

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: P480016

Luminaire Tested: **IFLD-L-SA7C-727-U-SL2**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480016
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7C-727-U-SL2
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens
Light Source: (112) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

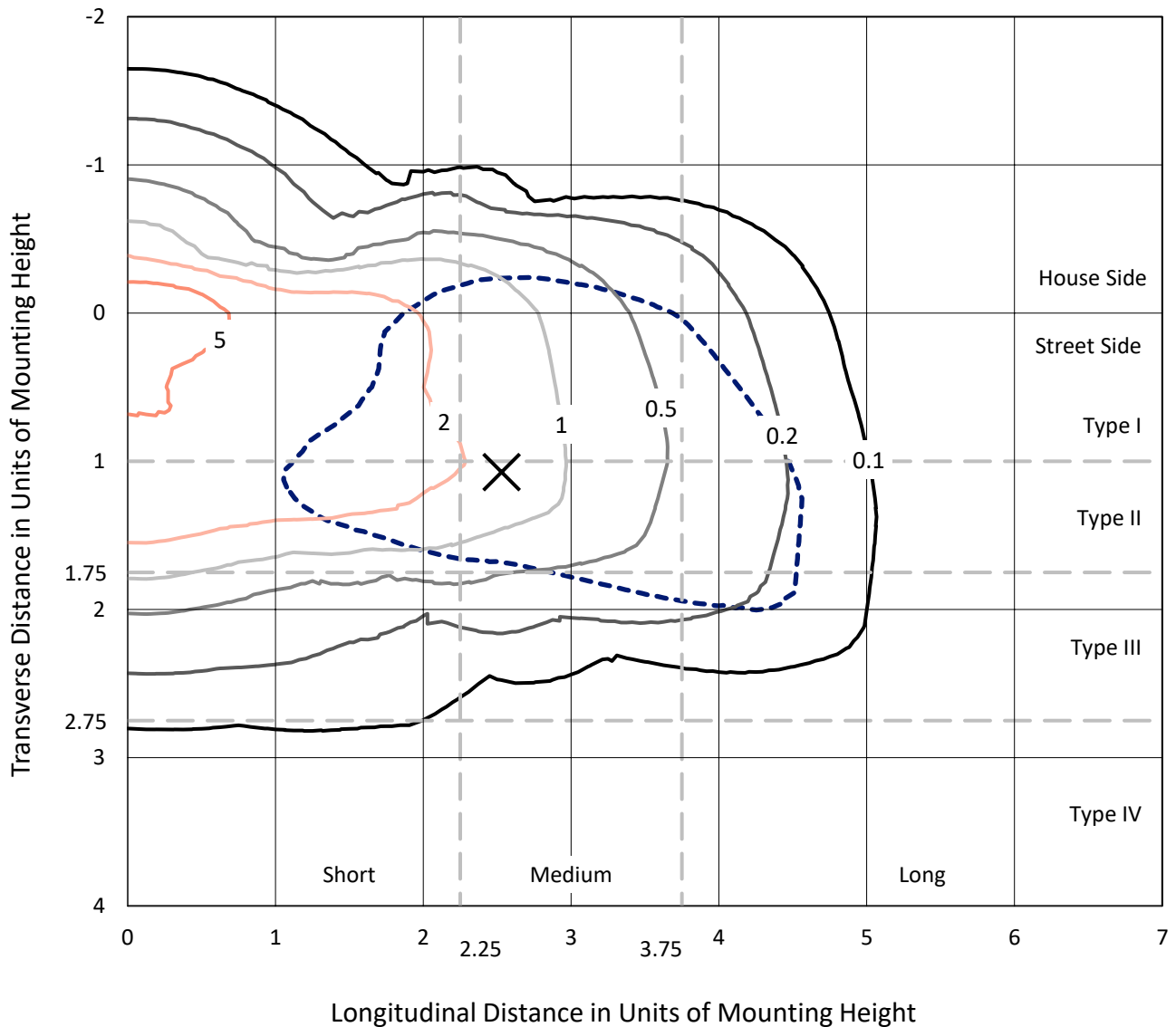
Lumens per Lamp: N/A
Luminaire Lumens: 36964.8 lumens
Efficiency: N/A
Efficacy: 100.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G5

Input Watts (W): 369
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

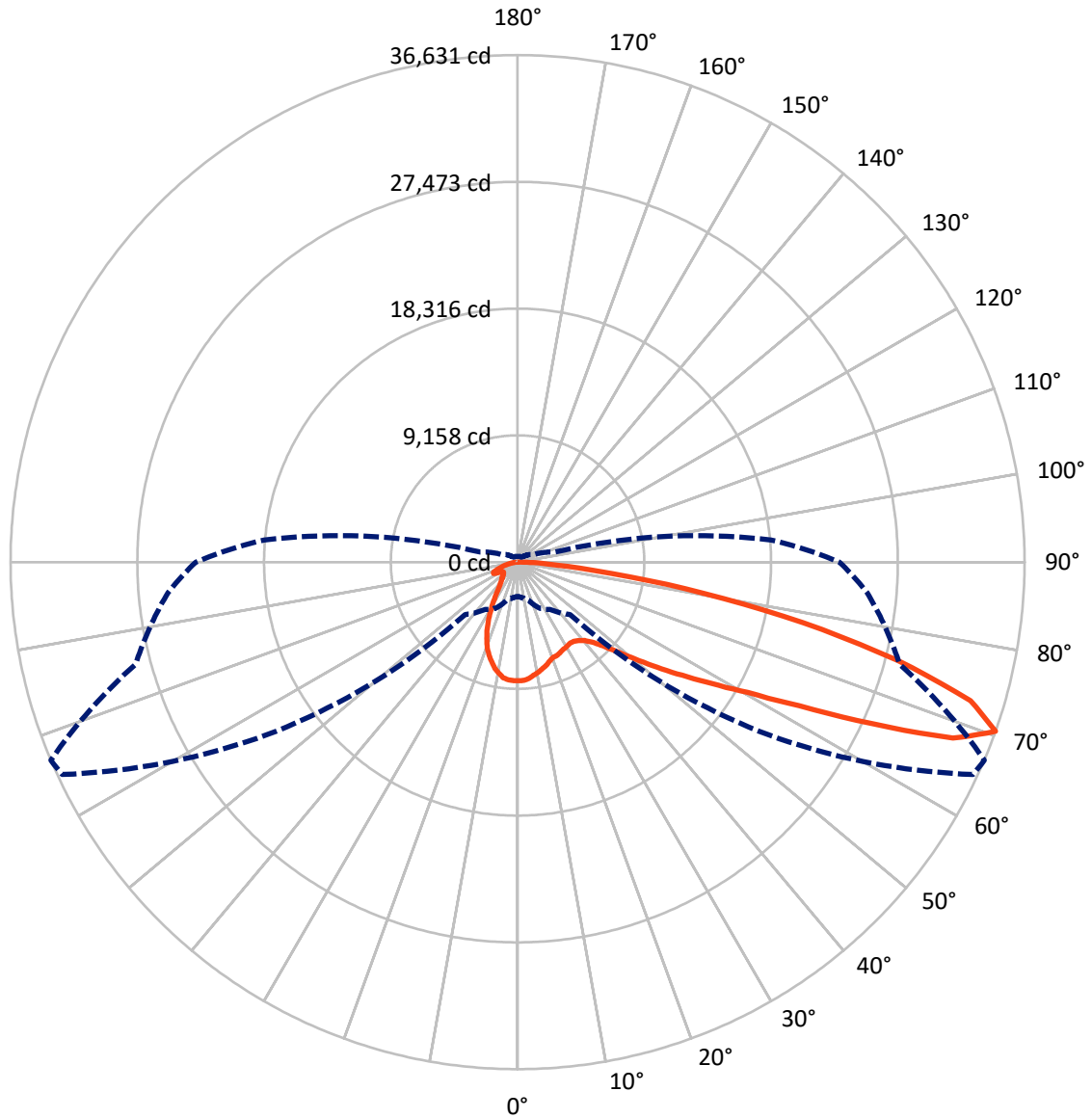
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 9.6 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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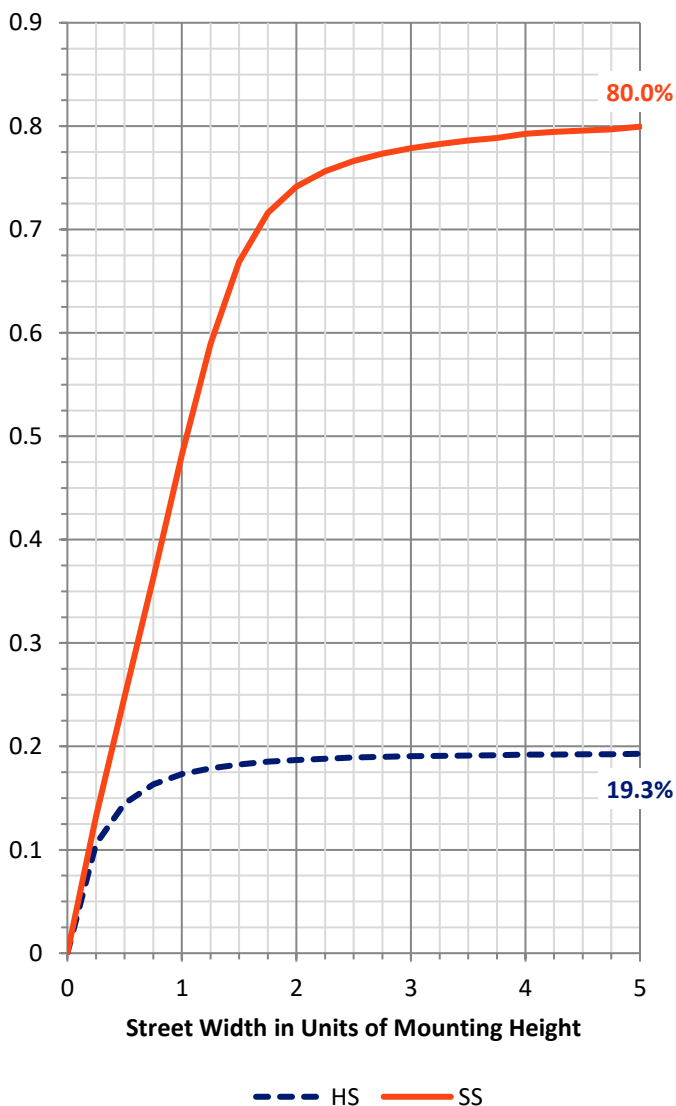
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7199.3	0.0	7199.3
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	29765.6	0.0	29765.6
	% Fixture	80.5	0.0	80.5
Total	Lumens	36964.8	0.0	36964.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	746.6	2.0
10°-20°	1788.2	4.8
20°-30°	2414.8	6.5
30°-40°	3231.2	8.7
40°-50°	4751.4	12.9
50°-60°	7406.3	20.0
60°-70°	9123.3	24.7
70°-80°	6446.4	17.4
