

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: P479165

Luminaire Tested: **IFLD-S-SA2A-722-U-5MQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P479165
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2A-722-U-5MQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5MQ distribution lens
Light Source: (32) 2200K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

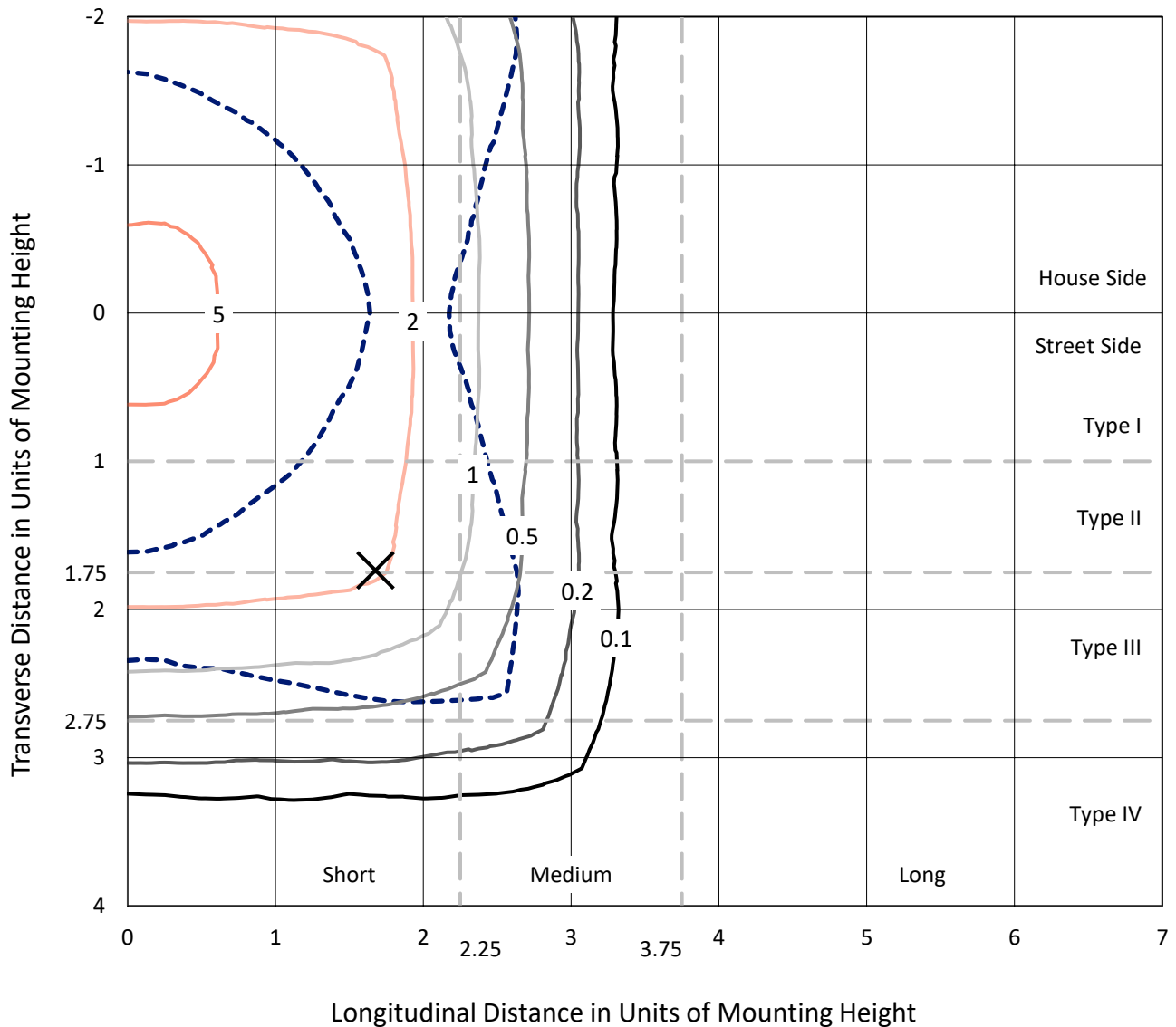
Lumens per Lamp: N/A
Luminaire Lumens: 6864.4 lumens
Efficiency: N/A
Efficacy: 107.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G1

Input Watts (W): 63.8
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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Iso-Footcandle Lines of Horizontal Illumination

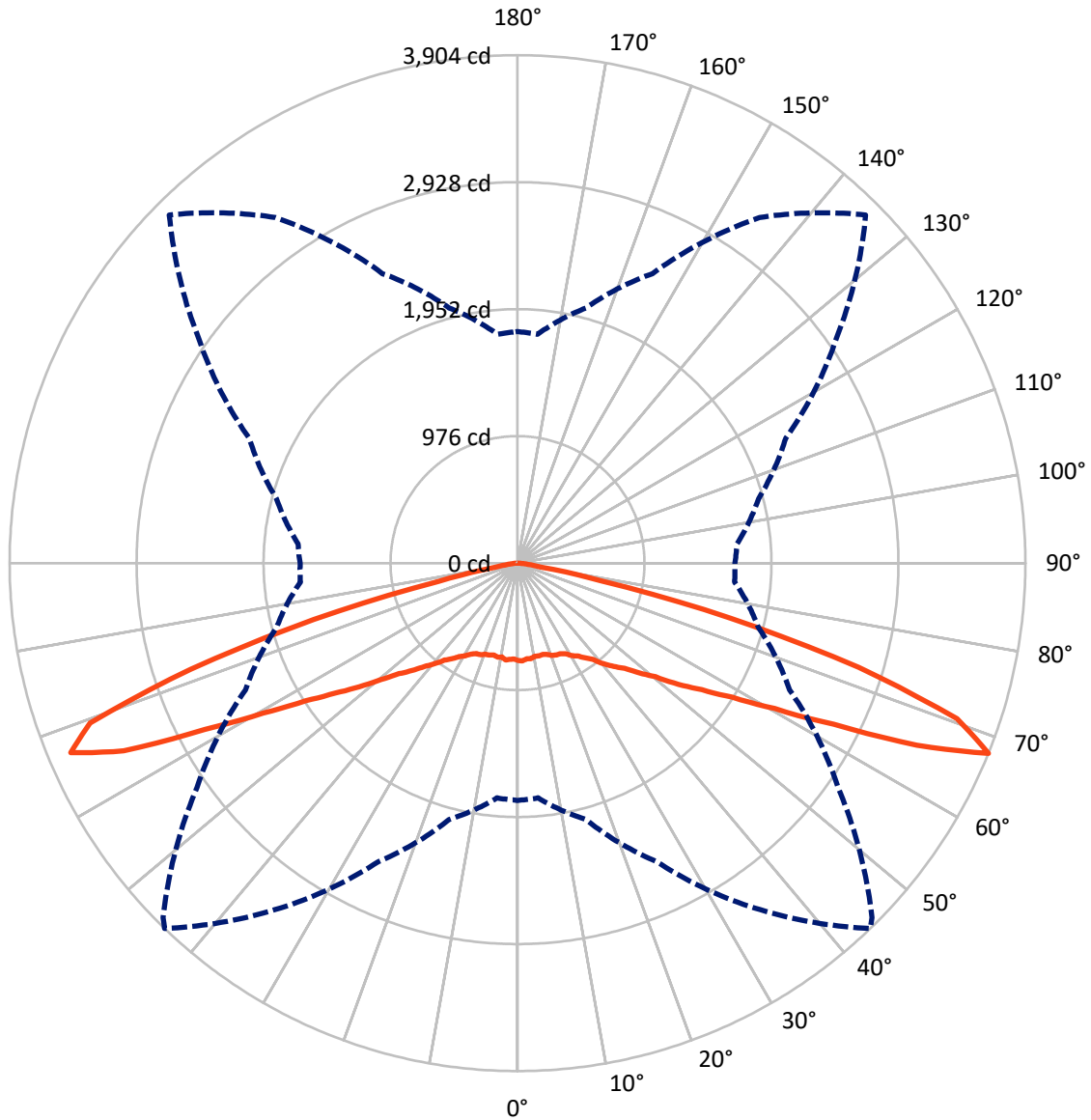
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 7.5 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 44-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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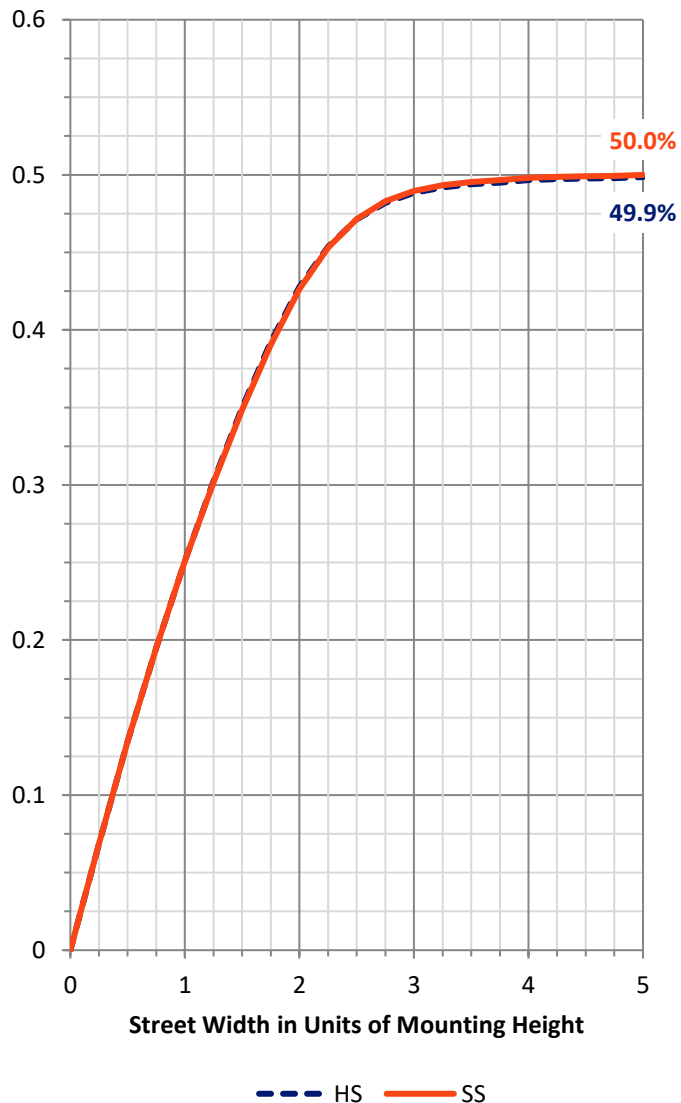
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3423.4	0.0	3423.4
	% Fixture	49.9	0.0	49.9
Street Side	Lumens	3441.0	0.0	3441.0
	% Fixture	50.1	0.0	50.1
