

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: P480642

Luminaire Tested: **IFLD-L-SA7E-827-U-SL3**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480642
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7E-827-U-SL3
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens
Light Source: (112) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

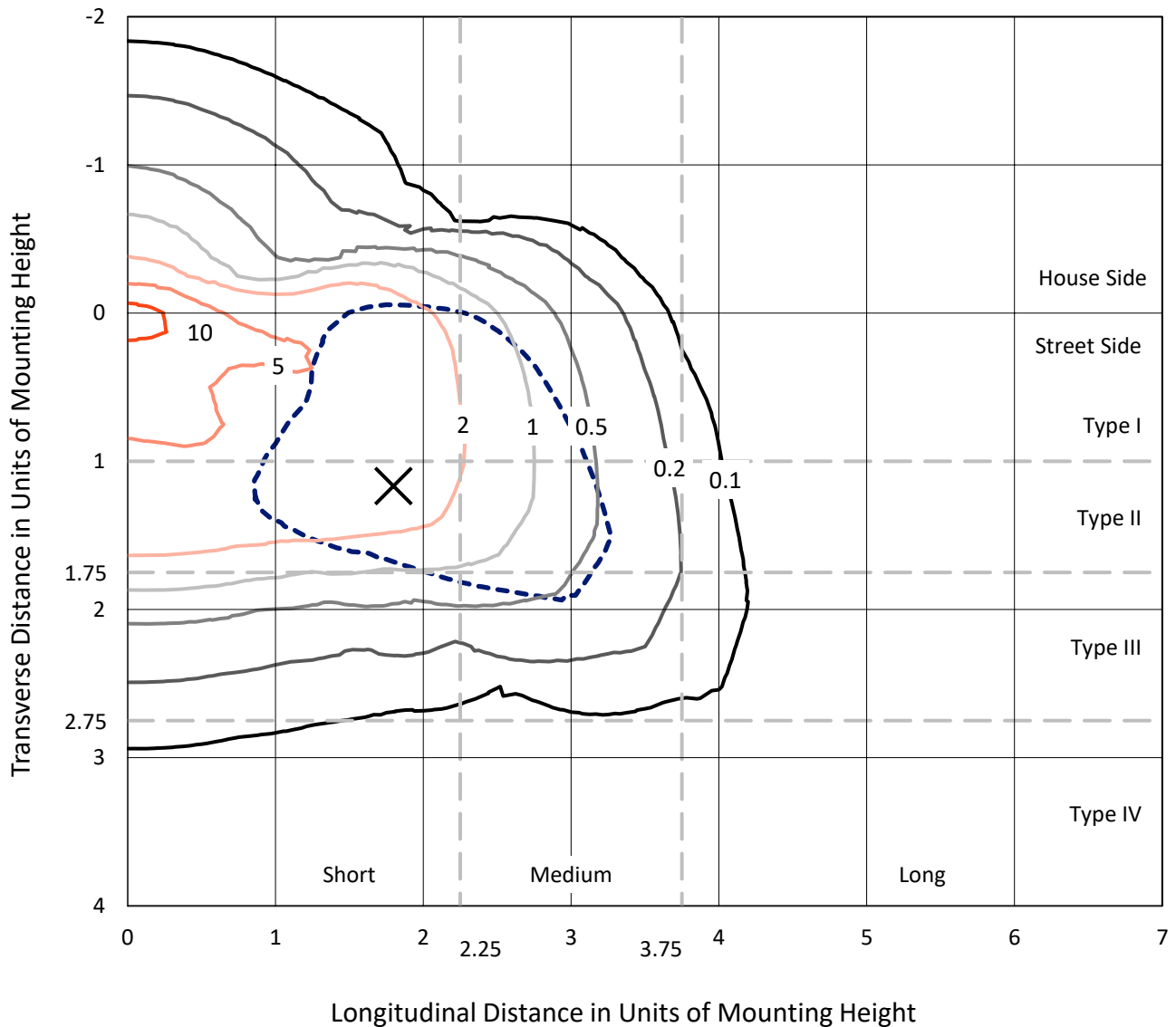
Lumens per Lamp: N/A
Luminaire Lumens: 40946.6 lumens
Efficiency: N/A
Efficacy: 76.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 532.7
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

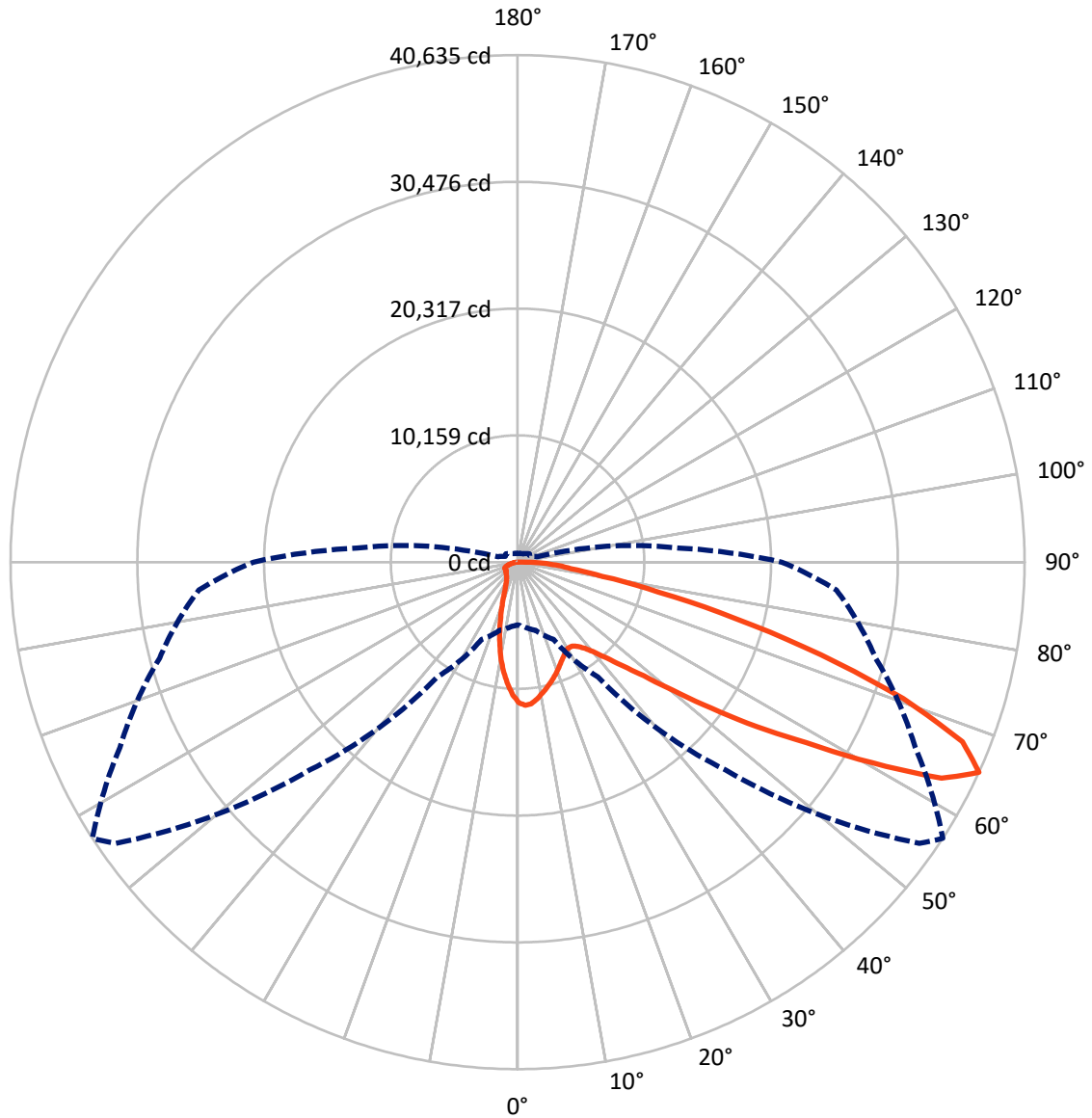
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 12.5 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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

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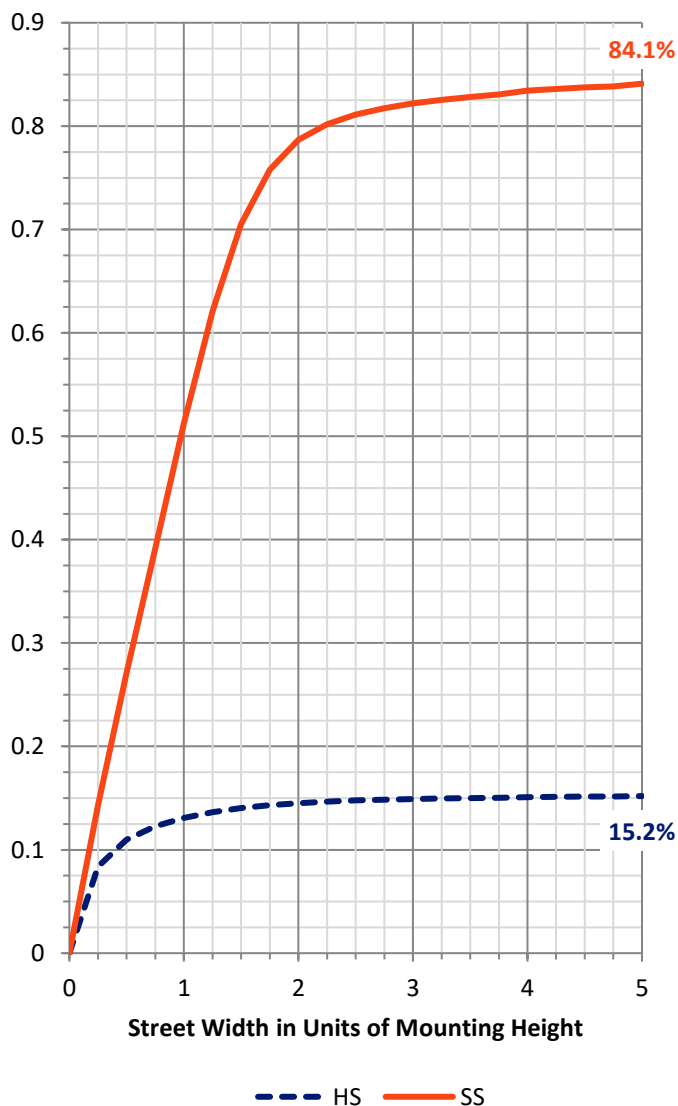
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6279.6	0.0	6279.6
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	34667.1	0.0	34667.1
	% Fixture	84.7	0.0	84.7
Total	Lumens	40946.6	0.0	40946.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	942.9	2.3
10°-20°	2029.3	5.0
20°-30°	2623.7	6.4
30°-40°	3530.7	8.6
40°-50°	5629.8	13.7
50°-60°	9943.6	24.3
60°-70°	10939.3	26.7
70°-80°	4576.1	11.2
