

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: P477023

Luminaire Tested: **IFLD-S-SA2D-750-U-T2R**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P477023
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2D-750-U-T2R
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens
Light Source: (32) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

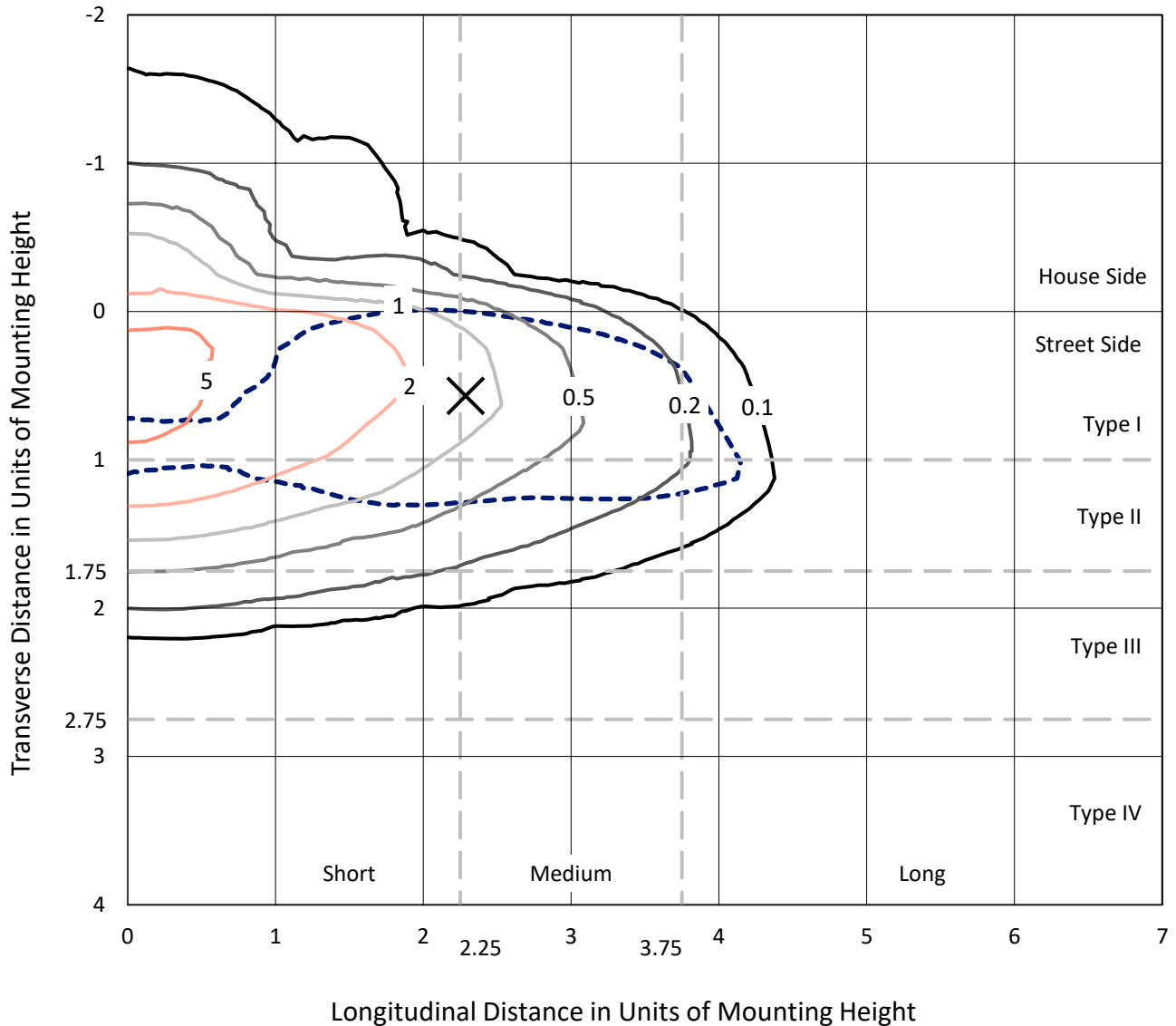
Lumens per Lamp: N/A
Luminaire Lumens: 16087.6 lumens
Efficiency: N/A
Efficacy: 129.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

Input Watts (W): 123.9
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

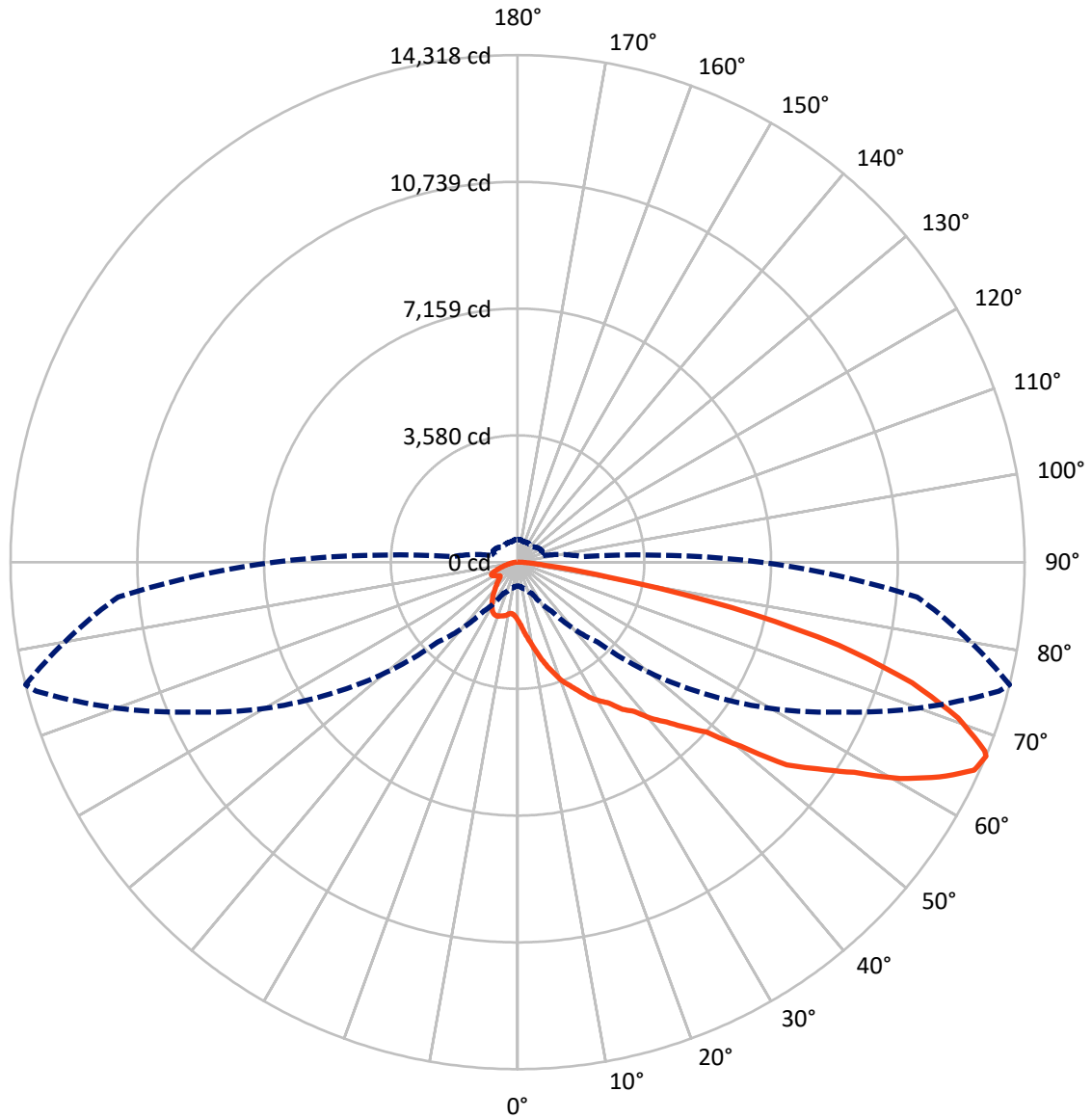
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.1 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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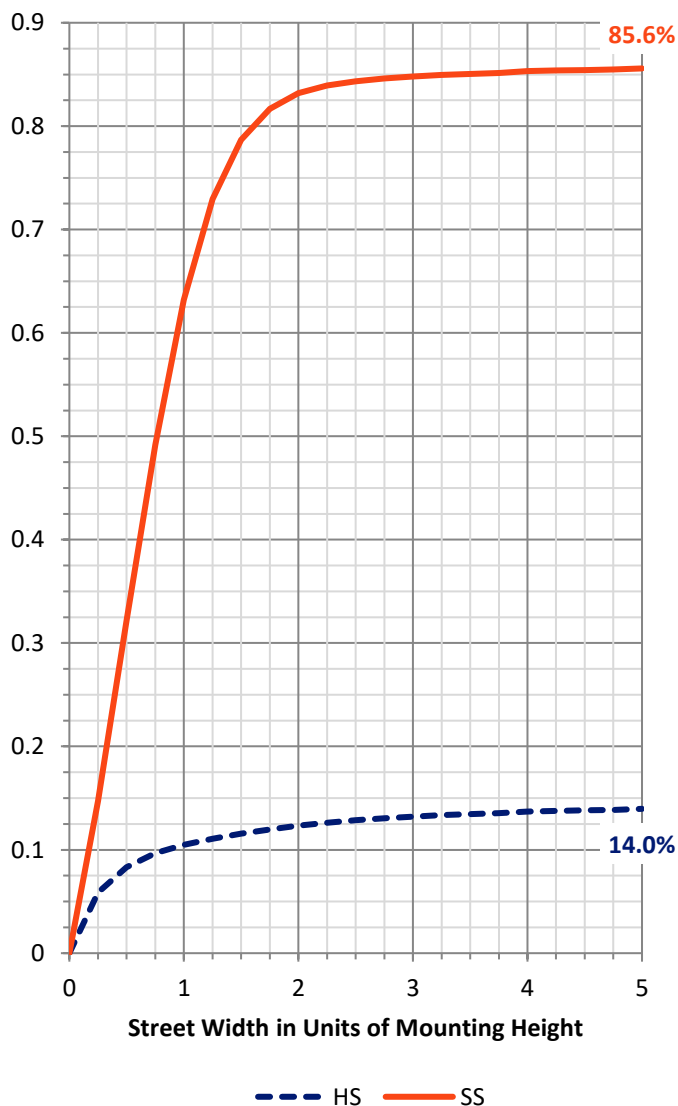
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2288.7	0.0	2288.7
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	13798.9	0.0	13798.9
	% Fixture	85.8	0.0	85.8
Total	Lumens	16087.6	0.0	16087.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	190.7	1.2
10°-20°	715.2	4.4
20°-30°	1329.7	8.3
30°-40°	2107.9	13.1
40°-50°	2915.4	18.1
50°-60°	3586.1	22.3
60°-70°	3337.1	20.7
70°-80°	1674.5	10.4
80°-90°	230.9	1.4
