

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: P479477

Luminaire Tested: **IFLD-S-SA2A-830-U-5MQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P479477
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2A-830-U-5MQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5MQ distribution lens
Light Source: (32) 3000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

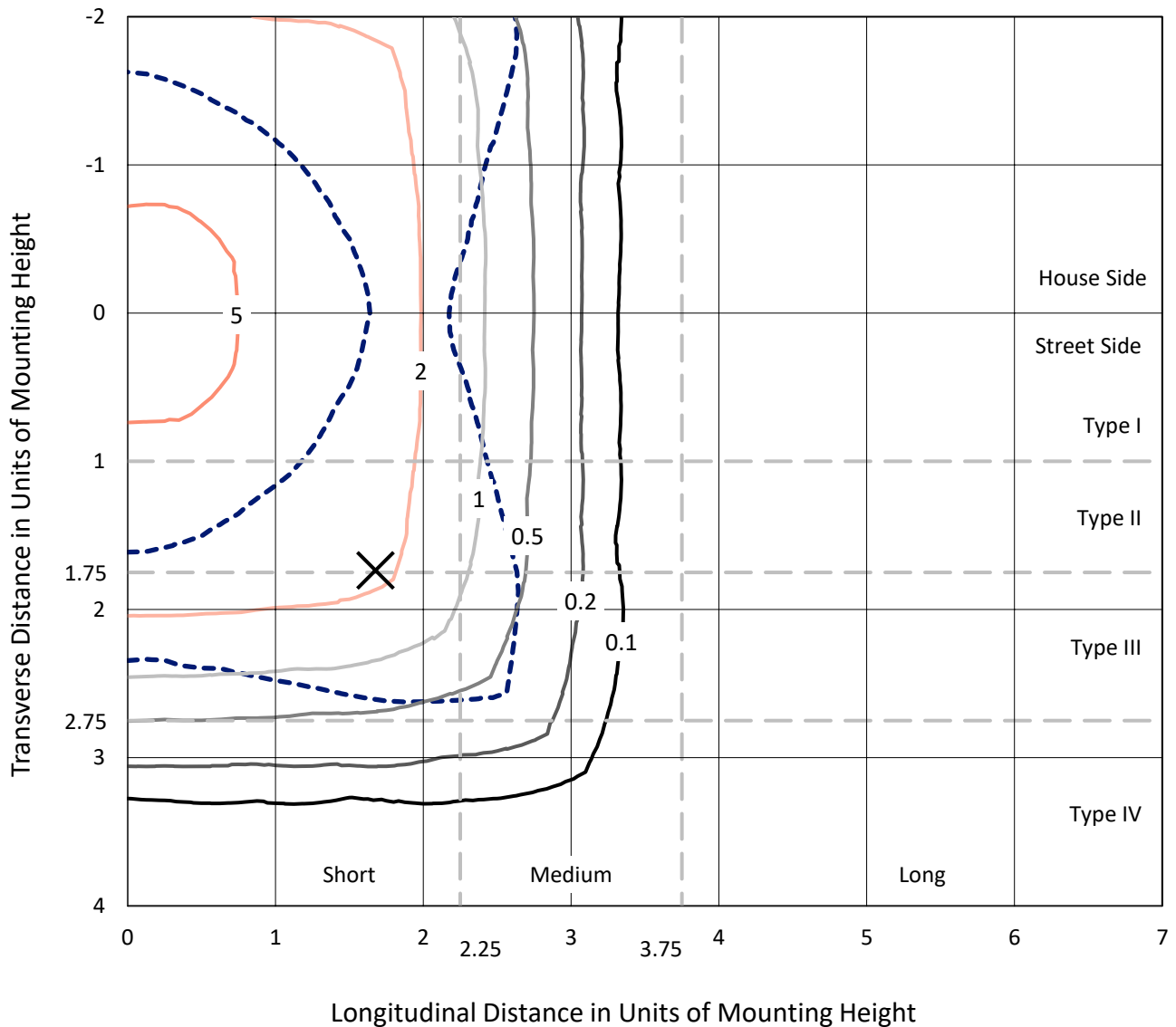
Lumens per Lamp: N/A
Luminaire Lumens: 7404.9 lumens
Efficiency: N/A
Efficacy: 116.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G1

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

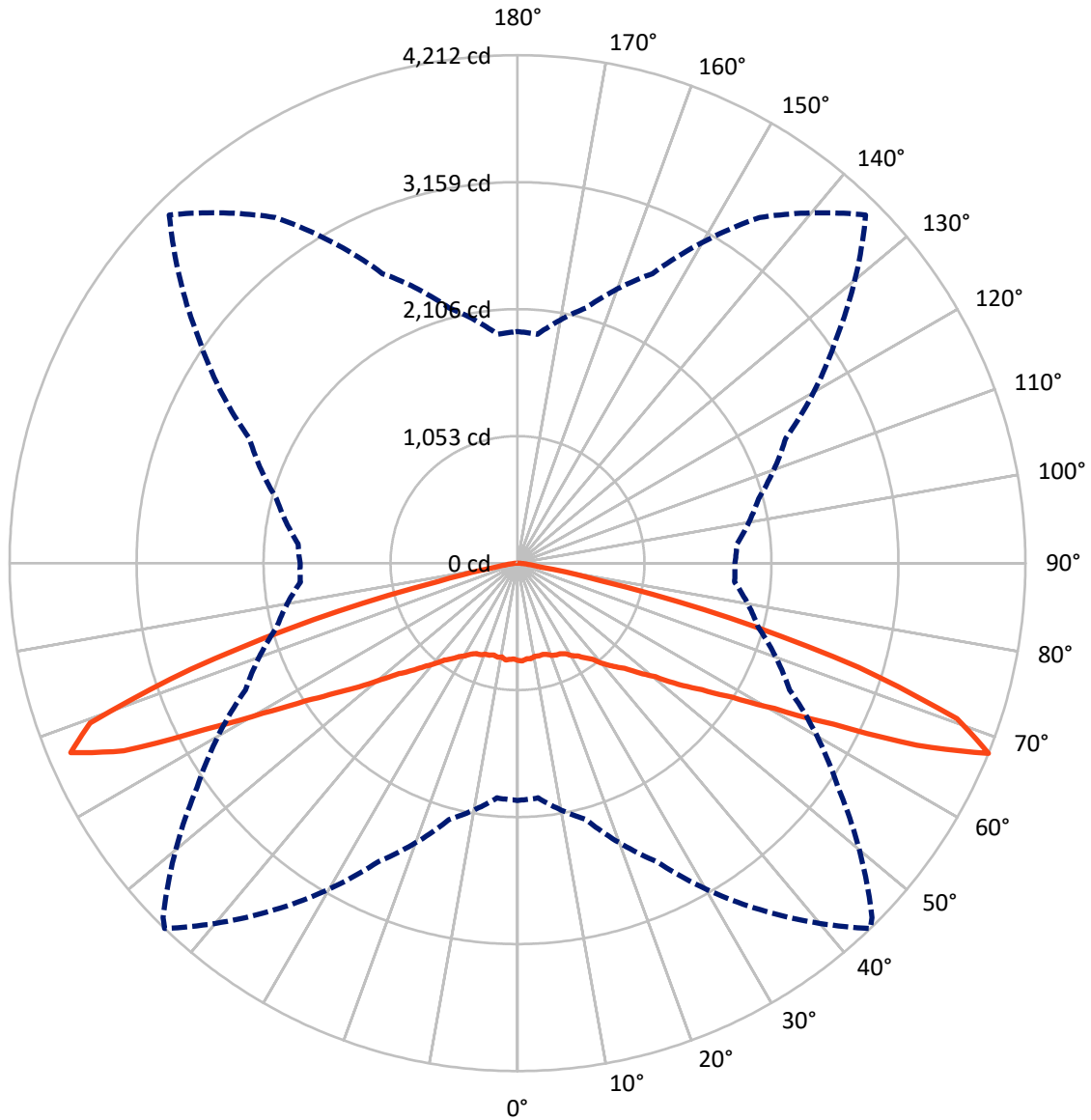
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 8.1 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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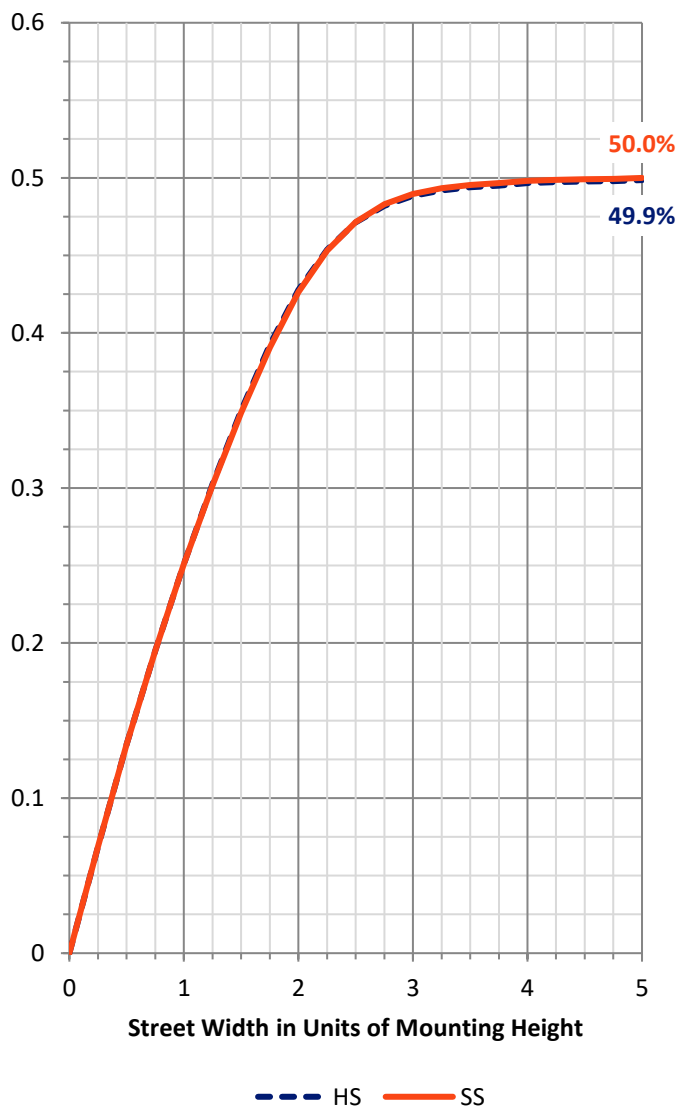
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3693.0	0.0	3693.0
	% Fixture	49.9	0.0	49.9
Street Side	Lumens	3711.9	0.0	3711.9
	% Fixture	50.1	0.0	50.1
Total	Lumens	7404.9	0.0	7404.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.5	1.0
10°-20°	223.6	3.0
20°-30°	380.3	5.1
30°-40°	602.9	8.1
40°-50°	983.1	13.3
50°-60°	1679.1	22.7
