

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: P479283

Luminaire Tested: **IFLD-S-SA2B-735-U-5MQ**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P479283  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA2B-735-U-5MQ  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5MQ distribution lens  
Light Source: (32) 3500K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

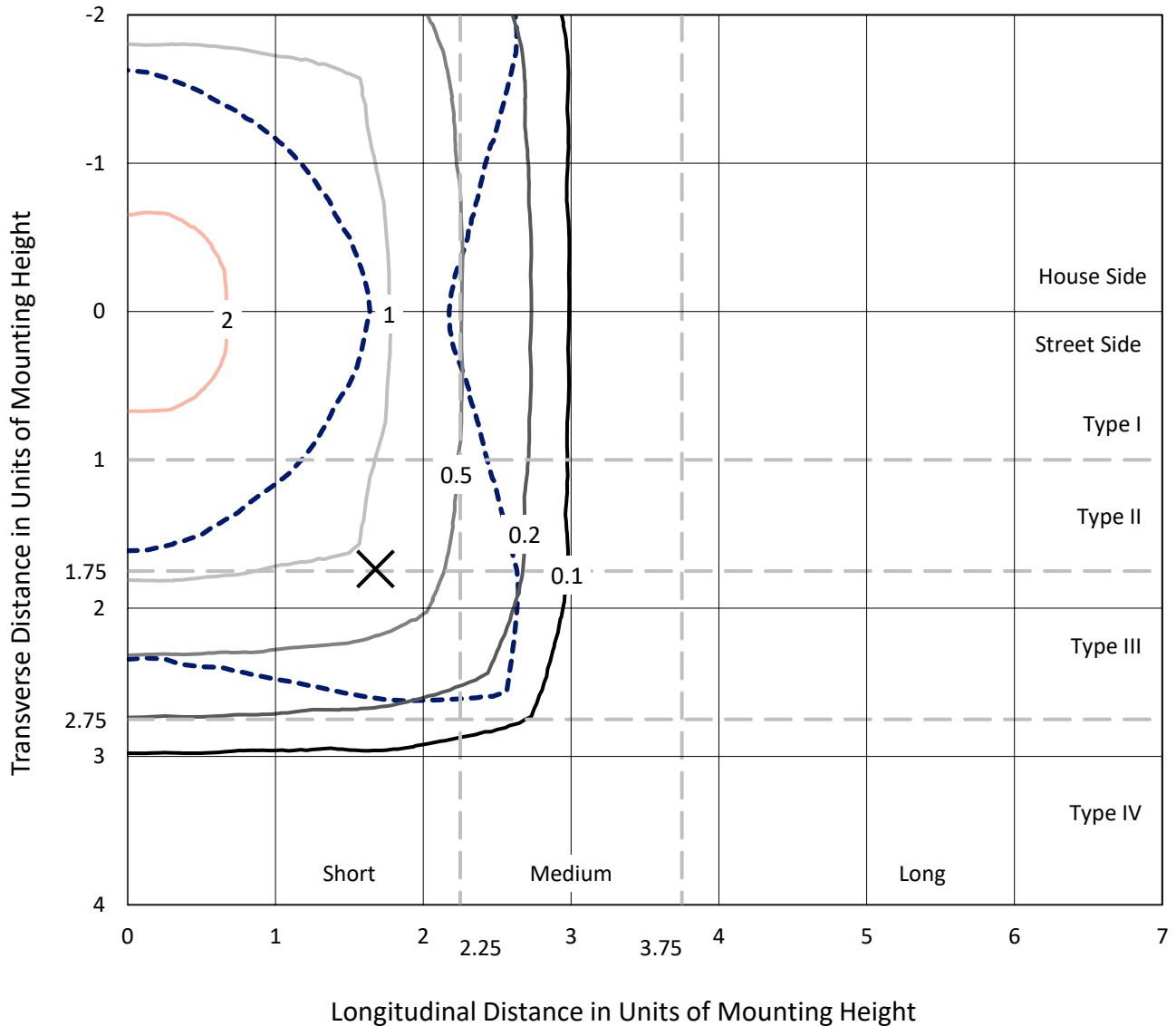
Lumens per Lamp: N/A  
Luminaire Lumens: 11367.3 lumens  
Efficiency: N/A  
Efficacy: 138.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G2

Input Watts (W): 82.4  
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

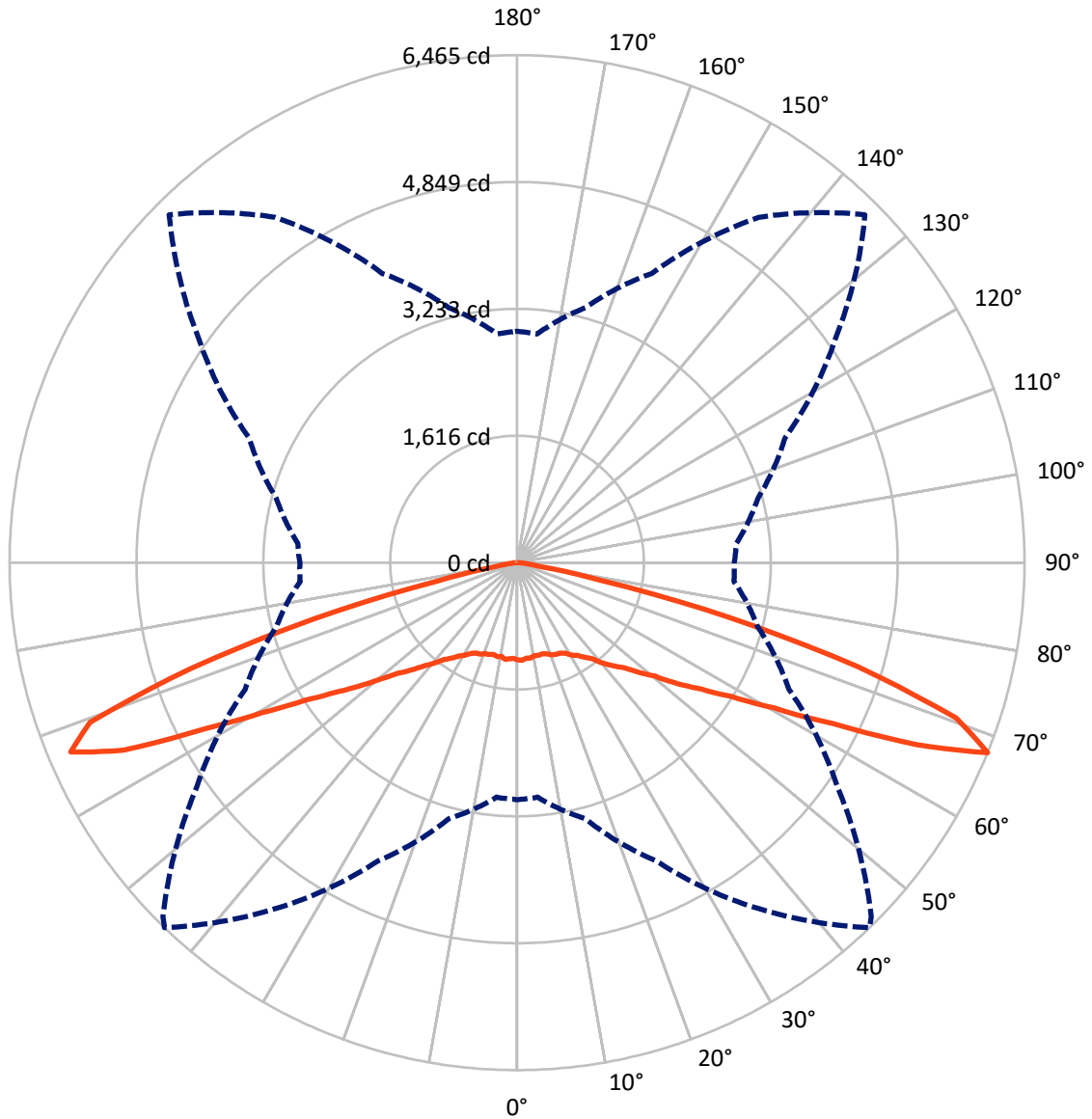
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 3.1 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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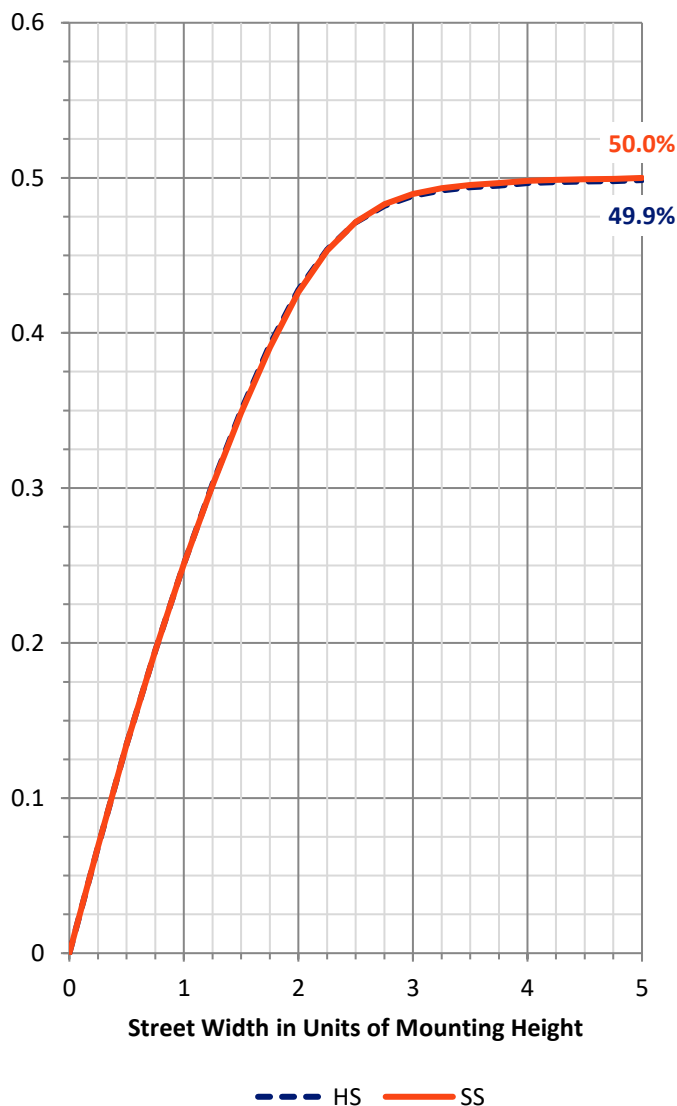
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5669.1	0.0	5669.1
	% Fixture	49.9	0.0	49.9
<b>Street Side</b>	Lumens	5698.2	0.0	5698.2
	% Fixture	50.1	0.0	50.1
<b>Total</b>	Lumens	11367.3	0.0	11367.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	117.5	1.0
10°-20°	343.3	3.0
20°-30°	583.8	5.1
30°-40°	925.6	8.1
40°-50°	1509.2	13.3
50°-60°	2577.5	22.7
60°-70°	3920.4	34.5