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°	16087.6	100.0
0°-180°	16087.6	100.0

Coefficient of Utilization



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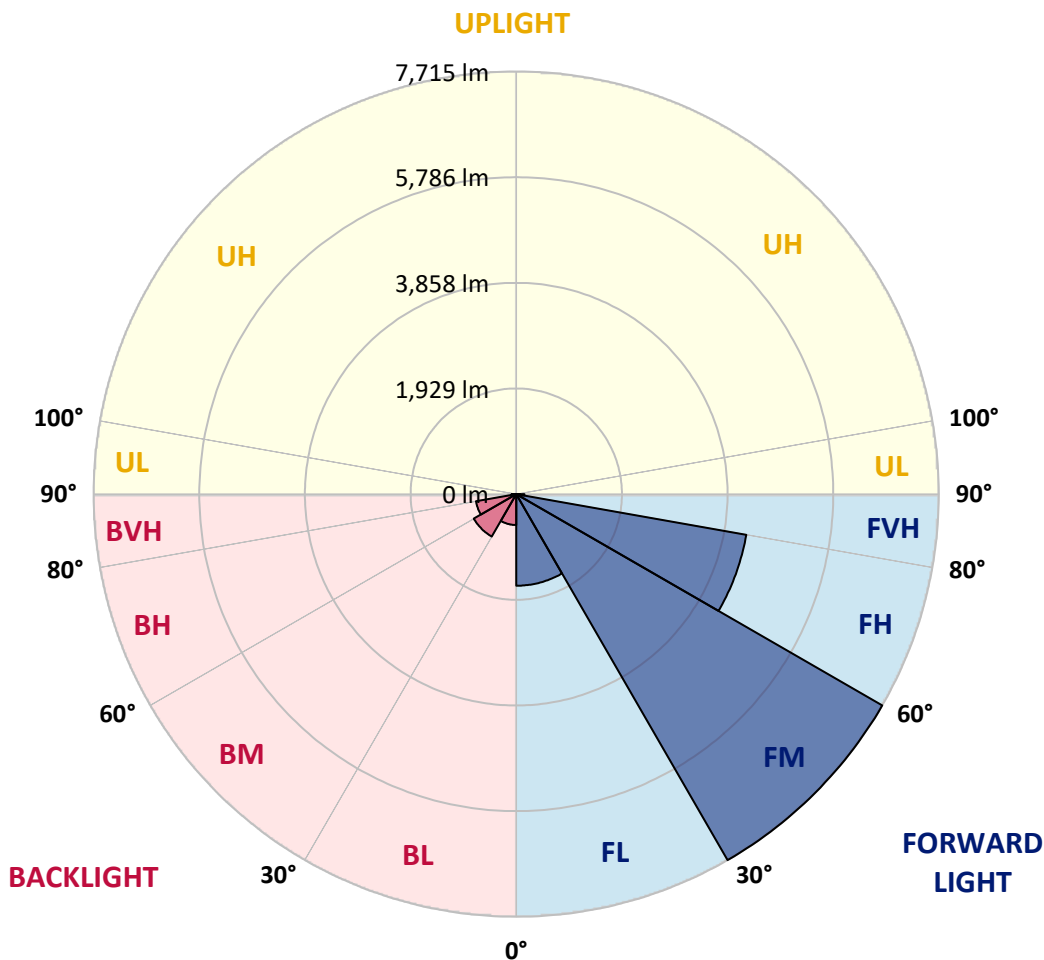
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1672.0	10.4			
FM (30°-60°)	7715.1	48.0			
FH (60°-80°)	4264.7	26.5			G2/5000
FVH (80°-90°)	147.1	0.9			G2/225
BL (0°-30°)	563.6	3.5	B2/1000		
BM (30°-60°)	894.4	5.6	B1/1000		
BH (60°-80°)	746.9	4.6	B2/1000		G2/1000
BVH (80°-90°)	83.8	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1646.3	1646.3	1646.3	1646.3	1646.3	1646.3	1646.3	1646.3	1646.3	1646.3	1646.3
2.5°	2284.3	2256.8	2229.3	2170.6	2150.5	2095.5	1994.6	1882.8	1791.1	1778.3	1714.2
5°	2834.3	2794.0	2784.8	2751.8	2647.3	2541.0	2376.0	2196.3	1972.6	1989.1	1769.1
7.5°	3246.8	3223.0	3173.5	3142.3	3080.0	2938.8	2768.3	2530.0	2245.8	2190.8	1892.0
10°	3558.5	3525.5	3523.6	3496.1	3463.1	3318.3	3188.1	2867.3	2502.5	2427.3	2042.3
12.5°	3716.1	3710.6	3807.8	3807.8	3795.0	3734.5	3510.8	3217.5	2746.3	2720.6	2216.5
15°	3886.6	3840.8	3925.1	3989.3	4022.3	4053.5	3868.3	3558.5	3058.0	3008.5	2403.5
17.5°	3886.6	3883.0	3967.3	4073.6	4246.0	4286.3	4185.5	3872.0	3316.5	3279.8	2608.8
20°	3820.6	3873.8	3932.5	4075.5	4262.5	4425.6	4455.0	4192.8	3602.5	3573.1	2841.6