80°-90°	1056.6	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°	36964.8	100.0
0°-180°	36964.8	100.0

Coefficient of Utilization



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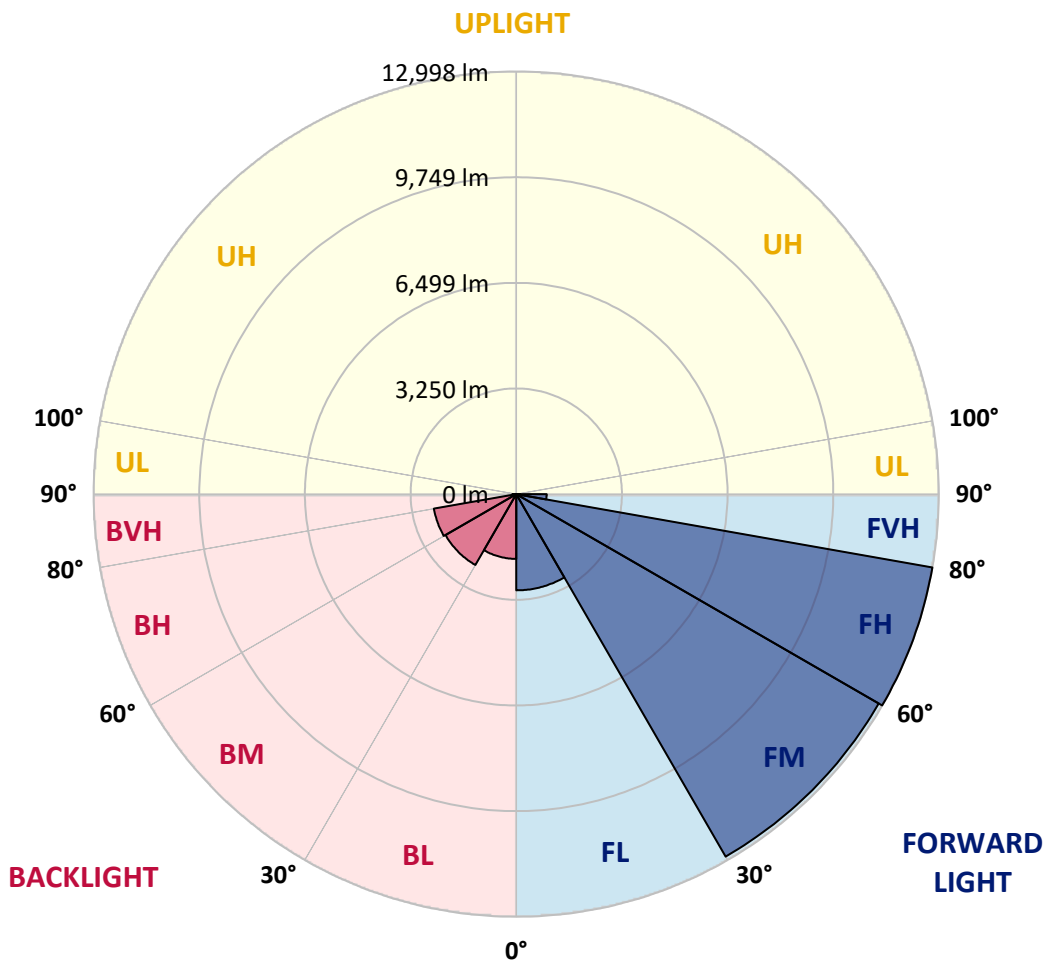
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2958.8	8.0			
FM (30°-60°)	12874.0	34.8			
FH (60°-80°)	12998.1	35.2			G5
FVH (80°-90°)	934.7	2.5			G5
BL (0°-30°)	1990.8	5.4	B3/2500		
BM (30°-60°)	2514.9	6.8	B3/5000		
BH (60°-80°)	2571.7	7.0	B4/5000		G4/5000
BVH (80°-90°)	121.9	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°	8557.2	8557.2	8557.2	8557.2	8557.2	8557.2	8557.2	8557.2	8557.2	8557.2	8557.2
2.5°	7967.9	8058.0	8090.7	8139.8	8266.7	8360.8	8418.1	8483.6	8561.3	8626.8	8667.7
5°	7411.4	7460.5	7538.2	7591.4	7751.0	8004.8	8176.6	8454.9	8446.7	8549.1	8704.6
7.5°	6871.2	6920.3	6957.1	7063.5	7292.7	7521.9	7837.0	8287.1	8254.4	8491.8	8733.2
10°	6535.6	6498.8	6511.0	6691.1	6871.2	7129.0	7525.9	7984.3	8103.0	8471.3	8815.1
12.5°	6220.5	6179.5	6277.8	6392.4	6613.3	6846.6	7321.3	7734.7	7914.7	8397.6	8851.9
15°	6024.0	5995.4	6118.2	6167.3	6429.2	6707.5	7043.0	7546.4	7742.8	8307.6	8794.6
17.5°	5913.5	5938.1	5983.1	6089.5	6257.3	6494.7	6863.0	7419.5	7505.5	8197.1	8782.3
20°	5934.0	5962.6	5966.7	6011.8	6126.3	6310.5	6687.0	7284.5	7341.8	8176.6	8815.1