70°-80°	1321.4	11.6
80°-90°	68.6	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°	11367.3	100.0
0°-180°	11367.3	100.0

**Coefficient of Utilization**



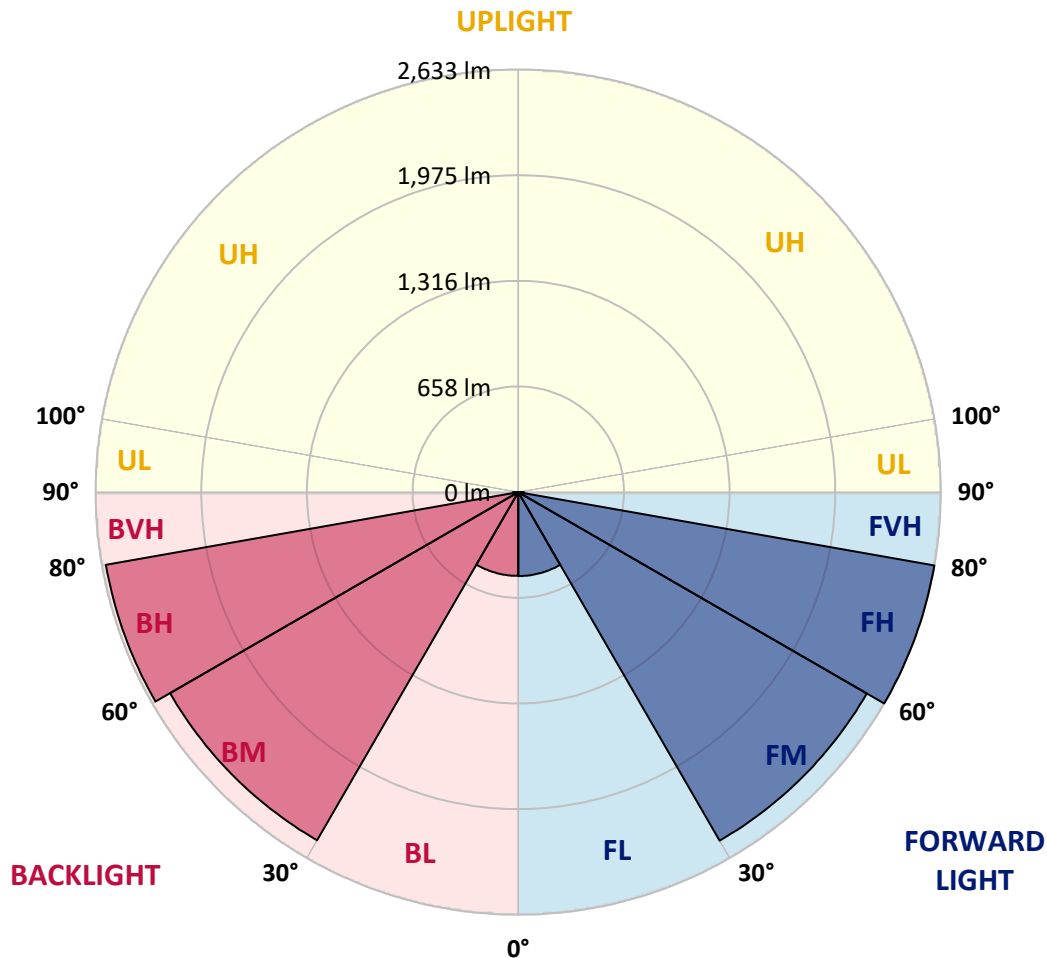
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	522.8	4.6			
FM (30°-60°)	2507.5	22.1			
FH (60°-80°)	2632.8	23.2			G2/5000
FVH (80°-90°)	35.1	0.3			G1/100
BL (0°-30°)	521.7	4.6	B2/1000		
BM (30°-60°)	2504.8	22.0	B3/5000		
BH (60°-80°)	2609.0	23.0	B4/5000		G2/5000
BVH (80°-90°)	33.5	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G2**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	1241.7	1241.7	1241.7	1241.7	1241.7	1241.7	1241.7	1241.7	1241.7	1241.7	1241.7
2.5°	1213.1	1227.4	1237.8	1236.5	1240.4	1244.3	1239.1	1246.9	1241.7	1250.8	1256.0
5°	1236.5	1232.6	1233.9	1226.1	1244.3	1223.5	1223.5	1233.9	1246.9	1231.3	1240.4
7.5°	1222.2	1219.6	1213.1	1224.8	1228.7	1228.7	1239.1	1219.6	1241.7	1246.9	1248.2
10°	1206.6	1192.4	1211.8	1223.5	1226.1	1205.4	1214.4	1219.6	1213.1	1219.6	1223.5
12.5°	1193.7	1201.5	1201.5	1201.5	1197.6	1211.8	1220.9	1219.6	1206.6	1218.3	1197.6
15°	1192.4	1188.5	1200.2	1210.5	1204.1	1206.6	1210.5	1222.2	1197.6	1202.8	1202.8
17.5°	1191.1	1196.3	1200.2	1198.9	1220.9	1220.9	1217.0	1209.2	1228.7	1218.3	1204.1