60°-70°	2553.9	34.5
70°-80°	860.8	11.6
80°-90°	44.7	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°	7404.9	100.0
0°-180°	7404.9	100.0

Coefficient of Utilization



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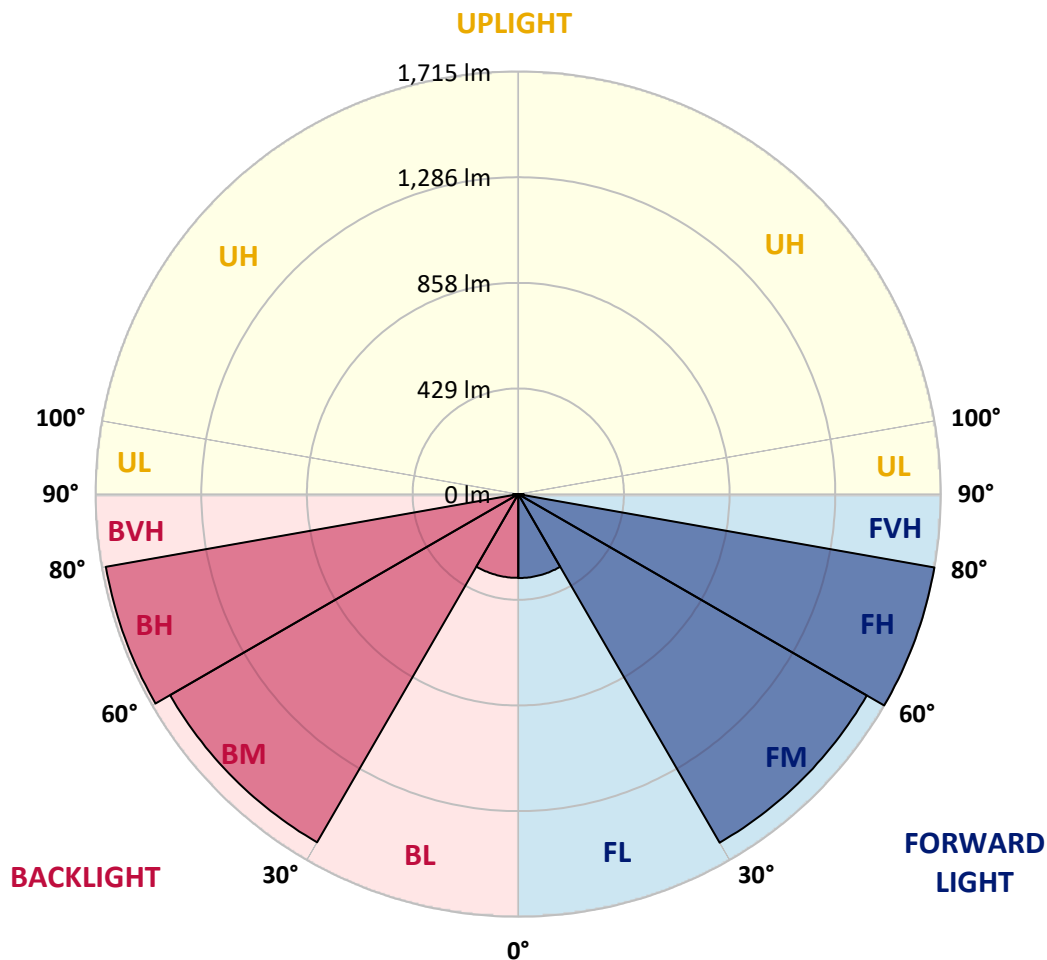
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	340.6	4.6			
FM (30°-60°)	1633.5	22.1			
FH (60°-80°)	1715.1	23.2			G1/1800
FVH (80°-90°)	22.9	0.3			G1/100
BL (0°-30°)	339.9	4.6	B1/500		
BM (30°-60°)	1631.7	22.0	B2/2500		
BH (60°-80°)	1699.6	23.0	B3/2500		G1/1800
BVH (80°-90°)	21.8	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°	808.9	808.9	808.9	808.9	808.9	808.9	808.9	808.9	808.9	808.9	808.9
2.5°	790.3	799.6	806.3	805.5	808.0	810.6	807.2	812.2	808.9	814.8	818.2
5°	805.5	802.9	803.8	798.7	810.6	797.0	797.0	803.8	812.2	802.1	808.0
7.5°	796.2	794.5	790.3	797.9	800.4	800.4	807.2	794.5	808.9	812.2	813.1
10°	786.0	776.7	789.4	797.0	798.7	785.2	791.1	794.5	790.3	794.5	797.0
12.5°	777.6	782.7	782.7	782.7	780.1	789.4	795.3	794.5	786.0	793.6	780.1
15°	776.7	774.2	781.8	788.6	784.4	786.0	788.6	796.2	780.1	783.5	783.5
17.5°	775.9	779.3	781.8	781.0	795.3	795.3	792.8	787.7	800.4	793.6	784.4
20°	779.3	776.7	783.5	786.0	796.2	816.5	808.9	804.6	797.9	789.4	789.4
