

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: P479204

Luminaire Tested: **IFLD-S-SA2A-727-U-5MQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P479204
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2A-727-U-5MQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5MQ distribution lens
Light Source: (32) 2700K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

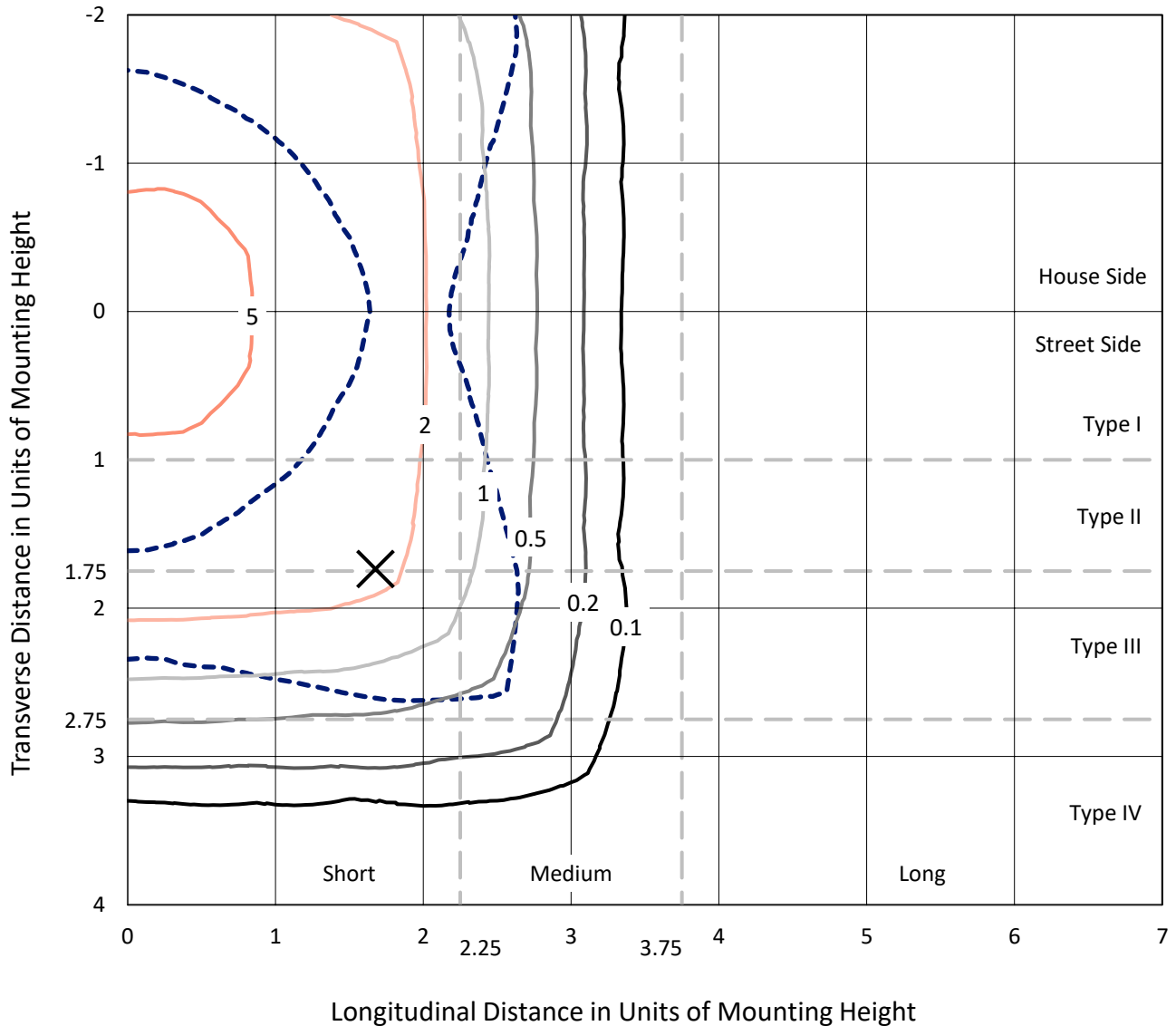
Lumens per Lamp: N/A
Luminaire Lumens: 7793.6 lumens
Efficiency: N/A
Efficacy: 122.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G2

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

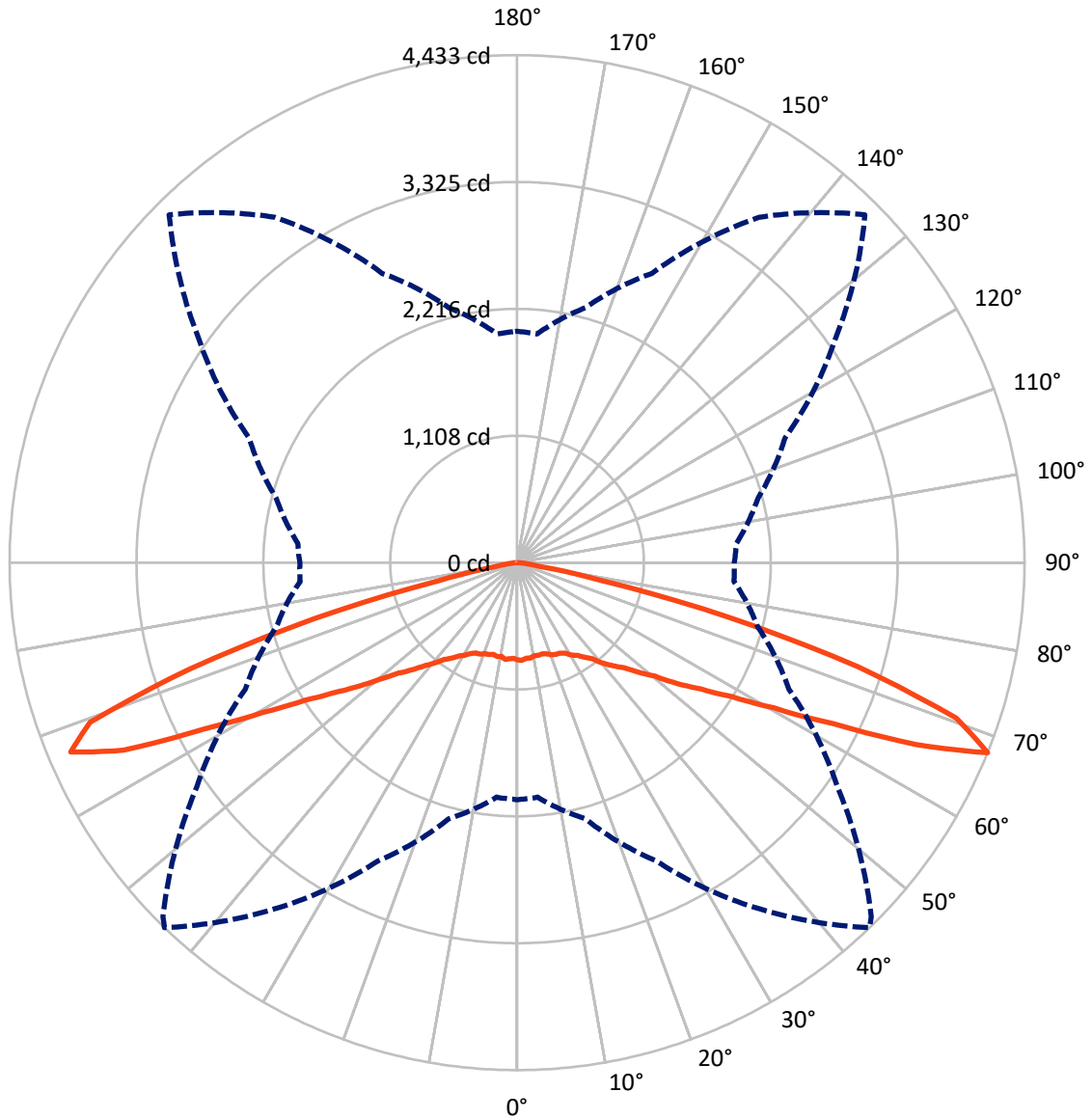
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 8.5 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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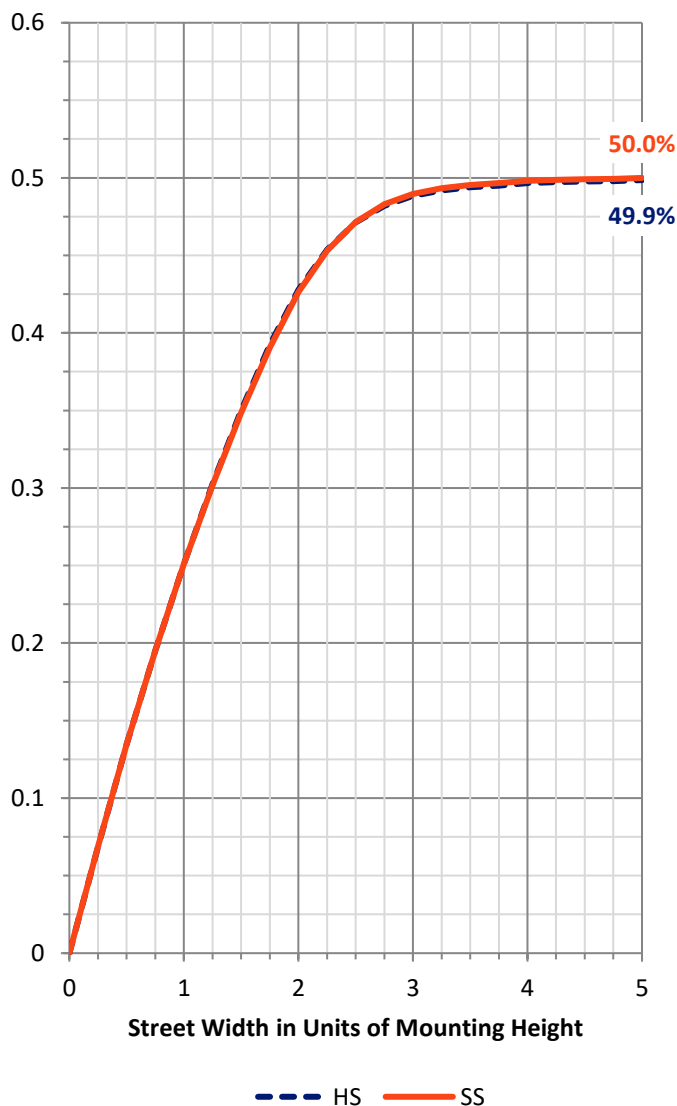
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3886.8	0.0	3886.8
	% Fixture	49.9	0.0	49.9
Street Side	Lumens	3906.8	0.0	3906.8
	% Fixture	50.1	0.0	50.1
Total	Lumens	7793.6	0.0	7793.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.6	1.0
10°-20°	235.4	3.0
20°-30°	400.2	5.1
30°-40°	634.6	8.1
40°-50°	1034.7	13.3
50°-60°	1767.2	22.7
60°-70°	2687.9	34.5
