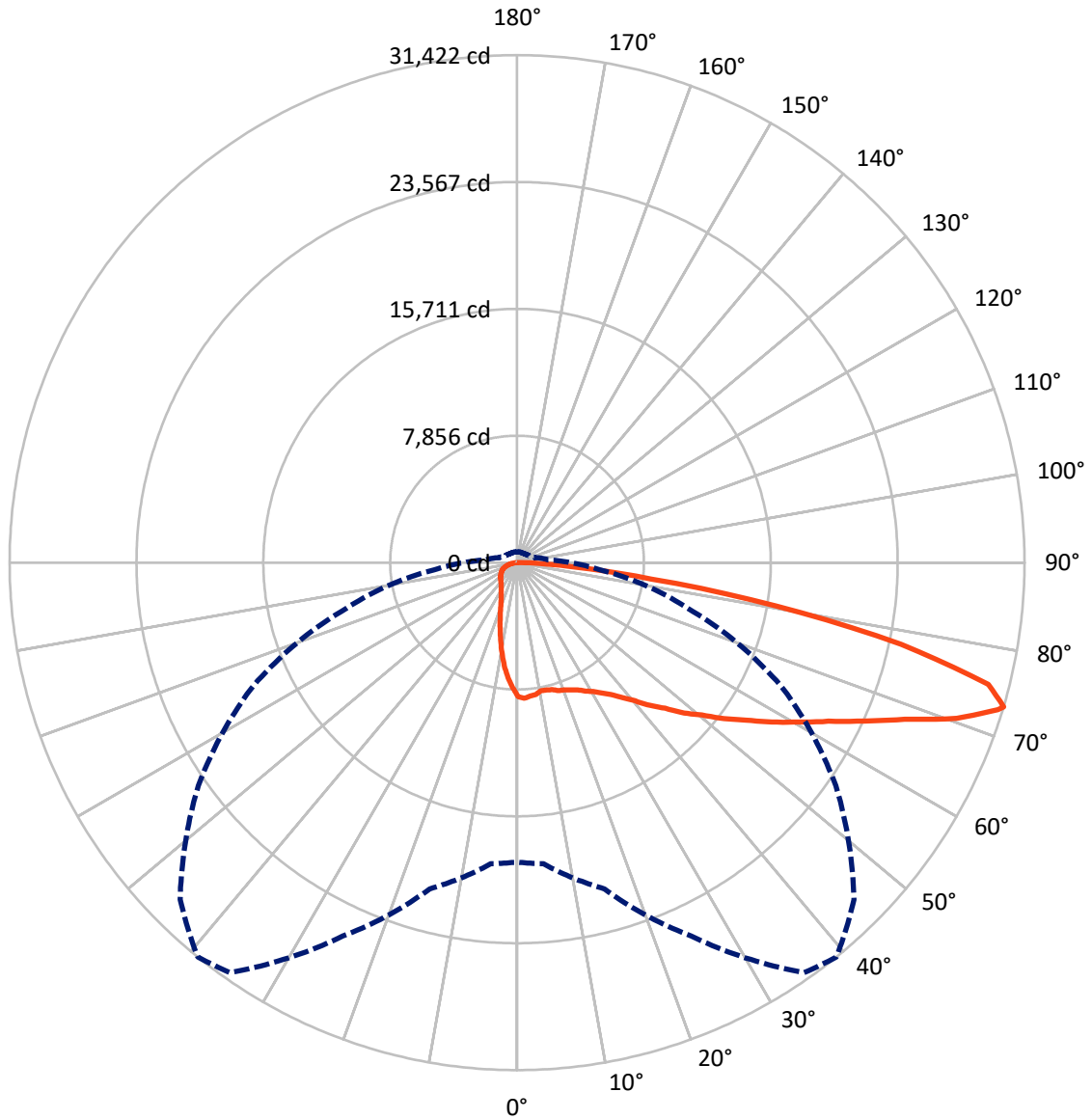
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 9.2 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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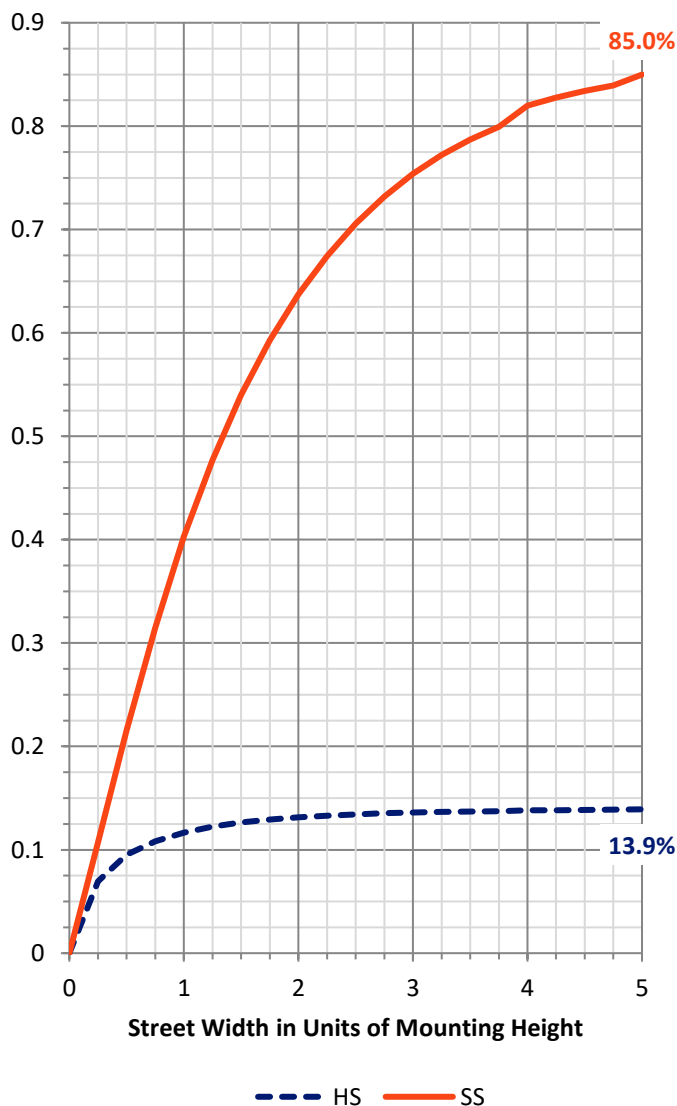
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6551.5	0.0	6551.5
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	40054.5	0.0	40054.5
	% Fixture	85.9	0.0	85.9
Total	Lumens	46606.0	0.0	46606.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	720.2	1.5
10°-20°	1830.8	3.9
20°-30°	2797.6	6.0
30°-40°	4079.0	8.8
40°-50°	6163.8	13.2
50°-60°	8925.6	19.2
60°-70°	11340.4	24.3
70°-80°	9193.1	19.7
80°-90°	1555.4	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°	46606.0	100.0
0°-180°	46606.0	100.0

Coefficient of Utilization



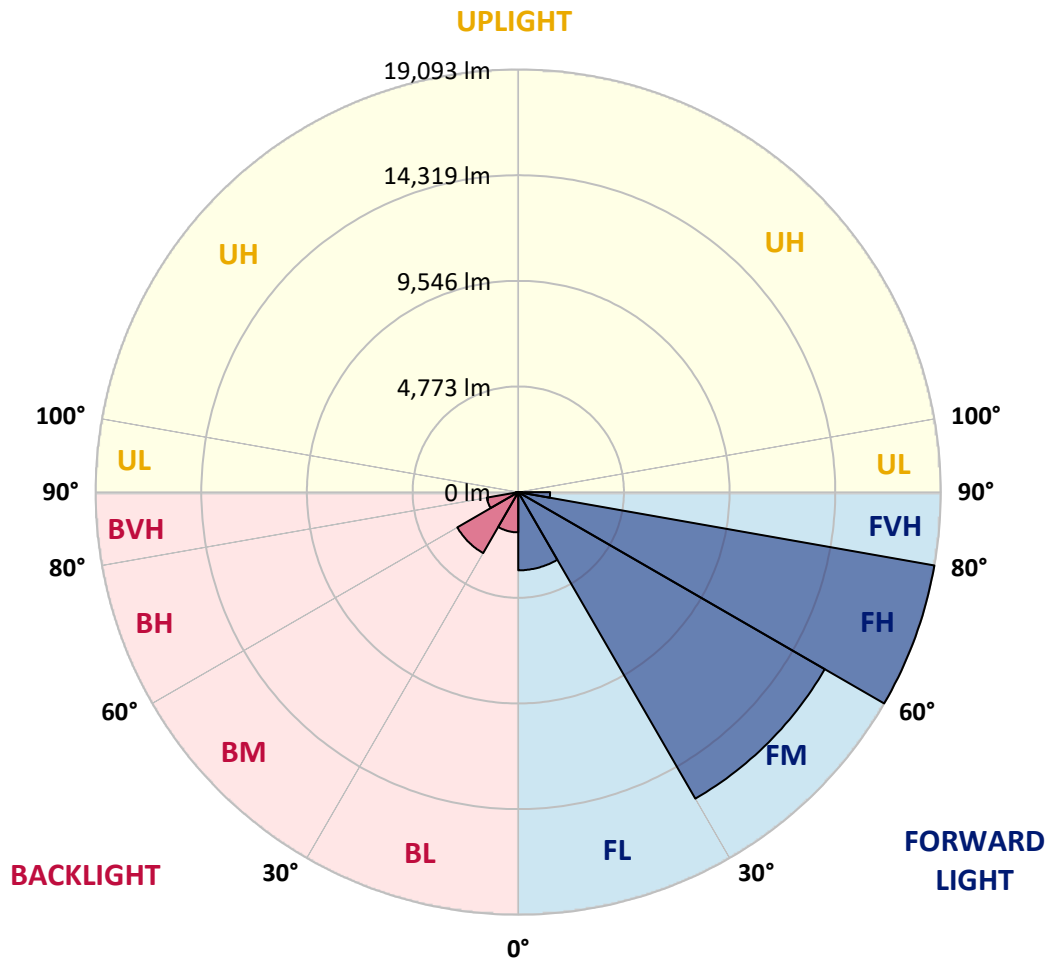
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3531.7	7.6			
FM (30°-60°)	15988.9	34.3			
FH (60°-80°)	19092.6	41.0			G5
FVH (80°-90°)	1441.3	3.1			G5
BL (0°-30°)	1816.9	3.9	B3/2500		
BM (30°-60°)	3179.6	6.8	B3/5000		
BH (60°-80°)	1440.9	3.1	B3/2500		G3/2500
BVH (80°-90°)	114.1	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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	8296.2	8296.2	8296.2	8296.2	8296.2	8296.2	8296.2	8296.2	8296.2	8296.2	8296.2
2.5°	8494.3	8405.7	8421.3	8390.0	8421.3	8410.9	8395.2	8317.0	8395.2	8317.0	8296.2
5°	8379.6	8379.6	8431.7	8353.5	8363.9	8311.8	8363.9	8306.6	8254.4	8124.1	8087.6