22.5°	783.5	781.8	791.1	802.1	821.5	826.6	825.8	820.7	808.9	798.7	797.0
25°	798.7	783.5	793.6	814.8	821.5	831.7	838.4	831.7	815.6	818.2	802.9
27.5°	821.5	819.0	832.5	846.9	841.0	850.3	844.4	849.4	850.3	837.6	822.4
30°	848.6	841.0	849.4	877.3	879.9	890.0	879.9	866.3	870.6	859.6	852.0
32.5°	887.5	884.9	901.0	919.6	923.0	917.9	912.8	920.4	902.7	894.2	880.7
35°	912.8	923.8	943.3	957.6	968.6	963.5	966.1	958.5	962.7	944.9	939.0
37.5°	988.0	983.8	988.0	1012.6	1015.1	1012.6	1015.1	1023.5	1017.6	1002.4	987.2
40°	1059.0	1052.3	1062.4	1090.3	1088.6	1097.1	1080.2	1089.5	1089.5	1060.7	1054.8
42.5°	1112.3	1135.1	1146.9	1169.8	1178.2	1170.6	1167.2	1168.9	1187.5	1153.7	1141.0
45°	1222.2	1221.3	1256.8	1269.5	1245.8	1244.1	1237.4	1257.7	1270.3	1250.9	1245.8
47.5°	1341.3	1347.3	1367.5	1372.6	1387.0	1360.8	1360.8	1363.3	1408.1	1362.5	1338.8
50°	1448.7	1456.3	1496.9	1536.6	1509.5	1481.6	1492.6	1506.2	1530.7	1487.6	1467.3
52.5°	1578.8	1620.3	1647.3	1668.4	1687.9	1668.4	1643.1	1658.3	1706.5	1649.0	1623.6
55°	1766.5	1799.4	1824.8	1863.7	1879.7	1853.5	1851.0	1849.3	1876.4	1815.5	1780.8
57.5°	1976.1	1962.6	2003.1	2063.1	2121.5	2096.1	2088.5	2090.2	2097.0	2010.7	1984.5