70°-80°	906.0	11.6
80°-90°	47.0	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°	7793.6	100.0
0°-180°	7793.6	100.0

Coefficient of Utilization



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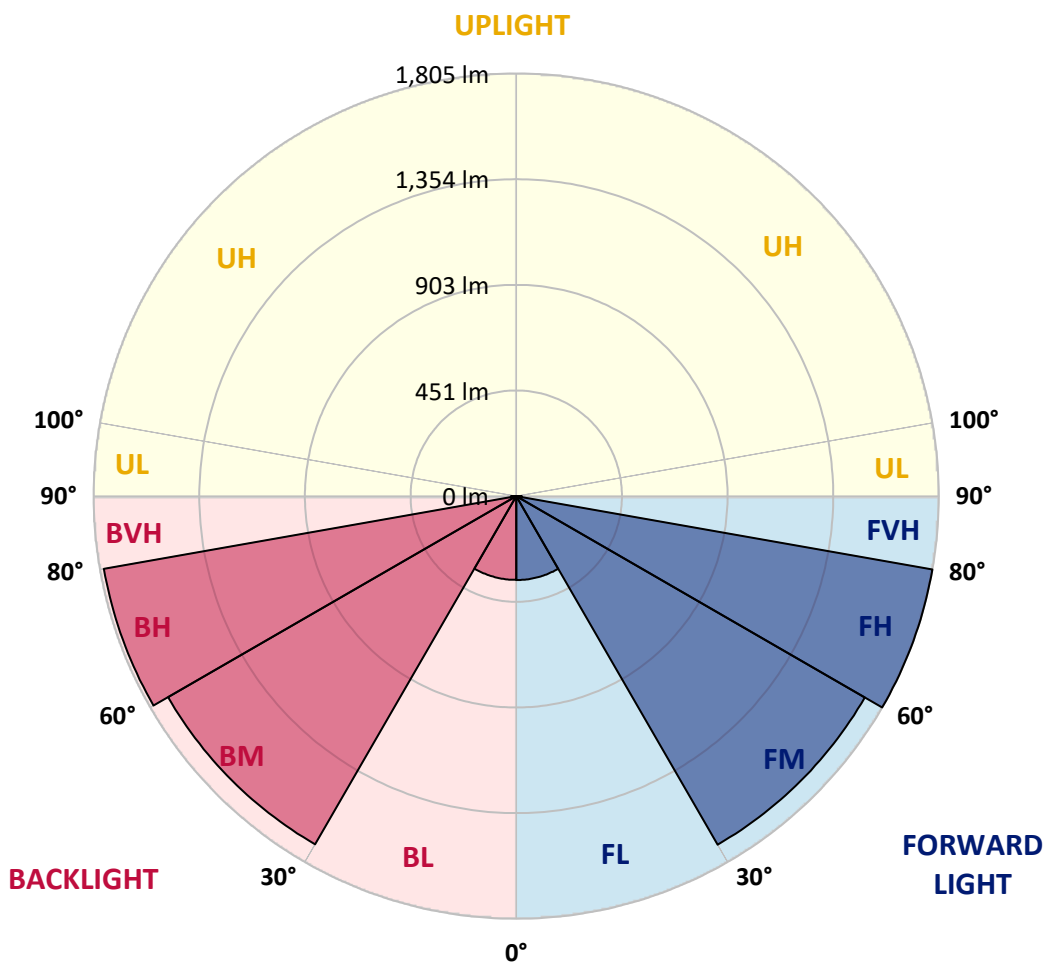
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	358.4	4.6			
FM (30°-60°)	1719.2	22.1			
FH (60°-80°)	1805.1	23.2			G2/5000
FVH (80°-90°)	24.1	0.3			G1/100
BL (0°-30°)	357.7	4.6	B1/500		
BM (30°-60°)	1717.3	22.0	B2/2500		
BH (60°-80°)	1788.8	23.0	B3/2500		G1/1800
BVH (80°-90°)	23.0	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-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	851.3	851.3	851.3	851.3	851.3	851.3	851.3	851.3	851.3	851.3	851.3
2.5°	831.7	841.5	848.6	847.8	850.4	853.1	849.5	854.9	851.3	857.5	861.1
5°	847.8	845.1	846.0	840.6	853.1	838.9	838.9	846.0	854.9	844.2	850.4
7.5°	838.0	836.2	831.7	839.7	842.4	842.4	849.5	836.2	851.3	854.9	855.8
10°	827.3	817.5	830.9	838.9	840.6	826.4	832.6	836.2	831.7	836.2	838.9
12.5°	818.4	823.7	823.7	823.7	821.1	830.9	837.1	836.2	827.3	835.3	821.1
15°	817.5	814.8	822.8	830.0	825.5	827.3	830.0	838.0	821.1	824.6	824.6
17.5°	816.6	820.2	822.8	822.0	837.1	837.1	834.4	829.1	842.4	835.3	825.5
