

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: P479438

Luminaire Tested: **IFLD-S-SA2A-827-U-5MQ**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P479438  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA2A-827-U-5MQ  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5MQ distribution lens  
Light Source: (32) 2700K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

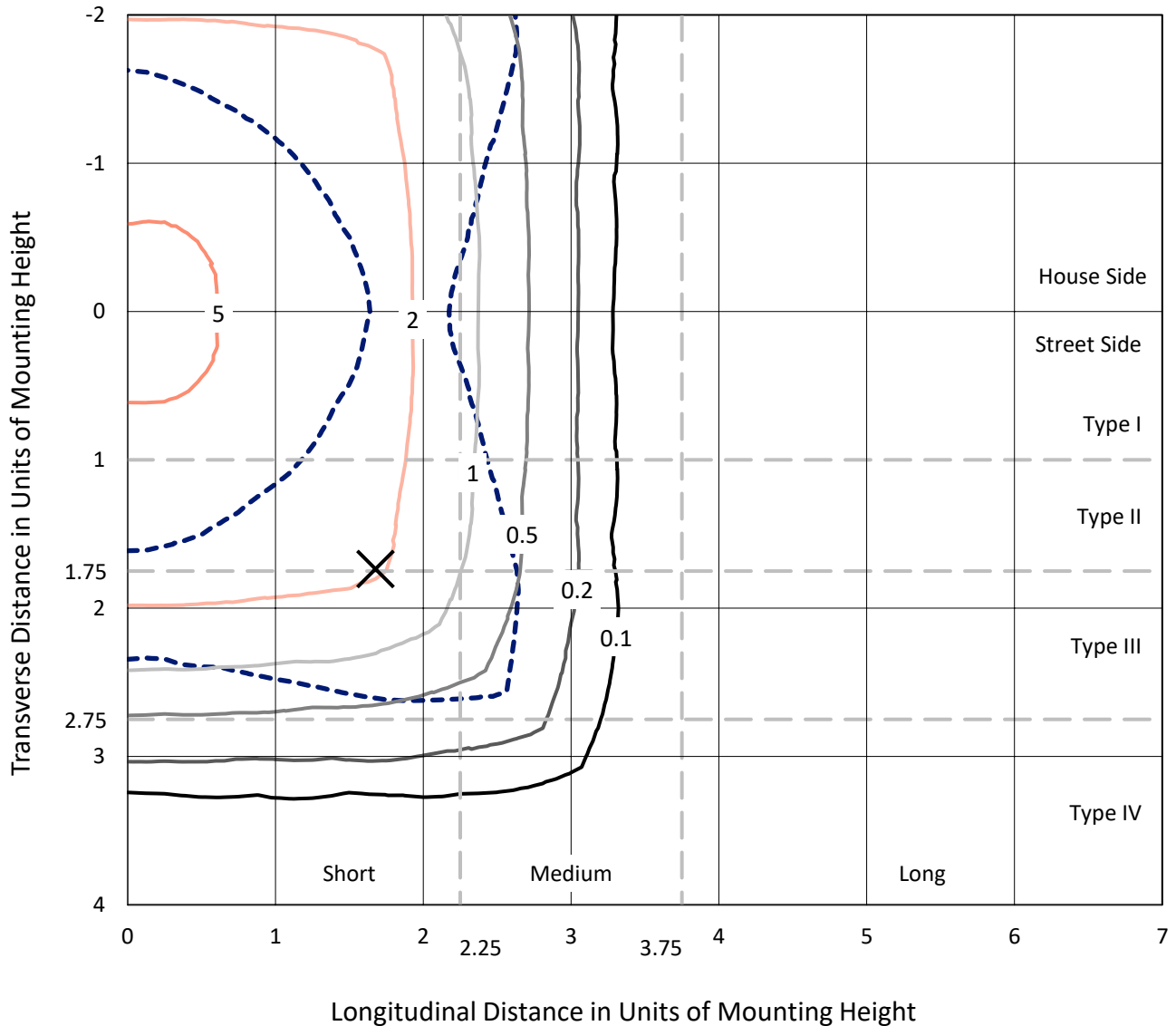
Lumens per Lamp: N/A  
Luminaire Lumens: 6850.5 lumens  
Efficiency: N/A  
Efficacy: 107.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B3 - U0 - G1

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

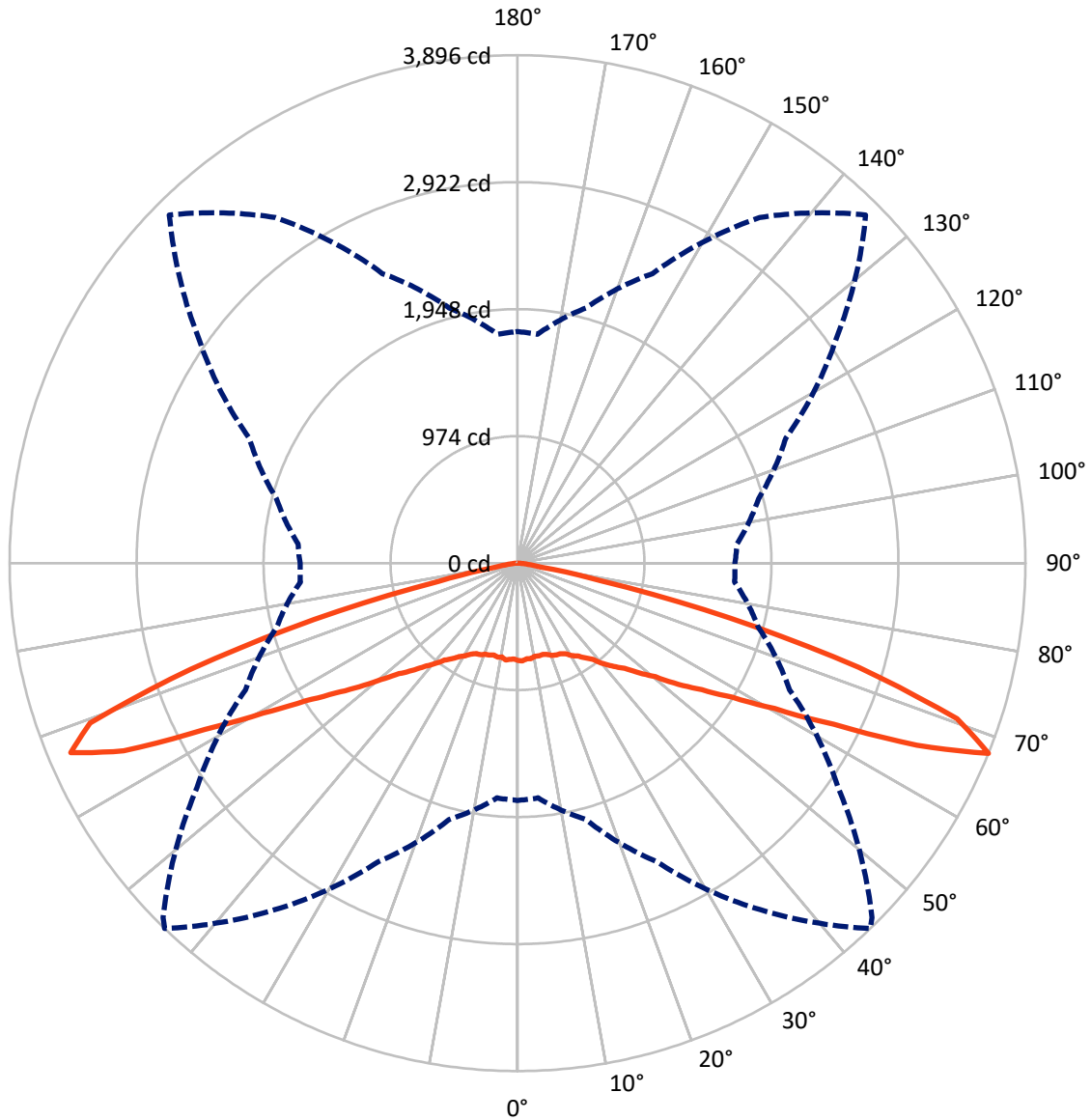
✕ Max cd  
 - - - 1/2 Max cd



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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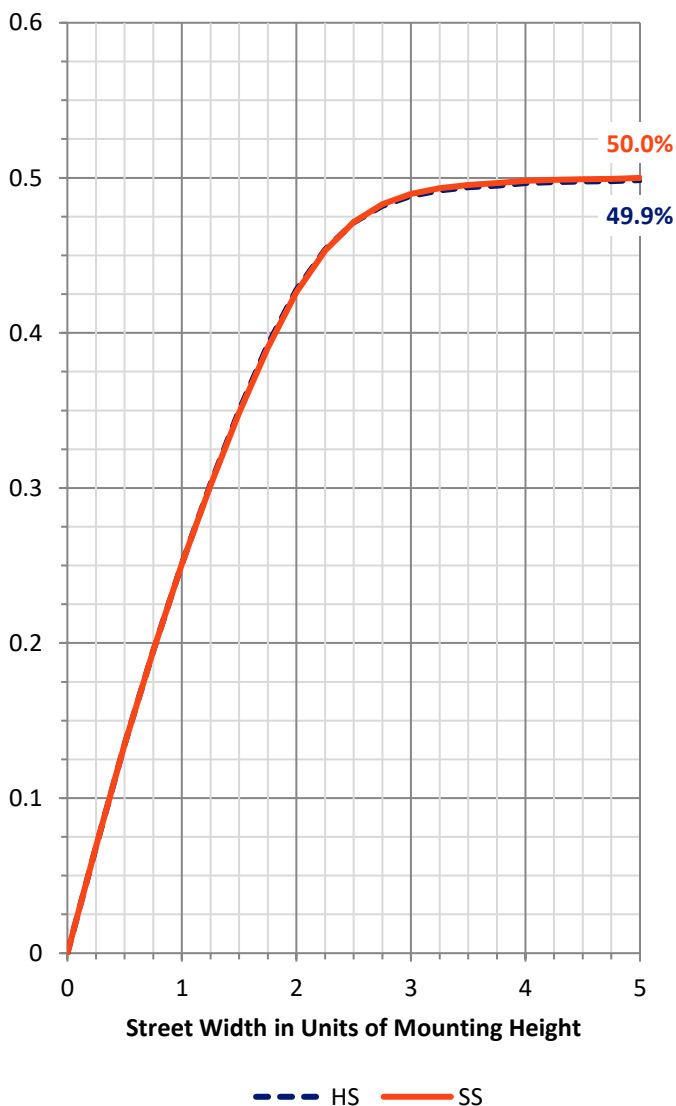
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3416.5	0.0	3416.5
	% Fixture	49.9	0.0	49.9
<b>Street Side</b>	Lumens	3434.0	0.0	3434.0
	% Fixture	50.1	0.0	50.1
<b>Total</b>	Lumens	6850.5	0.0	6850.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	70.8	1.0
10°-20°	206.9	3.0
20°-30°	351.8	5.1
30°-40°	557.8	8.1