20°	1196.3	1192.4	1202.8	1206.6	1222.2	1253.4	1241.7	1235.2	1224.8	1211.8	1211.8
22.5°	1202.8	1200.2	1214.4	1231.3	1261.1	1268.9	1267.6	1259.8	1241.7	1226.1	1223.5
25°	1226.1	1202.8	1218.3	1250.8	1261.1	1276.7	1287.1	1276.7	1252.1	1256.0	1232.6
27.5°	1261.1	1257.3	1278.0	1300.1	1291.0	1305.3	1296.2	1304.0	1305.3	1285.8	1262.4
30°	1302.7	1291.0	1304.0	1346.8	1350.7	1366.2	1350.7	1329.9	1336.4	1319.5	1307.9
32.5°	1362.3	1358.5	1383.1	1411.7	1416.8	1409.1	1401.3	1412.9	1385.7	1372.7	1352.0
35°	1401.3	1418.1	1448.0	1470.0	1486.9	1479.1	1483.0	1471.3	1477.8	1450.6	1441.5
37.5°	1516.7	1510.3	1516.7	1554.4	1558.3	1554.4	1558.3	1571.2	1562.2	1538.8	1515.4
40°	1625.7	1615.4	1630.9	1673.7	1671.1	1684.1	1658.2	1672.4	1672.4	1628.3	1619.2
42.5°	1707.5	1742.5	1760.7	1795.7	1808.7	1797.0	1791.8	1794.4	1822.9	1771.1	1751.6
45°	1876.1	1874.8	1929.3	1948.8	1912.5	1909.9	1899.5	1930.6	1950.1	1920.3	1912.5
47.5°	2059.1	2068.2	2099.3	2107.1	2129.2	2088.9	2088.9	2092.8	2161.6	2091.5	2055.2
50°	2223.9	2235.5	2297.8	2358.8	2317.3	2274.5	2291.3	2312.1	2349.7	2283.6	2252.4
52.5°	2423.7	2487.3	2528.8	2561.2	2591.1	2561.2	2522.3	2545.6	2619.6	2531.4	2492.4
55°	2711.7	2762.3	2801.2	2860.9	2885.6	2845.4	2841.5	2838.9	2880.4	2787.0	2733.8
57.5°	3033.5	3012.7	3075.0	3167.1	3256.7	3217.7	3206.1	3208.7	3219.0	3086.7	3046.5