20°	820.2	817.5	824.6	827.3	838.0	859.3	851.3	846.9	839.7	830.9	830.9
22.5°	824.6	822.8	832.6	844.2	864.7	870.0	869.1	863.8	851.3	840.6	838.9
25°	840.6	824.6	835.3	857.5	864.7	875.3	882.4	875.3	858.4	861.1	845.1
27.5°	864.7	862.0	876.2	891.3	885.1	894.9	888.7	894.0	894.9	881.6	865.5
30°	893.1	885.1	894.0	923.4	926.0	936.7	926.0	911.8	916.2	904.7	896.7
32.5°	934.0	931.4	948.3	967.8	971.4	966.1	960.7	968.7	950.1	941.2	926.9
35°	960.7	972.3	992.8	1007.9	1019.4	1014.1	1016.8	1008.8	1013.2	994.5	988.3
37.5°	1039.9	1035.5	1039.9	1065.7	1068.4	1065.7	1068.4	1077.3	1071.0	1055.0	1039.0
40°	1114.6	1107.5	1118.2	1147.5	1145.8	1154.7	1136.9	1146.6	1146.6	1116.4	1110.2
42.5°	1170.7	1194.7	1207.1	1231.2	1240.0	1232.0	1228.5	1230.3	1249.8	1214.3	1200.9
45°	1286.3	1285.4	1322.8	1336.1	1311.2	1309.4	1302.3	1323.7	1337.0	1316.6	1311.2
47.5°	1411.7	1418.0	1439.3	1444.6	1459.8	1432.2	1432.2	1434.9	1482.0	1434.0	1409.1
50°	1524.7	1532.7	1575.4	1617.2	1588.8	1559.4	1571.0	1585.2	1611.0	1565.6	1544.3
52.5°	1661.7	1705.3	1733.8	1756.0	1776.5	1756.0	1729.3	1745.3	1796.0	1735.5	1708.8
55°	1859.2	1893.9	1920.6	1961.5	1978.4	1950.8	1948.1	1946.4	1974.8	1910.8	1874.3
57.5°	2079.8	2065.6	2108.3	2171.4	2232.8	2206.1	2198.1	2199.9	2207.0	2116.3	2088.7