60°	2236.4	2251.6	2299.8	2352.2	2413.9	2449.4	2399.5	2370.8	2376.7	2259.2	2218.7
62.5°	2385.2	2419.0	2528.0	2708.0	2832.3	2943.0	2950.6	2763.8	2638.7	2410.5	2238.1
65°	2313.3	2308.3	2513.6	2846.7	3317.4	3639.5	3591.3	3138.3	2701.3	2338.7	2107.1
67.5°	1967.6	1954.1	2202.6	2730.9	3508.5	4211.7	4156.7	3243.9	2490.0	2069.1	1807.1
70°	1267.8	1264.4	1534.0	2081.7	3132.3	3866.8	3887.1	2946.4	2026.8	1515.5	1256.0
72.5°	460.6	488.5	644.9	1119.1	2127.4	2958.2	2970.9	2181.5	1165.5	700.7	516.4
75°	169.9	175.0	203.7	363.4	969.5	1816.3	1863.7	1058.2	414.2	228.2	185.9
77.5°	98.0	98.9	109.0	135.2	287.4	709.1	737.9	321.2	160.6	121.7	112.4
80°	66.8	65.9	76.9	87.9	114.9	201.2	213.8	134.4	101.4	84.5	71.0
82.5°	38.9	41.4	56.6	62.5	70.2	88.7	90.4	83.7	76.1	62.5	46.5
85°	23.7	19.4	31.3	34.7	40.6	39.7	39.7	45.6	49.0	44.0	26.2
87.5°	5.9	5.9	7.6	8.5	11.0	8.5	9.3	17.7	23.7	22.0	13.5
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°	808.9	808.9	808.9	808.9	808.9	808.9	808.9	808.9	808.9	808.9	808.9
2.5°	810.6	808.0	809.7	819.0	813.1	795.3	799.6	808.9	801.3	797.0	796.2
5°	807.2	812.2	806.3	808.0	813.9	799.6	802.1	813.9	808.9	810.6	801.3
7.5°	808.0	810.6	805.5	797.9	797.9	809.7	802.9	804.6	797.0	809.7	792.8