22.5°	6097.7	6056.8	6073.1	6044.5	6077.2	6220.5	6552.0	7104.4	7325.4	8004.8	8745.5
25°	6343.2	6285.9	6277.8	6179.5	6118.2	6159.1	6527.4	7059.4	7202.6	7951.6	8741.4
27.5°	6777.0	6691.1	6691.1	6543.8	6294.1	6228.7	6457.8	6985.8	7112.6	7902.5	8647.3
30°	7194.5	7194.5	7198.6	6989.8	6711.6	6388.3	6486.5	6957.1	7039.0	7755.1	8520.4
32.5°	7701.9	7689.6	7669.2	7566.9	7137.2	6654.3	6625.6	6920.3	6961.2	7706.0	8483.6
35°	8197.1	8164.4	8324.0	8233.9	7796.0	7174.0	6768.9	6936.6	7026.7	7632.4	8369.0
37.5°	8569.5	8590.0	8921.5	8978.8	8602.3	7763.3	7174.0	7100.3	7186.3	7738.8	8369.0
40°	9052.4	9134.3	9445.3	9637.6	9408.5	8540.9	7816.5	7374.5	7435.9	7976.1	8549.1
42.5°	9686.7	9756.3	10153.3	10402.9	10337.4	9531.2	8450.8	7947.5	7898.4	8373.1	8819.2
45°	10525.7	10538.0	10939.0	11282.8	11417.8	10566.6	9457.6	8671.8	8630.9	9056.5	9314.3
47.5°	11524.2	11512.0	11761.6	12129.9	12494.1	11802.5	10615.7	9772.7	9625.4	10034.6	10136.9
50°	12490.0	12436.8	12494.1	12964.8	13664.6	13349.5	12023.5	11119.1	10971.8	11196.8	11372.8
52.5°	13022.1	13087.5	12932.0	13554.1	14908.7	15178.8	13889.7	12727.4	12600.5	12711.0	13018.0
55°	12649.7	12784.7	12682.4	13271.7	15453.0	17409.1	16304.2	14589.5	14425.8	14384.8	14888.2
57.5°	11065.9	11311.4	11331.9	12265.0	15264.7	19136.1	19700.9	16787.1	16541.5	16124.1	16643.8