Total	Lumens	6864.4	0.0	6864.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.0	1.0
10°-20°	207.3	3.0
20°-30°	352.5	5.1
30°-40°	558.9	8.1
40°-50°	911.4	13.3
50°-60°	1556.5	22.7
60°-70°	2367.4	34.5
70°-80°	798.0	11.6
80°-90°	41.4	0.6
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°	6864.4	100.0
0°-180°	6864.4	100.0

Coefficient of Utilization



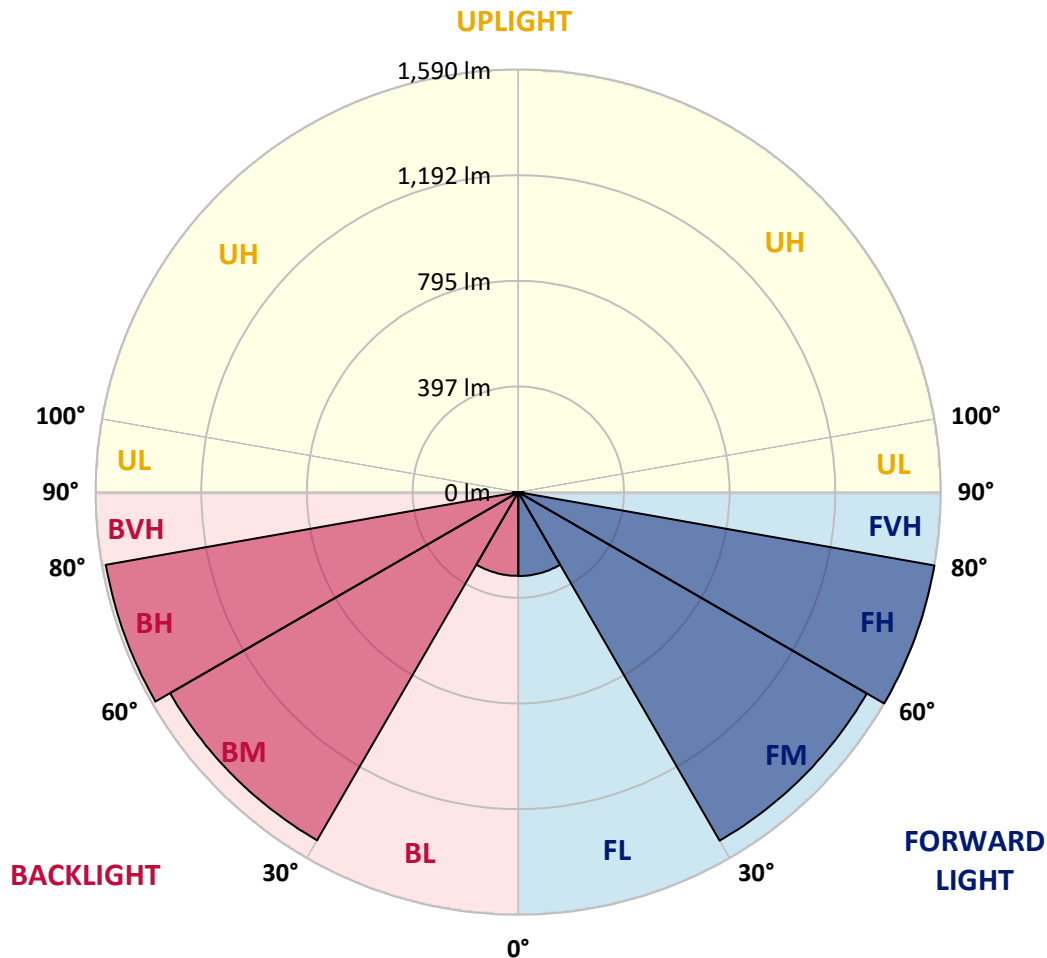
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	315.7	4.6			
FM (30°-60°)	1514.2	22.1			
FH (60°-80°)	1589.9	23.2			G1/1800
FVH (80°-90°)	21.2	0.3			G1/100
BL (0°-30°)	315.1	4.6	B1/500		
BM (30°-60°)	1512.6	22.0	B2/2500		
BH (60°-80°)	1575.5	23.0	B3/2500		G1/1800
BVH (80°-90°)	20.2	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	749.8	749.8	749.8	749.8	749.8	749.8	749.8	749.8	749.8	749.8	749.8
2.5°	732.6	741.2	747.5	746.7	749.0	751.4	748.3	753.0	749.8	755.3	758.4
5°	746.7	744.3	745.1	740.4	751.4	738.9	738.9	745.1	753.0	743.6	749.0
7.5°	738.1	736.5	732.6	739.6	742.0	742.0	748.3	736.5	749.8	753.0	753.7
10°	728.7	720.0	731.8	738.9	740.4	727.9	733.4	736.5	732.6	736.5	738.9
12.5°	720.8	725.5	725.5	725.5	723.2	731.8	737.3	736.5	728.7	735.7	723.2
15°	720.0	717.7	724.7	731.0	727.1	728.7	731.0	738.1	723.2	726.3	726.3
