

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: P479400

Luminaire Tested: **IFLD-S-SA2B-760-U-5MQ**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P479400  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA2B-760-U-5MQ  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5MQ distribution lens  
Light Source: (32) 5700K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

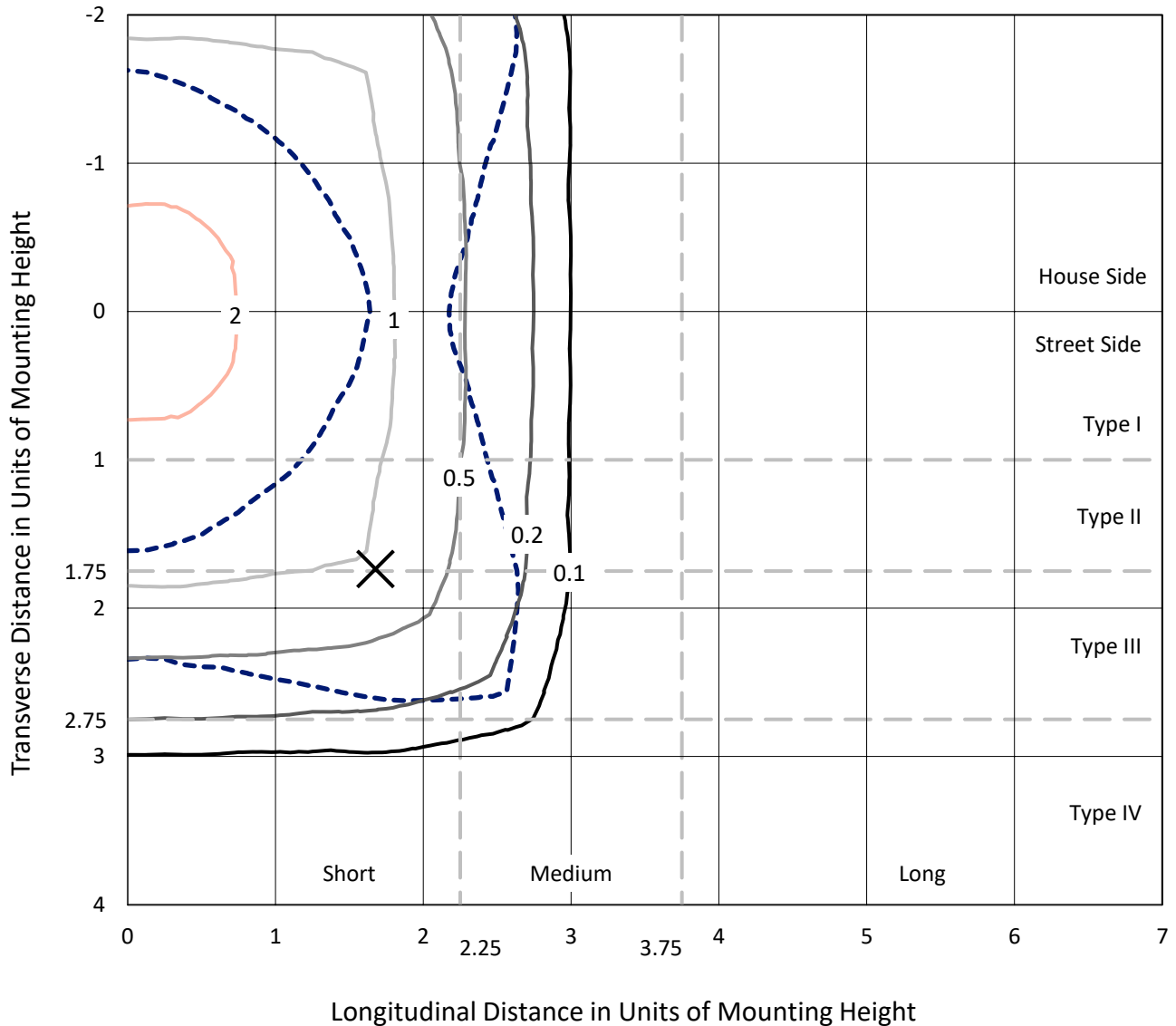
Lumens per Lamp: N/A  
Luminaire Lumens: 11789.1 lumens  
Efficiency: N/A  
Efficacy: 143.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G2