60°	8495.9	8741.4	8929.6	10034.6	13652.3	20167.4	23637.8	19913.7	19103.4	18023.0	18334.0
62.5°	5954.5	6122.3	6310.5	6989.8	10525.7	19561.7	27042.7	24317.1	22823.4	20024.2	20413.0
65°	4338.0	4468.9	4661.3	5062.3	6466.0	16185.5	28622.3	29547.2	28131.3	22569.7	22520.6
67.5°	3265.7	3347.6	3601.3	4243.8	4481.2	9997.8	26985.4	35072.0	33926.1	25397.5	24214.8
70°	2471.8	2541.4	2778.7	3658.6	4186.5	5361.1	21288.7	36303.8	36631.2	28569.1	25352.5
72.5°	1702.4	1780.2	2046.2	3048.8	3986.0	4252.0	13361.7	32980.8	34220.8	29874.6	24133.0
75°	1043.6	1096.8	1252.3	2312.2	3957.4	4157.9	7354.1	27026.3	28340.0	27603.3	21112.8
77.5°	736.6	732.5	761.2	1354.6	3429.4	4182.4	4534.4	19803.2	21080.0	20343.4	14327.5
80°	536.1	540.2	568.8	810.3	2328.6	4252.0	3572.7	13263.5	13644.1	10607.5	5651.6
82.5°	323.3	339.7	409.2	548.4	1399.6	3838.7	3302.6	7370.4	6895.7	3404.9	1555.1
85°	171.9	171.9	241.5	347.9	744.8	2864.7	3179.8	3507.2	2938.4	1055.8	577.0
87.5°	40.9	40.9	69.6	139.1	298.7	1371.0	2169.0	1395.5	1117.2	356.0	237.4
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°	8557.2	8557.2	8557.2	8557.2	8557.2	8557.2	8557.2	8557.2	8557.2	8557.2	8557.2
2.5°	8651.4	8602.3	8663.6	8540.9	8442.7	8446.7	8295.3	8287.1	8266.7	8160.3	8197.1
5°	8749.6	8708.7	8639.1	8504.0	8287.1	8070.2	7939.3	7771.5	7701.9	7665.1	7681.5