17.5°	719.3	722.4	724.7	724.0	737.3	737.3	734.9	730.2	742.0	735.7	727.1
20°	722.4	720.0	726.3	728.7	738.1	756.9	749.8	745.9	739.6	731.8	731.8
22.5°	726.3	724.7	733.4	743.6	761.6	766.3	765.5	760.8	749.8	740.4	738.9
25°	740.4	726.3	735.7	755.3	761.6	771.0	777.2	771.0	756.1	758.4	744.3
27.5°	761.6	759.2	771.8	785.1	779.6	788.2	782.7	787.4	788.2	776.5	762.4
30°	786.6	779.6	787.4	813.3	815.6	825.0	815.6	803.1	807.0	796.8	789.8
32.5°	822.7	820.3	835.2	852.5	855.6	850.9	846.2	853.2	836.8	829.0	816.4
35°	846.2	856.4	874.4	887.7	897.9	893.2	895.6	888.5	892.4	876.0	870.5
37.5°	915.9	912.0	915.9	938.6	941.0	938.6	941.0	948.8	943.3	929.2	915.1
40°	981.7	975.5	984.9	1010.7	1009.2	1017.0	1001.3	1009.9	1009.9	983.3	977.8
42.5°	1031.1	1052.3	1063.2	1084.4	1092.2	1085.2	1082.0	1083.6	1100.8	1069.5	1057.7
45°	1133.0	1132.2	1165.1	1176.8	1154.9	1153.3	1147.1	1165.9	1177.6	1159.6	1154.9
47.5°	1243.4	1248.9	1267.7	1272.4	1285.7	1261.5	1261.5	1263.8	1305.3	1263.0	1241.1
50°	1342.9	1350.0	1387.6	1424.4	1399.4	1373.5	1383.7	1396.2	1418.9	1379.0	1360.2
52.5°	1463.6	1502.0	1527.1	1546.7	1564.7	1546.7	1523.1	1537.3	1581.9	1528.6	1505.1
55°	1637.5	1668.1	1691.6	1727.6	1742.5	1718.2	1715.9	1714.3	1739.4	1683.0	1650.9