7.5°	8343.1	8337.9	8343.1	8233.6	8285.7	8254.4	8202.3	8139.7	8035.4	7952.0	7832.1
10°	8092.8	8144.9	8087.6	8118.9	8160.6	8066.7	8061.5	8045.9	7998.9	7889.4	7816.4
12.5°	7957.2	8045.9	8077.1	8051.1	8087.6	8098.0	8066.7	8045.9	7988.5	7915.5	7706.9
15°	8014.6	7910.3	7998.9	8171.0	8134.5	8160.6	8165.8	8144.9	8118.9	7983.3	7847.7
17.5°	8030.2	7967.6	8155.4	8191.9	8238.8	8332.7	8270.1	8264.9	8165.8	8071.9	7873.8
20°	8066.7	8040.6	8191.9	8384.8	8390.0	8405.7	8436.9	8358.7	8306.6	8144.9	7842.5
22.5°	8202.3	8290.9	8431.7	8515.2	8562.1	8572.5	8572.5	8416.1	8358.7	8228.4	7988.5
25°	8609.0	8515.2	8713.3	8812.4	8744.6	8729.0	8692.5	8551.7	8489.1	8374.4	8056.3
27.5°	8906.2	8901.0	9015.7	9151.3	8968.8	9005.3	8875.0	8833.2	8692.5	8629.9	8176.2
30°	9313.0	9427.7	9422.5	9464.2	9224.3	9266.0	9099.2	9021.0	8942.7	8979.2	8530.8
32.5°	9834.4	9792.7	9860.5	9829.2	9589.3	9625.8	9427.7	9307.8	9333.8	9443.3	9015.7
35°	10168.1	10126.4	10152.5	10152.5	10079.5	10037.8	9954.3	9797.9	9923.1	10126.4	9558.0
37.5°	10527.9	10580.1	10731.3	10700.0	10606.1	10606.1	10595.7	10486.2	10647.9	11148.4	10423.6
40°	10846.0	10986.8	11080.7	11143.2	11252.7	11252.7	11341.4	11278.8	11570.8	12373.8	11482.2
42.5°	11179.7	11184.9	11696.0	11742.9	11988.0	12092.3	12160.0	12212.2	12759.7	13656.6	12613.7
45°	11607.3	11633.4	12081.8	12441.6	12822.3	12858.8	13114.3	13286.4	13959.0	15059.3	13844.3
47.5°	12170.5	12139.2	12618.9	13192.5	13667.0	13917.3	14225.0	14412.7	15241.8	16581.9	15189.6
50°	12910.9	12817.1	13093.4	13995.5	14553.5	14829.8	15377.3	15690.2	16660.1	18036.7	16112.6