10°	802.9	796.2	790.3	794.5	792.8	789.4	786.9	792.0	784.4	795.3	783.5
12.5°	787.7	789.4	787.7	786.0	789.4	797.9	784.4	786.0	774.2	775.9	781.8
15°	781.8	786.9	785.2	794.5	798.7	786.0	796.2	786.0	776.7	771.7	781.0
17.5°	784.4	792.0	789.4	796.2	788.6	797.9	799.6	795.3	784.4	780.1	784.4
20°	786.9	784.4	787.7	799.6	810.6	801.3	801.3	798.7	788.6	782.7	782.7
22.5°	792.8	788.6	793.6	802.9	806.3	820.7	808.0	802.1	785.2	770.0	784.4
25°	804.6	807.2	810.6	807.2	825.8	824.1	822.4	818.2	792.0	792.8	790.3
27.5°	827.5	813.1	817.3	837.6	840.1	846.9	838.4	846.1	818.2	819.0	802.1
30°	855.3	840.1	853.7	871.4	870.6	883.2	879.0	880.7	861.3	850.3	827.5
32.5°	885.8	884.1	892.5	903.5	907.8	914.5	913.7	913.7	901.8	873.1	877.3
35°	919.6	931.4	941.6	953.4	955.1	963.5	951.7	953.4	941.6	920.4	927.2
37.5°	986.4	985.5	996.5	1010.9	1012.6	1005.8	1015.1	1010.9	994.8	980.4	969.5
40°	1064.1	1047.2	1057.4	1091.2	1093.7	1081.9	1081.0	1080.2	1068.3	1037.1	1030.3
42.5°	1131.7	1153.7	1152.0	1163.0	1155.4	1149.5	1170.6	1158.8	1149.5	1116.5	1110.6
45°	1218.8	1225.5	1247.5	1283.0	1246.7	1246.7	1261.0	1251.8	1246.7	1222.2	1199.3
47.5°	1327.0	1332.9	1376.8	1379.4	1355.7	1339.7	1384.4	1386.1	1365.0	1346.4	1318.5