57.5°	1831.9	1819.3	1856.9	1912.6	1966.6	1943.1	1936.1	1937.6	1943.9	1864.0	1839.7
60°	2073.2	2087.3	2131.9	2180.5	2237.7	2270.6	2224.4	2197.8	2203.2	2094.3	2056.7
62.5°	2211.1	2242.4	2343.5	2510.4	2625.5	2728.2	2735.2	2562.1	2446.1	2234.6	2074.7
65°	2144.5	2139.8	2330.2	2638.9	3075.3	3373.8	3329.1	2909.2	2504.1	2168.0	1953.3
67.5°	1824.0	1811.5	2041.8	2531.5	3252.4	3904.2	3853.3	3007.1	2308.2	1918.0	1675.1
70°	1175.3	1172.1	1422.1	1929.8	2903.7	3584.6	3603.4	2731.3	1878.9	1404.8	1164.3
72.5°	427.0	452.9	597.8	1037.4	1972.1	2742.3	2754.0	2022.2	1080.5	649.5	478.7
75°	157.5	162.2	188.8	336.9	898.7	1683.8	1727.6	981.0	383.9	211.5	172.4
77.5°	90.9	91.7	101.1	125.4	266.4	657.4	684.0	297.7	148.9	112.8	104.2
80°	61.9	61.1	71.3	81.5	106.6	186.5	198.2	124.6	94.0	78.4	65.8
82.5°	36.0	38.4	52.5	58.0	65.0	82.3	83.8	77.6	70.5	58.0	43.1
85°	21.9	18.0	29.0	32.1	37.6	36.8	36.8	42.3	45.4	40.7	24.3
87.5°	5.5	5.5	7.1	7.8	10.2	7.8	8.6	16.5	21.9	20.4	12.5
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°	749.8	749.8	749.8	749.8	749.8	749.8	749.8	749.8	749.8	749.8	749.8
2.5°	751.4	749.0	750.6	759.2	753.7	737.3	741.2	749.8	742.8	738.9	738.1
5°	748.3	753.0	747.5	749.0	754.5	741.2	743.6	754.5	749.8	751.4	742.8
7.5°	749.0	751.4	746.7	739.6	739.6	750.6	744.3	745.9	738.9	750.6	734.9