52.5°	13813.0	13656.6	13875.6	14861.1	15486.9	16044.8	16566.2	16915.6	17927.2	19163.0	16795.7
55°	14767.3	14444.0	14506.5	15778.9	16681.0	17207.6	17922.0	18287.0	19319.5	20174.6	17478.8
57.5°	15711.1	15507.7	15382.6	16660.1	18104.5	18610.3	19267.3	19741.8	20617.8	21071.5	18057.6
60°	16503.7	16451.5	16248.2	18026.3	19611.5	20044.3	20732.6	21024.6	21686.8	21900.6	18068.0
62.5°	17155.5	16978.2	17301.5	19126.5	21144.5	21634.7	22390.8	22416.8	22886.1	22416.8	17536.1
65°	17666.5	17676.9	18193.1	20456.2	22917.4	23642.2	24252.3	24184.5	23882.1	22109.2	16279.4
67.5°	18130.6	18328.7	19084.8	21916.2	25196.1	25879.2	26557.1	25660.2	24153.2	20670.0	13823.4
70°	18495.6	18693.7	20289.3	23694.4	27881.5	28882.7	29033.9	26244.2	22907.0	17510.0	10428.9
72.5°	18453.9	18813.7	20972.4	25112.7	30264.5	31130.1	29910.0	24601.7	19084.8	12207.0	6085.2
73°	18542.5	18719.8	20915.1	25509.0	30989.3	31422.1	29503.2	24085.4	18000.2	10950.3	5146.6
75°	16832.2	17431.8	19877.4	24862.4	30212.4	30134.2	27167.2	20070.3	12796.2	5751.5	2492.5
77.5°	12452.1	12832.7	15664.1	20445.8	24799.8	24299.2	20492.7	12827.5	6074.8	2132.7	1345.3
80°	6085.2	6382.5	8301.4	11805.5	16216.9	16258.6	12718.0	6674.5	2602.0	1204.5	917.7
82.5°	3040.0	3217.3	3989.0	5188.4	7978.1	8358.7	6450.2	3796.1	1611.3	683.1	521.4
85°	1986.7	2111.8	2456.0	2539.4	3384.2	3571.9	3003.5	2961.8	1048.1	370.2	422.4
87.5°	1319.3	1340.1	1507.0	1282.7	1355.8	1303.6	1449.6	1866.8	307.7	156.4	114.7