80°-90°	731.3	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°	40946.6	100.0
0°-180°	40946.6	100.0

Coefficient of Utilization



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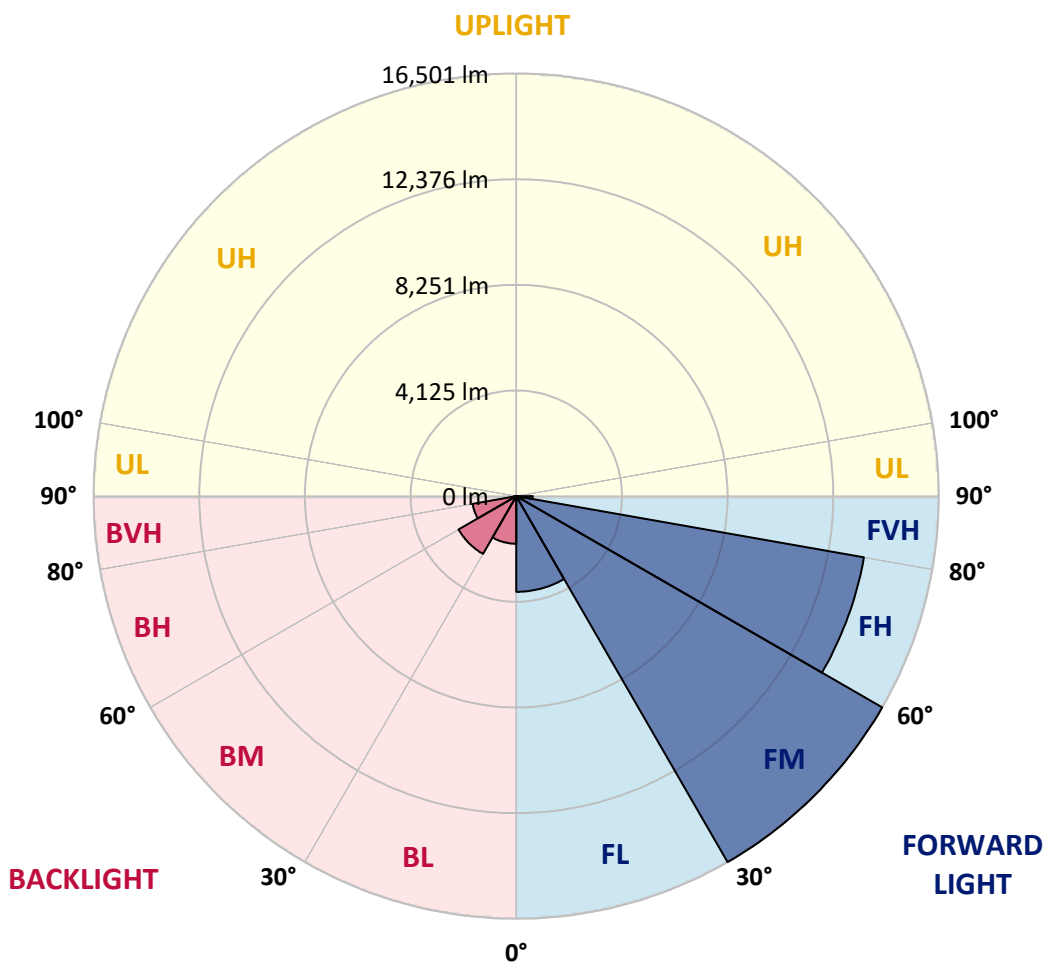
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3736.2	9.1			
FM (30°-60°)	16501.4	40.3			
FH (60°-80°)	13783.8	33.7			G5
FVH (80°-90°)	645.5	1.6			G4/750
BL (0°-30°)	1859.7	4.5	B3/2500		
BM (30°-60°)	2602.6	6.4	B3/5000		
BH (60°-80°)	1731.5	4.2	B3/2500		G3/2500
BVH (80°-90°)	85.8	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-G5

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	11259.7	11259.7	11259.7	11259.7	11259.7	11259.7	11259.7	11259.7	11259.7	11259.7	11259.7
2.5°	11563.8	11582.2	11582.2	11619.1	11494.7	11554.6	11545.4	11490.1	11508.5	11411.8	11315.0
5°	11236.7	11222.9	11296.6	11305.8	11402.6	11430.2	11453.2	11416.4	11425.6	11213.7	11121.5
7.5°	10398.2	10393.6	10518.0	10624.0	10826.7	11015.6	11140.0	11103.1	11153.8	11020.2	10803.6
10°	9403.1	9509.0	9638.0	9744.0	10117.2	10356.7	10679.2	10711.5	10905.0	10872.7	10481.1
12.5°	8656.7	8702.8	8799.5	9103.6	9444.5	9840.8	10301.5	10342.9	10531.8	10624.0	10283.0
15°	8044.0	8085.4	8209.8	8435.6	8818.0	9287.9	9873.0	9979.0	10356.7	10389.0	10025.0
17.5°	7597.1	7629.3	7712.3	7938.0	8251.3	8854.8	9407.7	9596.6	10094.1	10250.8	9757.8