60°	3433.1	3456.5	3530.4	3610.9	3705.6	3760.1	3683.5	3639.4	3648.5	3468.1	3405.9
62.5°	3661.5	3713.4	3880.7	4157.1	4347.8	4517.8	4529.5	4242.7	4050.7	3700.4	3435.7
65°	3551.2	3543.4	3858.7	4369.9	5092.6	5586.9	5513.0	4817.5	4146.7	3590.1	3234.6
67.5°	3020.5	2999.8	3381.2	4192.1	5385.8	6465.3	6381.0	4979.7	3822.4	3176.2	2774.0
70°	1946.2	1941.0	2354.9	3195.7	4808.4	5935.9	5967.1	4523.0	3111.3	2326.4	1928.0
72.5°	707.1	749.9	990.0	1717.9	3265.7	4541.2	4560.6	3348.8	1789.2	1075.6	792.8
75°	260.8	268.6	312.7	557.9	1488.2	2788.3	2860.9	1624.4	635.8	350.3	285.4
77.5°	150.5	151.8	167.4	207.6	441.1	1088.6	1132.7	493.0	246.5	186.8	172.6
80°	102.5	101.2	118.1	134.9	176.5	308.8	328.3	206.3	155.7	129.7	109.0
82.5°	59.7	63.6	86.9	96.0	107.7	136.2	138.8	128.4	116.8	96.0	71.4
85°	36.3	29.8	48.0	53.2	62.3	61.0	61.0	70.1	75.3	67.5	40.2
87.5°	9.1	9.1	11.7	13.0	16.9	13.0	14.3	27.2	36.3	33.7	20.8
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°	1241.7	1241.7	1241.7	1241.7	1241.7	1241.7	1241.7	1241.7	1241.7	1241.7	1241.7
2.5°	1244.3	1240.4	1243.0	1257.3	1248.2	1220.9	1227.4	1241.7	1230.0	1223.5	1222.2
5°	1239.1	1246.9	1237.8	1240.4	1249.5	1227.4	1231.3	1249.5	1241.7	1244.3	1230.0
7.5°	1240.4	1244.3	1236.5	1224.8	1224.8	1243.0	1232.6	1235.2	1223.5	1243.0	1217.0