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°	8296.2	8296.2	8296.2	8296.2	8296.2	8296.2	8296.2	8296.2	8296.2	8296.2	8296.2
2.5°	8270.1	8197.1	8118.9	8009.4	7931.1	7811.2	7701.7	7654.8	7644.4	7649.6	7597.4
5°	8056.3	7952.0	7795.6	7571.3	7441.0	7242.8	7076.0	6987.3	6893.5	6909.1	6867.4
7.5°	7759.1	7644.4	7404.5	7143.8	6820.5	6538.9	6382.5	6163.5	6038.3	5944.4	5996.6
10°	7665.2	7467.1	7107.3	6747.5	6246.9	5876.7	5516.9	5266.6	5094.5	4927.6	5000.6
12.5°	7618.3	7420.1	6919.5	6387.7	5741.1	5177.9	4672.1	4364.5	4119.4	3973.4	4030.8
15°	7576.6	7331.5	6742.3	5991.4	5266.6	4526.1	3957.8	3551.0	3316.4	3175.6	3191.2
17.5°	7633.9	7284.6	6481.5	5605.5	4745.1	3952.5	3321.6	2899.2	2659.4	2570.7	2549.9
20°	7576.6	7232.4	6226.0	5219.6	4223.7	3405.0	2800.1	2450.8	2283.9	2210.9	2195.3
22.5°	7597.4	7107.3	5960.1	4792.1	3738.7	2946.2	2450.8	2184.8	2054.5	2018.0	2028.4
25°	7696.5	7034.3	5694.2	4322.8	3259.0	2607.2	2226.6	2023.2	1929.3	1892.8	1903.3
27.5°	7769.5	7096.8	5454.3	3879.5	2852.3	2304.8	2038.8	1903.3	1840.7	1814.6	1809.4
30°	7952.0	7133.3	5219.6	3483.2	2518.6	2106.6	1908.5	1799.0	1757.3	1741.6	1736.4
32.5°	8223.2	7201.1	4948.5	3118.2	2273.5	1918.9	1804.2	1710.3	1699.9	1684.3	1689.5
35°	8666.4	7435.8	4646.1	2805.4	2038.8	1793.8	1694.7	1632.1	1632.1	1632.1	1647.8
37.5°	9302.5	7764.3	4374.9	2508.1	1887.6	1684.3	1600.8	1580.0	1569.5	1585.2	1595.6
40°	10121.2	8160.6	4155.9	2273.5	1757.3	1611.3	1538.3	1527.8	1522.6	1517.4	1527.8
42.5°	11018.1	8666.4	3968.2	2091.0	1663.4	1533.0	1480.9	1470.5	1449.6	1460.0	1475.7