20°	7422.0	7352.9	7399.0	7541.8	7855.1	8320.4	9034.5	9200.4	9836.1	10144.8	9504.4
22.5°	7343.7	7283.8	7311.5	7302.2	7551.0	7882.7	8633.7	8808.8	9592.0	10020.4	9278.7
25°	7403.6	7403.6	7376.0	7352.9	7380.6	7597.1	8200.6	8472.4	9264.9	9914.5	9048.3
27.5°	7726.1	7601.7	7615.5	7518.8	7491.1	7491.1	8007.1	8168.4	9158.9	9854.6	8859.4
30°	7933.4	7993.3	7997.9	7855.1	7712.3	7454.3	7827.5	7984.1	9071.4	9928.3	8748.9
32.5°	8463.2	8435.6	8357.3	8329.6	8117.7	7827.5	7915.0	8021.0	9020.7	10094.1	8781.1
35°	8993.0	8979.2	8983.8	8970.0	8748.9	8320.4	8149.9	8292.8	9112.8	10384.4	8891.7
37.5°	9541.3	9578.1	9734.8	9734.8	9499.8	9034.5	8808.8	8767.3	9449.1	10858.9	9154.3
40°	10089.5	10181.7	10379.8	10693.1	10361.4	9928.3	9564.3	9499.8	9854.6	11494.7	9785.5
42.5°	10614.7	10766.8	11158.4	11623.7	11513.1	11080.1	10596.3	10522.6	10688.5	12439.2	10665.4
45°	11287.4	11416.4	12033.7	12747.8	12899.9	12517.5	11950.8	11890.9	11881.7	13821.3	11877.1
47.5°	12310.2	12448.4	13065.7	13784.4	14254.3	14314.2	13678.5	13614.0	13392.8	15687.2	13650.8
50°	13590.9	13816.7	14337.3	15175.8	15857.6	16498.0	16318.3	16129.4	15696.4	17857.1	15899.1
52.5°	14526.2	14802.6	15507.5	16580.9	17783.4	18801.6	19446.5	19446.5	18451.4	20239.0	18603.4
55°	14775.0	14940.8	15830.0	17382.6	19441.9	22017.3	23367.2	23265.8	21731.7	22745.2	21750.1
57.5°	13784.4	14001.0	15079.0	16705.3	20312.7	25025.7	27260.2	27283.2	25316.0	25656.9	24855.3