60°	2353.8	2369.8	2420.5	2475.7	2540.6	2578.0	2525.5	2495.2	2501.4	2377.8	2335.1
62.5°	2510.3	2545.9	2660.7	2850.2	2980.9	3097.5	3105.5	2908.9	2777.2	2537.0	2355.6
65°	2434.7	2429.4	2645.6	2996.0	3491.5	3830.5	3779.7	3302.9	2843.0	2461.4	2217.7
67.5°	2070.9	2056.7	2318.2	2874.2	3692.6	4432.7	4374.9	3414.1	2620.6	2177.6	1901.9
70°	1334.3	1330.8	1614.6	2191.0	3296.7	4069.7	4091.1	3101.0	2133.2	1595.0	1321.9
72.5°	484.8	514.2	678.7	1177.8	2239.0	3113.5	3126.8	2296.0	1226.7	737.4	543.5
75°	178.8	184.1	214.4	382.5	1020.3	1911.7	1961.5	1113.7	435.9	240.2	195.7
77.5°	103.2	104.1	114.8	142.3	302.5	746.3	776.6	338.0	169.0	128.1	118.3
80°	70.3	69.4	81.0	92.5	121.0	211.7	225.1	141.4	106.7	89.0	74.7
82.5°	40.9	43.6	59.6	65.8	73.8	93.4	95.2	88.1	80.1	65.8	48.9
85°	24.9	20.5	32.9	36.5	42.7	41.8	41.8	48.0	51.6	46.3	27.6
87.5°	6.2	6.2	8.0	8.9	11.6	8.9	9.8	18.7	24.9	23.1	14.2
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°	851.3	851.3	851.3	851.3	851.3	851.3	851.3	851.3	851.3	851.3	851.3
2.5°	853.1	850.4	852.2	862.0	855.8	837.1	841.5	851.3	843.3	838.9	838.0
5°	849.5	854.9	848.6	850.4	856.6	841.5	844.2	856.6	851.3	853.1	843.3
7.5°	850.4	853.1	847.8	839.7	839.7	852.2	845.1	846.9	838.9	852.2	834.4