50°	1453.8	1456.3	1496.0	1536.6	1510.4	1480.0	1525.6	1543.3	1496.0	1470.7	1436.0
52.5°	1593.2	1585.6	1618.6	1694.6	1669.3	1660.0	1709.0	1713.2	1649.0	1609.3	1618.6
55°	1753.8	1743.7	1833.3	1884.8	1868.8	1851.8	1873.8	1884.0	1832.4	1767.3	1790.1
57.5°	1961.7	1966.8	2011.6	2062.3	2088.5	2092.7	2102.9	2092.7	2040.3	1974.4	1953.3
60°	2169.6	2184.9	2271.9	2367.4	2375.9	2450.3	2436.7	2386.0	2311.6	2217.8	2222.0
62.5°	2246.6	2233.9	2374.2	2607.5	2806.1	2942.2	2882.2	2702.1	2529.7	2359.0	2371.6
65°	2091.9	2123.2	2314.2	2679.3	3110.4	3648.8	3329.3	2831.4	2483.2	2262.6	2238.1
67.5°	1802.8	1826.5	2069.1	2454.5	3219.4	4083.2	3498.3	2648.9	2189.9	1904.2	1919.5
70°	1256.0	1267.8	1505.3	2010.7	2919.3	3853.3	3156.0	2034.4	1512.1	1205.3	1222.2
72.5°	505.4	534.2	690.5	1211.2	2155.3	2927.8	2124.8	1067.5	627.1	466.6	423.4
75°	186.8	187.6	220.6	416.7	1023.5	1840.0	958.5	343.2	200.3	164.0	156.4
77.5°	108.2	107.3	114.9	150.4	296.7	718.4	272.2	134.4	109.0	98.0	93.8
80°	67.6	66.8	78.6	99.7	130.2	196.9	114.9	83.7	73.5	63.4	63.4
82.5°	43.1	44.0	61.7	73.5	79.4	87.1	66.8	59.2	54.9	36.3	35.5
85°	27.9	25.4	43.1	49.0	44.0	38.9	37.2	31.3	28.7	17.7	19.4
87.5°	12.7	13.5	22.0	24.5	16.1	9.3	9.3	6.8	6.8	4.2	4.2
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)