45°	11909.8	9292.1	3801.3	1945.0	1600.8	1491.3	1418.3	1413.1	1402.7	1397.5	1423.5
47.5°	12900.5	9907.4	3749.2	1856.3	1553.9	1428.8	1376.6	1371.4	1340.1	1334.9	1355.8
50°	13672.2	10361.1	3806.5	1814.6	1486.1	1381.8	1345.3	1319.3	1293.2	1267.1	1267.1
52.5°	14204.1	10673.9	3848.2	1783.3	1449.6	1319.3	1272.3	1261.9	1235.8	1209.7	1199.3
55°	14683.8	10861.7	3858.7	1788.5	1413.1	1246.2	1215.0	1209.7	1194.1	1152.4	1142.0
57.5°	14845.5	10783.4	3650.1	1741.6	1392.3	1199.3	1157.6	1168.0	1147.2	1110.7	1105.5
60°	14829.8	10241.1	3175.6	1679.0	1345.3	1147.2	1095.0	1126.3	1126.3	1084.6	1079.4
62.5°	13927.7	8989.7	2596.8	1559.1	1293.2	1095.0	1037.7	1084.6	1100.2	1074.2	1069.0
65°	12055.8	7321.1	2169.2	1439.2	1215.0	1037.7	980.3	1032.5	1058.5	1048.1	1042.9
67.5°	9975.2	5600.3	1804.2	1282.7	1115.9	959.5	912.5	949.0	964.7	969.9	975.1
70°	7049.9	3728.3	1507.0	1110.7	980.3	876.0	823.9	829.1	823.9	839.5	839.5
72.5°	3832.6	2148.3	1225.4	943.8	844.7	761.3	724.8	698.7	698.7	693.5	693.5
73°	3279.9	1929.3	1168.0	917.7	808.2	740.4	698.7	677.9	677.9	672.7	667.4
75°	1840.7	1413.1	1001.2	787.4	698.7	646.6	615.3	584.0	578.8	578.8	578.8
77.5°	1209.7	1100.2	797.8	630.9	563.2	516.2	505.8	474.5	474.5	474.5	469.3
80°	907.3	865.6	615.3	479.7	432.8	396.3	385.9	365.0	359.8	338.9	344.2
82.5°	604.9	683.1	448.4	338.9	292.0	271.2	271.2	265.9	250.3	224.2	224.2
85°	479.7	557.9	323.3	208.6	172.1	146.0	151.2	146.0	140.8	114.7	109.5
87.5°	88.6	224.2	93.9	57.4	41.7	26.1	26.1	15.6	10.4	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)