60°	11057.0	11126.1	12397.7	14572.2	19474.2	27449.1	32576.8	32664.3	29393.3	28250.7	26435.5
62.5°	7643.2	7864.3	8822.6	10729.9	16134.0	27177.2	37704.5	38137.5	32659.7	29619.0	26684.3
65°	5030.9	5164.6	5675.9	6836.9	11232.1	23556.1	39298.5	40634.6	35156.7	29697.3	25643.1
67.5°	3648.8	3671.9	3823.9	4422.8	6749.4	16940.3	36575.7	38460.0	36092.0	29043.1	23201.3
70°	2948.5	2967.0	3022.3	3404.6	4358.3	10600.9	29830.9	32784.1	33286.3	25942.5	18686.4
72.5°	2395.7	2418.7	2487.8	2847.2	3593.5	5897.1	21814.6	25412.7	27075.9	19193.2	12420.7
75°	1884.3	1902.7	2068.6	2423.3	3377.0	4049.6	14470.9	17995.3	18221.1	11218.3	5814.2
77.5°	1290.0	1322.2	1524.9	2054.8	3178.9	3542.9	9020.7	11526.9	10342.9	4390.6	1999.5
80°	820.1	866.1	985.9	1557.2	2810.3	3381.6	5611.4	6883.0	4528.8	1501.9	962.9
82.5°	483.7	529.8	649.6	1009.0	2206.8	3137.4	3952.9	4307.6	2123.9	769.4	580.5
85°	267.2	299.5	391.6	608.1	1294.6	2787.3	3165.1	3091.4	1216.3	410.0	364.0
87.5°	87.5	101.4	142.8	244.2	534.4	1313.0	1898.1	1782.9	631.2	188.9	142.8
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°	11259.7	11259.7	11259.7	11259.7	11259.7	11259.7	11259.7	11259.7	11259.7	11259.7	11259.7
2.5°	11250.5	11236.7	11029.4	10872.7	10605.5	10384.4	10296.9	10177.1	10172.5	10084.9	10061.9
5°	10978.7	10835.9	10518.0	10213.9	9739.4	9421.5	9131.3	8928.5	8845.6	8665.9	8624.5