40°-50°	909.5	13.3
50°-60°	1553.3	22.7
60°-70°	2362.6	34.5
70°-80°	796.4	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°	6850.5	100.0
0°-180°	6850.5	100.0

**Coefficient of Utilization**



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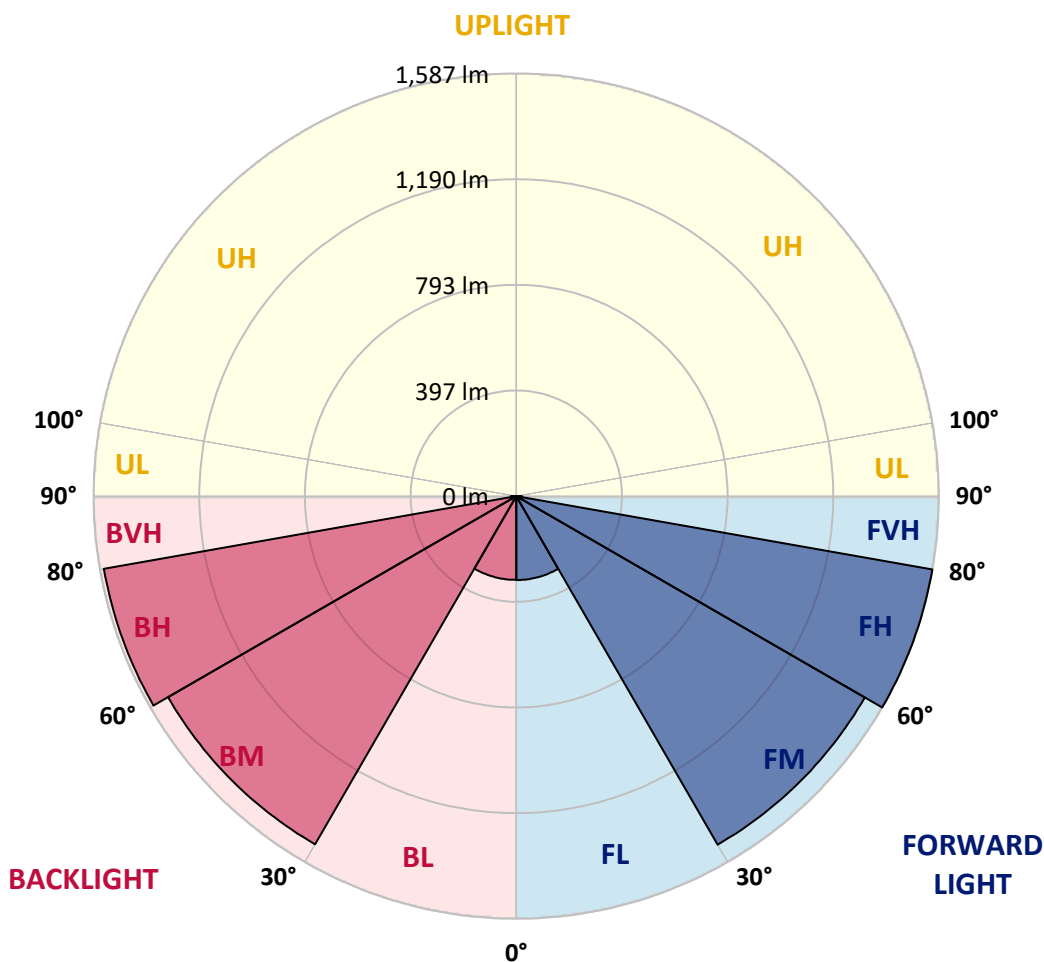
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	315.1	4.6			
FM (30°-60°)	1511.1	22.1			
FH (60°-80°)	1586.6	23.2			G1/1800
FVH (80°-90°)	21.2	0.3			G1/100
BL (0°-30°)	314.4	4.6	B1/500		
BM (30°-60°)	1509.5	22.0	B2/2500		
BH (60°-80°)	1572.3	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°	748.3	748.3	748.3	748.3	748.3	748.3	748.3	748.3	748.3	748.3	748.3
2.5°	731.1	739.7	745.9	745.2	747.5	749.9	746.7	751.4	748.3	753.8	756.9
5°	745.2	742.8	743.6	738.9	749.9	737.3	737.3	743.6	751.4	742.0	747.5
7.5°	736.6	735.0	731.1	738.1	740.5	740.5	746.7	735.0	748.3	751.4	752.2
10°	727.2	718.6	730.3	737.3	738.9	726.4	731.9	735.0	731.1	735.0	737.3
12.5°	719.4	724.1	724.1	724.1	721.7	730.3	735.8	735.0	727.2	734.2	721.7
15°	718.6	716.2	723.3	729.5	725.6	727.2	729.5	736.6	721.7	724.8	724.8
17.5°	717.8	720.9	723.3	722.5	735.8	735.8	733.4	728.7	740.5	734.2	725.6
20°	720.9	718.6	724.8	727.2	736.6	755.3	748.3	744.4	738.1	730.3	730.3