10°	744.3	738.1	732.6	736.5	734.9	731.8	729.4	734.2	727.1	737.3	726.3
12.5°	730.2	731.8	730.2	728.7	731.8	739.6	727.1	728.7	717.7	719.3	724.7
15°	724.7	729.4	727.9	736.5	740.4	728.7	738.1	728.7	720.0	715.3	724.0
17.5°	727.1	734.2	731.8	738.1	731.0	739.6	741.2	737.3	727.1	723.2	727.1
20°	729.4	727.1	730.2	741.2	751.4	742.8	742.8	740.4	731.0	725.5	725.5
22.5°	734.9	731.0	735.7	744.3	747.5	760.8	749.0	743.6	727.9	713.8	727.1
25°	745.9	748.3	751.4	748.3	765.5	763.9	762.4	758.4	734.2	734.9	732.6
27.5°	767.1	753.7	757.7	776.5	778.8	785.1	777.2	784.3	758.4	759.2	743.6
30°	792.9	778.8	791.3	807.8	807.0	818.8	814.9	816.4	798.4	788.2	767.1
32.5°	821.1	819.6	827.4	837.6	841.5	847.8	847.0	847.0	836.0	809.4	813.3
35°	852.5	863.4	872.8	883.8	885.4	893.2	882.2	883.8	872.8	853.2	859.5
37.5°	914.4	913.6	923.8	937.1	938.6	932.4	941.0	937.1	922.2	908.9	898.7
40°	986.4	970.8	980.2	1011.5	1013.9	1002.9	1002.1	1001.3	990.4	961.4	955.1
42.5°	1049.1	1069.5	1067.9	1078.1	1071.1	1065.6	1085.2	1074.2	1065.6	1035.0	1029.5
45°	1129.8	1136.1	1156.5	1189.4	1155.7	1155.7	1169.0	1160.4	1155.7	1133.0	1111.8
47.5°	1230.1	1235.6	1276.3	1278.7	1256.8	1241.9	1283.4	1285.0	1265.4	1248.1	1222.3