7.5°	10628.6	10439.7	9951.3	9380.0	8822.6	8325.0	7873.5	7422.0	7168.6	7081.1	6984.4
10°	10264.6	9932.9	9209.6	8569.2	7790.6	7025.8	6316.3	5680.5	5335.0	5090.8	4984.9
12.5°	9974.4	9532.1	8610.7	7652.4	6625.0	5602.2	4777.6	4109.5	3717.9	3533.6	3450.7
15°	9647.3	9062.2	7956.5	6744.8	5464.0	4303.0	3496.8	2971.6	2814.9	2727.4	2713.6
17.5°	9301.7	8624.5	7247.0	5851.0	4330.7	3238.8	2718.2	2506.3	2437.2	2400.3	2381.9
20°	8979.2	8232.9	6519.0	4855.9	3390.8	2598.4	2354.2	2243.7	2239.0	2257.5	2252.9
22.5°	8523.1	7721.5	5800.3	3934.5	2709.0	2262.1	2105.4	2077.8	2105.4	2128.5	2137.7
25°	8265.1	7302.2	4998.7	3123.6	2239.0	2008.7	1958.0	1948.8	1990.3	2017.9	2013.3
27.5°	7997.9	6869.2	4252.3	2501.7	1962.6	1829.0	1819.8	1829.0	1870.5	1911.9	1907.3
30°	7790.6	6523.6	3552.1	2091.6	1750.7	1700.0	1690.8	1700.0	1723.1	1727.7	1727.7
32.5°	7620.1	6113.6	2957.8	1815.2	1621.7	1580.2	1589.4	1584.8	1589.4	1594.1	1598.7
35°	7518.8	5869.4	2469.4	1644.7	1515.7	1483.5	1478.9	1465.1	1469.7	1474.3	1469.7
37.5°	7735.3	5749.7	2082.4	1524.9	1442.0	1414.4	1405.2	1395.9	1382.1	1382.1	1382.1
40°	8062.4	5685.2	1847.4	1446.6	1386.7	1354.5	1326.8	1317.6	1317.6	1322.2	1326.8
42.5°	8712.0	5791.1	1686.2	1386.7	1317.6	1280.8	1253.1	1257.7	1271.6	1285.4	1276.2
45°	9651.9	6113.6	1612.5	1340.7	1276.2	1225.5	1207.1	1202.5	1216.3	1239.3	1257.7