7.5°	8843.7	8770.0	8569.5	8381.3	8045.7	7636.4	7399.1	7174.0	6887.5	6854.8	6797.5
10°	8868.3	8712.7	8454.9	8053.9	7607.8	7153.5	6613.3	6195.9	5974.9	5803.0	5737.6
12.5°	8831.4	8766.0	8270.8	7755.1	7079.9	6367.8	5737.6	5148.3	4739.0	4526.2	4468.9
15°	8827.3	8712.7	8066.1	7300.9	6437.4	5508.4	4612.2	3904.2	3474.5	3298.5	3298.5
17.5°	8831.4	8557.2	7824.7	6842.5	5680.3	4423.9	3437.6	2856.5	2619.1	2594.6	2615.1
20°	8749.6	8442.7	7571.0	6302.3	4730.8	3323.0	2496.4	2259.0	2259.0	2291.8	2304.0
22.5°	8675.9	8270.8	7169.9	5635.3	3765.0	2406.3	2029.8	1960.3	2038.0	2095.3	2119.9
25°	8573.6	8127.5	6760.7	4943.6	2864.7	1939.8	1763.8	1780.2	1853.9	1956.2	1948.0
27.5°	8426.3	7877.9	6273.7	4141.5	2132.1	1673.8	1628.8	1637.0	1714.7	1759.7	1751.6
30°	8258.5	7624.2	5823.5	3343.5	1690.2	1534.7	1530.6	1551.0	1563.3	1587.9	1583.8
32.5°	8045.7	7288.6	5344.7	2598.7	1522.4	1456.9	1440.5	1428.3	1440.5	1436.4	1424.2
35°	7894.3	7108.5	4857.7	1980.7	1428.3	1387.3	1375.1	1354.6	1338.2	1313.7	1309.6
37.5°	7853.3	6928.5	4346.1	1616.5	1354.6	1334.1	1293.2	1256.4	1235.9	1223.6	1215.4
40°	7828.8	6809.8	3846.9	1420.1	1293.2	1272.7	1223.6	1174.5	1154.1	1141.8	1145.9
42.5°	7914.7	6744.3	3339.4	1321.8	1240.0	1203.2	1150.0	1092.7	1088.6	1080.4	1092.7
45°	8217.6	6826.1	2868.8	1252.3	1186.8	1125.4	1055.8	1027.2	1023.1	1014.9	1023.1