10°	1232.6	1222.2	1213.1	1219.6	1217.0	1211.8	1207.9	1215.7	1204.1	1220.9	1202.8
12.5°	1209.2	1211.8	1209.2	1206.6	1211.8	1224.8	1204.1	1206.6	1188.5	1191.1	1200.2
15°	1200.2	1207.9	1205.4	1219.6	1226.1	1206.6	1222.2	1206.6	1192.4	1184.6	1198.9
17.5°	1204.1	1215.7	1211.8	1222.2	1210.5	1224.8	1227.4	1220.9	1204.1	1197.6	1204.1
20°	1207.9	1204.1	1209.2	1227.4	1244.3	1230.0	1230.0	1226.1	1210.5	1201.5	1201.5
22.5°	1217.0	1210.5	1218.3	1232.6	1237.8	1259.8	1240.4	1231.3	1205.4	1182.0	1204.1
25°	1235.2	1239.1	1244.3	1239.1	1267.6	1265.0	1262.4	1256.0	1215.7	1217.0	1213.1
27.5°	1270.2	1248.2	1254.7	1285.8	1289.7	1300.1	1287.1	1298.8	1256.0	1257.3	1231.3
30°	1313.0	1289.7	1310.4	1337.7	1336.4	1355.9	1349.4	1352.0	1322.1	1305.3	1270.2
32.5°	1359.8	1357.2	1370.1	1387.0	1393.5	1403.9	1402.6	1402.6	1384.4	1340.3	1346.8
35°	1411.7	1429.8	1445.4	1463.5	1466.1	1479.1	1461.0	1463.5	1445.4	1412.9	1423.3
37.5°	1514.2	1512.9	1529.7	1551.8	1554.4	1544.0	1558.3	1551.8	1527.1	1505.1	1488.2
40°	1633.5	1607.6	1623.1	1675.0	1678.9	1660.8	1659.5	1658.2	1640.0	1592.0	1581.6
42.5°	1737.3	1771.1	1768.5	1785.3	1773.6	1764.6	1797.0	1778.8	1764.6	1714.0	1704.9
45°	1871.0	1881.3	1915.1	1969.6	1913.8	1913.8	1935.8	1921.6	1913.8	1876.1	1841.1
47.5°	2037.0	2046.1	2113.6	2117.5	2081.1	2056.5	2125.3	2127.9	2095.4	2066.9	2024.1