22.5°	4128.6	4077.3	4137.8	4192.8	4337.6	4585.1	4665.8	4475.1	3903.1	3791.3	3052.5
25°	4645.6	4610.8	4566.8	4486.1	4546.6	4654.8	4777.6	4684.1	4159.8	4035.1	3256.0
27.5°	5149.8	5151.6	5056.3	4880.3	4750.1	4772.1	4917.0	4867.5	4376.1	4321.1	3395.3
30°	5866.6	5822.6	5716.3	5477.9	5223.1	5014.1	4990.3	5038.0	4651.1	4544.8	3595.1
32.5°	6403.8	6412.9	6262.6	5919.8	5571.4	5400.9	5192.0	5212.1	4825.3	4746.5	3754.6
35°	6838.3	6827.3	6720.9	6436.8	6024.3	5818.9	5536.6	5421.1	5230.5	5105.8	3998.5
37.5°	7307.6	7217.8	7045.4	6724.6	6460.6	6176.4	5901.4	5641.1	5499.9	5349.6	4207.5
40°	7496.4	7496.4	7265.4	7118.8	6805.3	6590.8	6412.9	5930.8	5828.1	5798.8	4475.1
42.5°	7362.6	7445.1	7349.8	7182.9	7054.6	6783.3	6735.6	6231.4	6233.3	6174.6	4796.0
45°	7349.8	7236.1	7157.3	7199.4	7138.9	7124.3	7245.3	6647.6	6658.6	6651.3	5226.8
47.5°	6981.3	6929.9	7047.3	7116.9	7166.4	7393.8	7742.1	7144.4	7223.3	7168.3	5723.6
50°	6614.6	6605.4	6678.8	6931.8	7146.3	7520.3	8215.1	7910.8	8169.3	8165.6	6623.8
52.5°	5609.9	5707.1	5994.9	6530.3	7060.1	7692.6	8572.6	8889.7	9382.9	9516.7	7369.9
55°	4649.3	4598.0	5023.3	5800.6	6684.3	7760.4	8972.2	9478.2	10204.2	10301.4	8136.3
57.5°	3617.1	3712.5	4048.0	4794.1	5906.9	7424.9	9265.6	10059.4	11131.9	11207.1	9025.4