22.5°	724.8	723.3	731.9	742.0	760.0	764.7	763.9	759.2	748.3	738.9	737.3
25°	738.9	724.8	734.2	753.8	760.0	769.4	775.7	769.4	754.5	756.9	742.8
27.5°	760.0	757.7	770.2	783.5	778.0	786.6	781.1	785.8	786.6	774.9	760.8
30°	785.0	778.0	785.8	811.6	814.0	823.4	814.0	801.5	805.4	795.2	788.2
32.5°	821.0	818.7	833.5	850.7	853.9	849.2	844.5	851.5	835.1	827.3	814.8
35°	844.5	854.6	872.6	885.9	896.1	891.4	893.7	886.7	890.6	874.2	868.7
37.5°	914.1	910.2	914.1	936.7	939.1	936.7	939.1	946.9	941.4	927.4	913.3
40°	979.7	973.5	982.9	1008.7	1007.1	1014.9	999.3	1007.9	1007.9	981.3	975.8
42.5°	1029.0	1050.1	1061.1	1082.2	1090.0	1083.0	1079.8	1081.4	1098.6	1067.3	1055.6
45°	1130.7	1129.9	1162.7	1174.4	1152.5	1151.0	1144.7	1163.5	1175.2	1157.2	1152.5
47.5°	1240.9	1246.4	1265.1	1269.8	1283.1	1258.9	1258.9	1261.2	1302.7	1260.4	1238.6
50°	1340.2	1347.2	1384.8	1421.5	1396.5	1370.7	1380.9	1393.4	1416.1	1376.2	1357.4
52.5°	1460.6	1498.9	1524.0	1543.5	1561.5	1543.5	1520.0	1534.1	1578.7	1525.5	1502.1
55°	1634.2	1664.7	1688.2	1724.1	1739.0	1714.7	1712.4	1710.8	1735.9	1679.6	1647.5
57.5°	1828.1	1815.6	1853.1	1908.7	1962.6	1939.2	1932.1	1933.7	1939.9	1860.2	1835.9