47.5°	8905.1	7030.8	2467.7	1207.3	1129.5	1076.3	1002.6	961.7	957.6	953.5	953.5
50°	9854.5	7661.0	2132.1	1154.1	1092.7	1019.0	949.4	904.4	896.2	879.9	879.9
52.5°	11344.2	8720.9	1931.6	1125.4	1027.2	965.8	892.1	843.0	822.6	806.2	806.2
55°	13022.1	10034.6	1894.8	1076.3	957.6	900.3	834.9	785.7	765.3	744.8	736.6
57.5°	14933.2	11773.9	2156.7	1043.6	908.5	834.9	761.2	716.2	699.8	679.3	671.2
60°	16713.4	13509.1	2971.1	994.5	863.5	773.5	699.8	654.8	634.3	613.9	613.9
62.5°	18771.9	15657.6	4350.2	994.5	822.6	708.0	634.3	601.6	589.3	568.8	564.8
65°	21206.9	17879.8	5357.0	1055.8	810.3	650.7	572.9	540.2	527.9	515.6	511.6
67.5°	23060.8	19156.6	4608.1	1219.5	863.5	601.6	511.6	491.1	482.9	470.6	462.4
70°	23257.2	18379.0	2778.7	1317.8	916.7	552.5	458.4	437.9	437.9	425.6	417.4
72.5°	21493.4	16308.3	1870.2	1174.5	830.8	495.2	405.1	388.8	380.6	372.4	368.3
75°	17986.2	13832.4	1477.4	937.2	638.4	409.2	351.9	335.6	323.3	319.2	311.0
77.5°	12080.8	8991.0	1092.7	732.5	470.6	331.5	294.7	278.3	266.0	261.9	249.6
80°	4640.8	3425.4	703.9	532.0	331.5	261.9	233.3	216.9	208.7	196.4	188.3
82.5°	1366.9	1109.0	392.9	327.4	212.8	180.1	167.8	155.5	143.2	131.0	126.9
85°	564.8	507.5	241.5	171.9	131.0	106.4	98.2	85.9	73.7	65.5	57.3
87.5°	261.9	216.9	110.5	65.5	45.0	24.6	12.3	4.1	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)