60°	2698.6	2711.5	3080.0	3681.3	4873.0	6667.8	9360.9	10655.2	12195.2	12409.7	9956.7
62.5°	1697.7	1774.6	2055.1	2647.3	3668.5	5608.1	8933.7	11016.4	13309.9	13366.7	10895.4
65°	914.8	964.3	1175.2	1547.3	2563.0	4242.3	7800.8	10800.1	13834.2	14171.5	11313.4
67°	676.5	685.7	782.8	988.2	1714.2	3193.6	6504.6	10017.2	14072.5	14318.2	11329.9
67.5°	634.3	647.2	724.2	887.3	1519.8	2940.6	6165.4	9738.6	13966.2	14230.2	11201.6
70°	542.7	546.3	564.7	610.5	852.5	1769.1	4198.3	7980.4	12945.0	13198.0	10301.4
72.5°	482.2	485.8	493.2	502.3	577.5	1023.0	2553.8	6141.6	11251.1	11654.4	8887.9
75°	423.5	436.3	440.0	432.7	491.3	665.5	1358.5	4513.6	9177.6	9373.7	6911.6
77.5°	359.3	364.8	372.2	379.5	438.2	496.8	652.7	3047.0	6299.3	6180.1	3738.1
80°	302.5	304.3	309.8	315.3	379.5	379.5	370.3	1646.3	2751.8	2630.8	1263.2
82.5°	216.3	229.2	242.0	256.7	315.3	254.8	242.0	733.3	870.8	828.7	427.2
85°	84.3	102.7	159.5	176.0	199.8	137.5	161.3	317.2	363.0	359.3	159.5
87.5°	14.7	16.5	44.0	67.8	73.3	47.7	77.0	113.7	135.7	146.7	58.7
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°	1646.3	1646.3	1646.3	1646.3	1646.3	1646.3	1646.3	1646.3	1646.3	1646.3	1646.3
2.5°	1661.0	1604.2	1536.3	1468.5	1424.5	1354.8	1349.3	1307.2	1301.7	1287.0	1294.3
5°	1673.8	1606.0	1468.5	1360.3	1310.8	1270.5	1279.7	1261.3	1255.8	1246.7	1232.0