60°	2069.0	2083.0	2127.6	2176.1	2233.2	2266.0	2219.9	2193.3	2198.7	2090.1	2052.5
62.5°	2206.6	2237.8	2338.7	2505.3	2620.2	2722.6	2729.7	2556.9	2441.1	2230.0	2070.5
65°	2140.1	2135.4	2325.4	2633.5	3069.0	3366.9	3322.4	2903.3	2499.0	2163.6	1949.3
67.5°	1820.3	1807.8	2037.7	2526.4	3245.7	3896.3	3845.5	3001.0	2303.5	1914.1	1671.7
70°	1172.9	1169.7	1419.2	1925.9	2897.8	3577.3	3596.0	2725.8	1875.0	1402.0	1161.9
72.5°	426.1	451.9	596.6	1035.3	1968.1	2736.7	2748.4	2018.1	1078.3	648.2	477.8
75°	157.2	161.9	188.4	336.2	896.9	1680.3	1724.1	979.0	383.1	211.1	172.0
77.5°	90.7	91.5	100.9	125.1	265.9	656.0	682.6	297.1	148.6	112.6	104.0
80°	61.8	61.0	71.2	81.3	106.3	186.1	197.8	124.3	93.8	78.2	65.7
82.5°	36.0	38.3	52.4	57.9	64.9	82.1	83.7	77.4	70.4	57.9	43.0
85°	21.9	18.0	28.9	32.1	37.5	36.8	36.8	42.2	45.4	40.7	24.2
87.5°	5.5	5.5	7.0	7.8	10.2	7.8	8.6	16.4	21.9	20.3	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°	748.3	748.3	748.3	748.3	748.3	748.3	748.3	748.3	748.3	748.3	748.3
2.5°	749.9	747.5	749.1	757.7	752.2	735.8	739.7	748.3	741.3	737.3	736.6
5°	746.7	751.4	745.9	747.5	753.0	739.7	742.0	753.0	748.3	749.9	741.3
7.5°	747.5	749.9	745.2	738.1	738.1	749.1	742.8	744.4	737.3	749.1	733.4