50°	1347.6	1350.0	1386.8	1424.4	1400.1	1371.9	1414.2	1430.7	1386.8	1363.3	1331.2
52.5°	1476.9	1469.9	1500.4	1570.9	1547.4	1538.8	1584.3	1588.2	1528.6	1491.8	1500.4
55°	1625.8	1616.4	1699.4	1747.2	1732.3	1716.7	1737.0	1746.4	1698.7	1638.3	1659.5
57.5°	1818.5	1823.2	1864.8	1911.8	1936.1	1940.0	1949.4	1940.0	1891.4	1830.3	1810.7
60°	2011.3	2025.4	2106.1	2194.6	2202.5	2271.4	2258.9	2211.9	2142.9	2055.9	2059.9
62.5°	2082.6	2070.8	2200.9	2417.1	2601.3	2727.4	2671.8	2504.9	2345.1	2186.8	2198.5
65°	1939.2	1968.2	2145.3	2483.7	2883.3	3382.4	3086.3	2624.8	2302.0	2097.5	2074.7
67.5°	1671.2	1693.2	1918.0	2275.3	2984.4	3785.1	3243.0	2455.5	2030.1	1765.3	1779.4
70°	1164.3	1175.3	1395.4	1864.0	2706.3	3572.0	2925.6	1885.9	1401.7	1117.3	1133.0
72.5°	468.5	495.2	640.1	1122.8	1998.0	2714.1	1969.7	989.6	581.4	432.5	392.5
75°	173.2	173.9	204.5	386.3	948.8	1705.7	888.5	318.1	185.7	152.0	144.9
77.5°	100.3	99.5	106.6	139.5	275.0	666.0	252.3	124.6	101.1	90.9	87.0
80°	62.7	61.9	72.9	92.5	120.7	182.6	106.6	77.6	68.2	58.8	58.8
82.5°	40.0	40.7	57.2	68.2	73.7	80.7	61.9	54.8	50.9	33.7	32.9
85°	25.9	23.5	40.0	45.4	40.7	36.0	34.5	29.0	26.6	16.5	18.0
87.5°	11.8	12.5	20.4	22.7	14.9	8.6	8.6	6.3	6.3	3.9	3.9
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)