7.5°	1774.6	1640.8	1435.5	1342.0	1305.3	1287.0	1287.0	1265.0	1248.5	1259.5	1270.5
10°	1840.6	1657.3	1461.2	1367.7	1338.3	1298.0	1312.7	1285.2	1294.3	1272.3	1272.3
12.5°	1947.0	1750.8	1514.3	1406.2	1358.5	1321.8	1336.5	1305.3	1298.0	1299.8	1294.3
15°	2090.0	1813.1	1538.2	1428.2	1395.2	1349.3	1338.3	1310.8	1283.3	1274.2	1285.2
17.5°	2223.8	1890.1	1554.7	1441.0	1387.8	1336.5	1323.7	1288.8	1279.7	1252.2	1230.2
20°	2383.3	1981.8	1576.7	1452.0	1360.3	1309.0	1276.0	1241.2	1210.0	1193.5	1200.8
22.5°	2489.6	2029.5	1587.7	1430.0	1320.0	1272.3	1202.7	1178.8	1134.8	1116.5	1101.8
25°	2663.8	2088.1	1560.2	1369.5	1248.5	1171.5	1109.2	1076.2	1045.0	1021.2	1013.8
27.5°	2707.8	2132.1	1496.0	1266.8	1134.8	1054.2	1001.0	960.7	940.5	903.8	896.5
30°	2836.1	2088.1	1400.7	1142.2	1026.7	944.2	891.0	861.7	814.0	804.8	784.7
32.5°	2918.6	2101.0	1279.7	1021.2	902.0	828.7	793.8	764.5	751.7	707.7	696.7
35°	3056.1	2057.0	1156.8	909.3	799.3	742.5	713.2	704.0	661.8	641.7	623.3
37.5°	3144.1	2031.3	1034.0	782.8	687.5	663.7	672.8	634.3	583.0	544.5	531.7
40°	3298.1	2022.1	894.7	678.3	610.5	605.0	634.3	561.0	467.5	434.5	416.2
42.5°	3520.0	1959.8	786.5	584.8	550.0	573.8	579.3	467.5	414.3	386.8	374.0
45°	3732.6	1972.6	680.2	484.0	478.5	513.3	500.5	396.0	364.8	344.7	355.7
47.5°	4141.5	2036.8	575.7	403.3	430.8	463.8	388.7	353.8	324.5	309.8	311.7