10°	742.8	736.6	731.1	735.0	733.4	730.3	728.0	732.7	725.6	735.8	724.8
12.5°	728.7	730.3	728.7	727.2	730.3	738.1	725.6	727.2	716.2	717.8	723.3
15°	723.3	728.0	726.4	735.0	738.9	727.2	736.6	727.2	718.6	713.9	722.5
17.5°	725.6	732.7	730.3	736.6	729.5	738.1	739.7	735.8	725.6	721.7	725.6
20°	728.0	725.6	728.7	739.7	749.9	741.3	741.3	738.9	729.5	724.1	724.1
22.5°	733.4	729.5	734.2	742.8	745.9	759.2	747.5	742.0	726.4	712.3	725.6
25°	744.4	746.7	749.9	746.7	763.9	762.4	760.8	756.9	732.7	733.4	731.1
27.5°	765.5	752.2	756.1	774.9	777.2	783.5	775.7	782.7	756.9	757.7	742.0
30°	791.3	777.2	789.7	806.2	805.4	817.1	813.2	814.8	796.8	786.6	765.5
32.5°	819.4	817.9	825.7	835.9	839.8	846.0	845.3	845.3	834.3	807.7	811.6
35°	850.7	861.7	871.1	882.0	883.6	891.4	880.4	882.0	871.1	851.5	857.8
37.5°	912.5	911.7	921.9	935.2	936.7	930.5	939.1	935.2	920.3	907.0	896.9
40°	984.4	968.8	978.2	1009.5	1011.8	1000.9	1000.1	999.3	988.3	959.4	953.2
42.5°	1047.0	1067.3	1065.8	1075.9	1068.9	1063.4	1083.0	1072.0	1063.4	1032.9	1027.4
45°	1127.5	1133.8	1154.1	1186.9	1153.3	1153.3	1166.6	1158.0	1153.3	1130.7	1109.5
47.5°	1227.6	1233.1	1273.7	1276.1	1254.2	1239.3	1280.8	1282.3	1262.8	1245.6	1219.8