10°	845.1	838.0	831.7	836.2	834.4	830.9	828.2	833.5	825.5	837.1	824.6
12.5°	829.1	830.9	829.1	827.3	830.9	839.7	825.5	827.3	814.8	816.6	822.8
15°	822.8	828.2	826.4	836.2	840.6	827.3	838.0	827.3	817.5	812.2	822.0
17.5°	825.5	833.5	830.9	838.0	830.0	839.7	841.5	837.1	825.5	821.1	825.5
20°	828.2	825.5	829.1	841.5	853.1	843.3	843.3	840.6	830.0	823.7	823.7
22.5°	834.4	830.0	835.3	845.1	848.6	863.8	850.4	844.2	826.4	810.4	825.5
25°	846.9	849.5	853.1	849.5	869.1	867.3	865.5	861.1	833.5	834.4	831.7
27.5°	870.9	855.8	860.2	881.6	884.2	891.3	882.4	890.5	861.1	862.0	844.2
30°	900.2	884.2	898.5	917.1	916.2	929.6	925.1	926.9	906.5	894.9	870.9
32.5°	932.3	930.5	939.4	950.9	955.4	962.5	961.6	961.6	949.2	918.9	923.4
35°	967.8	980.3	991.0	1003.4	1005.2	1014.1	1001.6	1003.4	991.0	968.7	975.8
37.5°	1038.1	1037.2	1048.8	1063.9	1065.7	1058.6	1068.4	1063.9	1047.0	1031.9	1020.3
40°	1120.0	1102.2	1112.8	1148.4	1151.1	1138.6	1137.7	1136.9	1124.4	1091.5	1084.4
42.5°	1191.1	1214.3	1212.5	1224.0	1216.0	1209.8	1232.0	1219.6	1209.8	1175.1	1168.9
45°	1282.7	1289.9	1313.0	1350.4	1312.1	1312.1	1327.2	1317.4	1312.1	1286.3	1262.3
47.5°	1396.6	1402.8	1449.1	1451.8	1426.9	1410.0	1457.1	1458.9	1436.6	1417.1	1387.7