50°	4774.0	2099.1	484.0	368.5	407.0	419.8	333.7	320.8	319.0	289.7	287.8
52.5°	5153.5	2075.3	467.5	412.5	436.3	419.8	363.0	353.8	339.2	326.3	311.7
55°	5756.6	2145.0	502.3	482.2	495.0	403.3	407.0	403.3	392.3	359.3	368.5
57.5°	6236.9	2190.8	548.2	539.0	531.7	419.8	425.3	427.2	419.8	405.2	418.0
60°	6896.9	2282.5	595.8	597.7	599.5	456.5	465.7	476.7	474.8	469.3	473.0
62.5°	7302.1	2240.3	649.0	678.3	669.2	531.7	529.8	537.2	537.2	546.3	551.8
65°	7241.6	2084.5	676.5	749.8	702.2	586.7	586.7	590.3	592.2	610.5	612.3
67°	6878.6	1805.8	661.8	760.8	702.2	608.7	608.7	612.3	599.5	647.2	632.5
67.5°	6709.9	1723.3	649.0	751.7	696.7	606.8	606.8	608.7	597.7	643.5	628.8
70°	5835.4	1279.7	559.2	665.5	645.3	590.3	590.3	579.3	570.2	630.7	617.8
72.5°	4981.1	929.5	449.2	566.5	583.0	568.3	572.0	544.5	518.8	561.0	550.0
75°	3815.1	683.8	350.2	436.3	493.2	531.7	555.5	485.8	452.8	463.8	443.7
77.5°	2128.5	445.5	276.8	322.7	375.8	495.0	533.5	438.2	370.3	357.5	357.5
80°	722.3	260.3	203.5	240.2	258.5	438.2	498.7	355.7	291.5	278.7	269.5
82.5°	273.2	159.5	139.3	165.0	165.0	346.5	407.0	273.2	220.0	284.2	289.7
85°	124.7	95.3	91.7	95.3	95.3	212.7	287.8	177.8	198.0	170.5	150.3
87.5°	49.5	45.8	42.2	40.3	33.0	36.7	99.0	47.7	89.8	23.8	22.0
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)