50°	1344.9	1347.2	1384.0	1421.5	1397.3	1369.1	1411.4	1427.8	1384.0	1360.5	1328.5
52.5°	1473.9	1466.9	1497.4	1567.7	1544.3	1535.7	1581.0	1584.9	1525.5	1488.8	1497.4
55°	1622.5	1613.1	1696.0	1743.7	1728.8	1713.2	1733.5	1742.9	1695.2	1635.0	1656.1
57.5°	1814.8	1819.5	1861.0	1907.9	1932.1	1936.0	1945.4	1936.0	1887.5	1826.6	1807.0
60°	2007.2	2021.3	2101.8	2190.1	2198.0	2266.8	2254.3	2207.4	2138.5	2051.7	2055.7
62.5°	2078.3	2066.6	2196.4	2412.2	2596.0	2721.9	2666.3	2499.8	2340.3	2182.3	2194.1
65°	1935.2	1964.2	2140.9	2478.7	2877.5	3375.5	3080.0	2619.4	2297.3	2093.2	2070.5
67.5°	1667.8	1689.7	1914.1	2270.7	2978.3	3777.4	3236.4	2450.5	2025.9	1761.7	1775.7
70°	1161.9	1172.9	1392.6	1860.2	2700.7	3564.8	2919.7	1882.1	1398.8	1115.0	1130.7
72.5°	467.6	494.2	638.8	1120.5	1993.9	2708.6	1965.7	987.6	580.2	431.6	391.7
75°	172.8	173.6	204.1	385.5	946.9	1702.2	886.7	317.5	185.3	151.7	144.7
77.5°	100.1	99.3	106.3	139.2	274.5	664.6	251.8	124.3	100.9	90.7	86.8
80°	62.6	61.8	72.7	92.3	120.4	182.2	106.3	77.4	68.0	58.6	58.6
82.5°	39.9	40.7	57.1	68.0	73.5	80.5	61.8	54.7	50.8	33.6	32.8
85°	25.8	23.5	39.9	45.4	40.7	36.0	34.4	28.9	26.6	16.4	18.0
87.5°	11.7	12.5	20.3	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)