50°	1530.0	1532.7	1574.5	1617.2	1589.6	1557.6	1605.7	1624.3	1574.5	1547.8	1511.4
52.5°	1676.8	1668.8	1703.5	1783.6	1756.9	1747.1	1798.7	1803.1	1735.5	1693.7	1703.5
55°	1845.8	1835.2	1929.5	1983.7	1966.8	1949.0	1972.2	1982.8	1928.6	1860.1	1884.1
57.5°	2064.7	2070.0	2117.2	2170.5	2198.1	2202.6	2213.2	2202.6	2147.4	2078.0	2055.8
60°	2283.5	2299.5	2391.1	2491.7	2500.6	2578.8	2564.6	2511.2	2433.0	2334.2	2338.7
62.5°	2364.5	2351.1	2498.8	2744.3	2953.3	3096.6	3033.4	2843.9	2662.5	2482.8	2496.1
65°	2201.7	2234.6	2435.6	2819.9	3273.6	3840.2	3504.0	2980.0	2613.5	2381.4	2355.6
67.5°	1897.4	1922.3	2177.6	2583.3	3388.3	4297.5	3681.9	2787.9	2304.9	2004.2	2020.2
70°	1321.9	1334.3	1584.3	2116.3	3072.5	4055.5	3321.6	2141.2	1591.4	1268.5	1286.3
72.5°	532.0	562.2	726.8	1274.7	2268.4	3081.4	2236.4	1123.5	660.1	491.0	445.7
75°	196.6	197.5	232.2	438.6	1077.3	1936.6	1008.8	361.2	210.8	172.6	164.6
77.5°	113.9	113.0	121.0	158.3	312.2	756.1	286.4	141.4	114.8	103.2	98.7
80°	71.2	70.3	82.7	105.0	137.0	207.3	121.0	88.1	77.4	66.7	66.7
82.5°	45.4	46.3	64.9	77.4	83.6	91.6	70.3	62.3	57.8	38.3	37.4
85°	29.4	26.7	45.4	51.6	46.3	40.9	39.1	32.9	30.2	18.7	20.5
87.5°	13.3	14.2	23.1	25.8	16.9	9.8	9.8	7.1	7.1	4.4	4.4
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)