50°	2231.7	2235.5	2296.5	2358.8	2318.6	2271.9	2341.9	2369.2	2296.5	2257.6	2204.4
52.5°	2445.7	2434.1	2484.7	2601.4	2562.5	2548.2	2623.5	2630.0	2531.4	2470.4	2484.7
55°	2692.3	2676.7	2814.2	2893.4	2868.7	2842.8	2876.5	2892.1	2812.9	2713.0	2748.0
57.5°	3011.4	3019.2	3088.0	3165.8	3206.1	3212.5	3228.1	3212.5	3132.1	3030.9	2998.5
60°	3330.6	3354.0	3487.6	3634.2	3647.2	3761.4	3740.6	3662.8	3548.6	3404.6	3411.1
62.5°	3448.7	3429.2	3644.6	4002.7	4307.6	4516.5	4424.4	4148.0	3883.3	3621.2	3640.7
65°	3211.2	3259.3	3552.5	4113.0	4774.7	5601.2	5110.7	4346.5	3812.0	3473.3	3435.7
67.5°	2767.5	2803.8	3176.2	3767.9	4942.1	6268.1	5370.2	4066.3	3361.8	2923.2	2946.6
70°	1928.0	1946.2	2310.8	3086.7	4481.5	5915.2	4844.8	3123.0	2321.2	1850.2	1876.1
72.5°	775.9	820.0	1060.0	1859.3	3308.6	4494.4	3261.8	1638.7	962.7	716.2	650.0
75°	286.7	288.0	338.6	639.7	1571.2	2824.6	1471.3	526.8	307.5	251.7	240.0
77.5°	166.1	164.8	176.5	231.0	455.4	1102.9	417.8	206.3	167.4	150.5	144.0
80°	103.8	102.5	120.7	153.1	199.8	302.3	176.5	128.4	112.9	97.3	97.3
82.5°	66.2	67.5	94.7	112.9	122.0	133.6	102.5	90.8	84.3	55.8	54.5
85°	42.8	38.9	66.2	75.3	67.5	59.7	57.1	48.0	44.1	27.2	29.8
87.5°	19.5	20.8	33.7	37.6	24.7	14.3	14.3	10.4	10.4	6.5	6.5
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)