47.5°	10882.0	6615.8	1584.8	1299.2	1248.5	1179.4	1156.4	1170.2	1188.6	1220.9	1207.1
50°	12895.3	7744.5	1607.9	1262.3	1207.1	1156.4	1128.7	1114.9	1128.7	1151.8	1161.0
52.5°	15525.9	9794.7	1695.4	1243.9	1179.4	1138.0	1091.9	1068.8	1082.7	1101.1	1101.1
55°	18672.6	12595.8	1939.6	1220.9	1133.3	1110.3	1059.6	1013.6	1022.8	1022.8	1018.2
57.5°	21446.0	14710.5	2229.8	1188.6	1105.7	1073.5	1009.0	953.7	944.5	949.1	953.7
60°	22689.9	15272.5	2368.0	1179.4	1105.7	1027.4	939.8	884.6	870.7	861.5	861.5
62.5°	22473.4	14300.4	2087.0	1138.0	1133.3	990.5	875.3	815.5	797.0	778.6	783.2
65°	21165.0	12913.7	1644.7	1082.7	1138.0	967.5	810.8	751.0	718.7	695.7	691.1
67.5°	18773.9	11024.8	1303.8	1041.2	1091.9	926.0	755.6	686.5	658.8	635.8	626.6
70°	14687.4	8642.9	1133.3	985.9	981.3	824.7	691.1	631.2	589.7	562.1	562.1
72.5°	9522.9	5464.0	972.1	875.3	847.7	691.1	598.9	562.1	529.8	506.8	506.8
75°	4312.2	2538.5	783.2	732.5	691.1	552.9	506.8	488.4	460.7	437.7	437.7
77.5°	1548.0	1082.7	585.1	575.9	516.0	428.5	410.0	396.2	377.8	354.7	354.7
80°	866.1	686.5	437.7	419.2	359.4	317.9	294.9	294.9	285.6	271.8	267.2
82.5°	548.2	446.9	322.5	281.0	235.0	211.9	202.7	198.1	193.5	175.1	170.5
85°	345.5	304.1	211.9	165.9	138.2	106.0	101.4	96.7	87.5	78.3	78.3
87.5°	156.6	175.1	82.9	50.7	36.9	23.0	13.8	4.6	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)