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

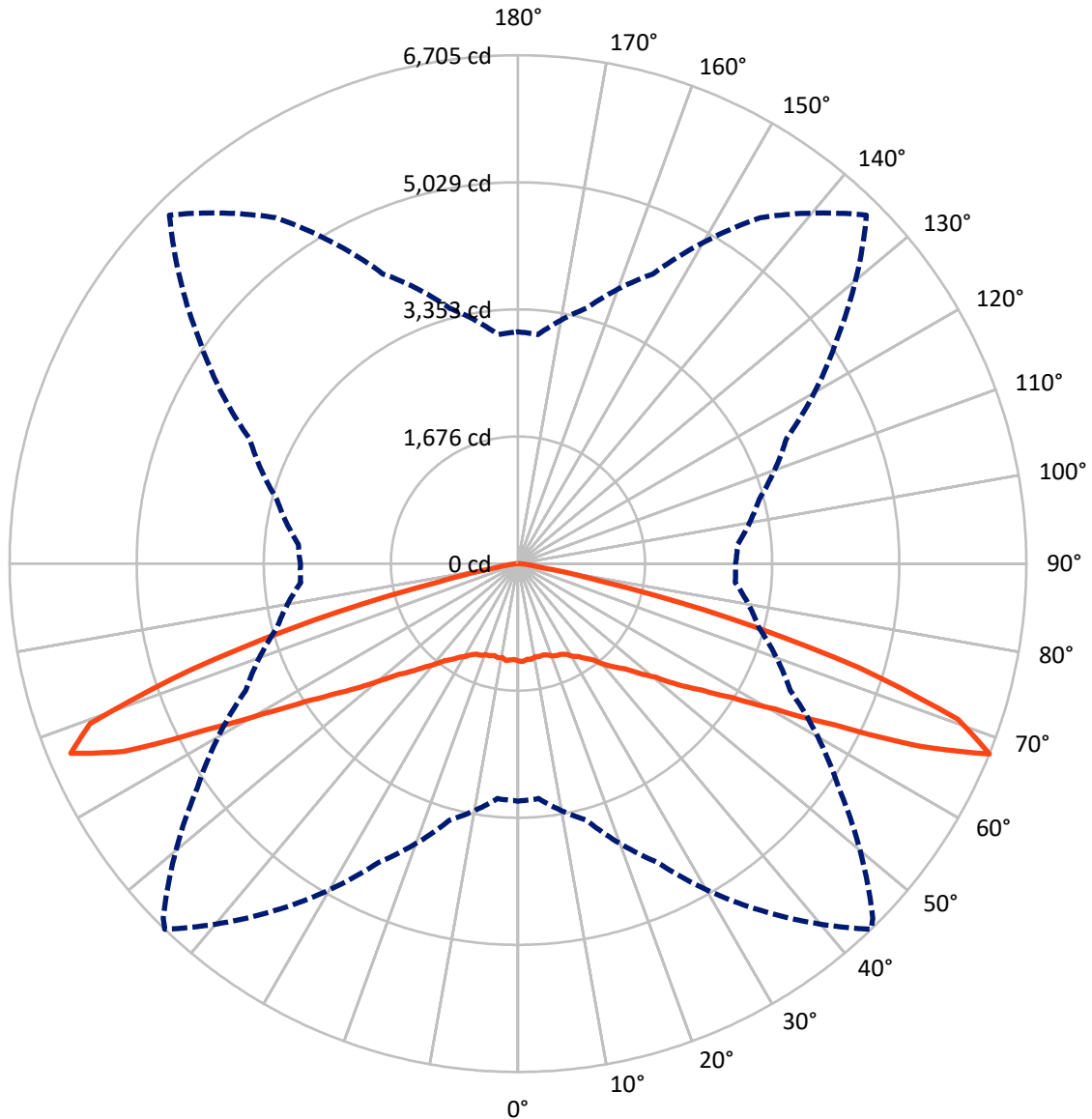
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 3.2 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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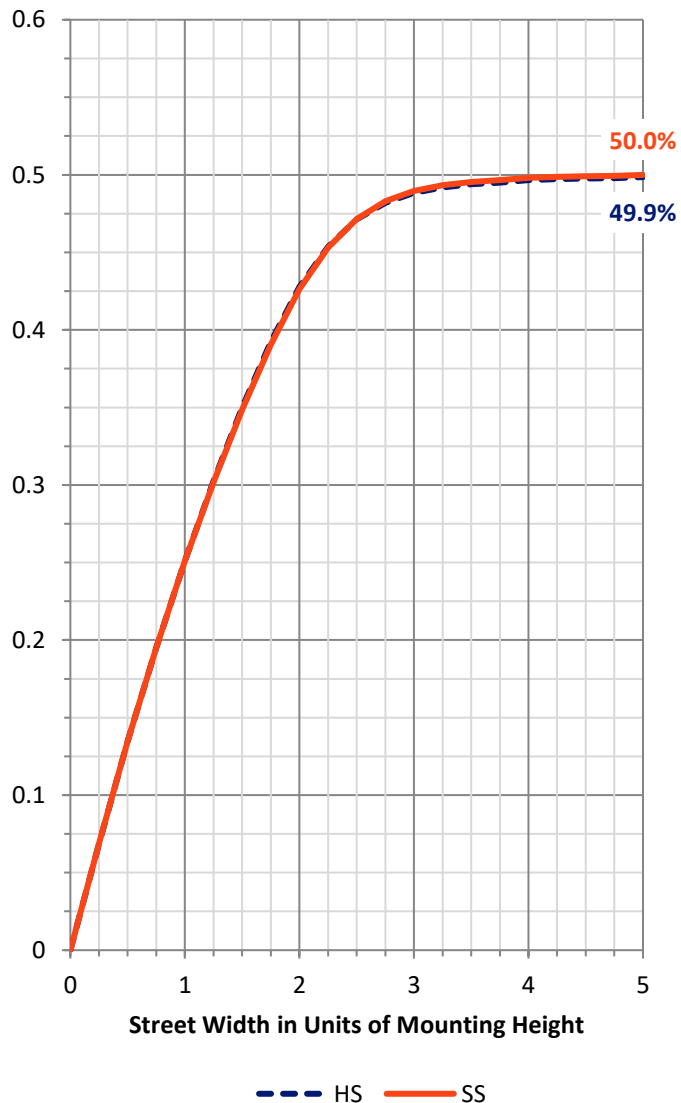
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5879.5	0.0	5879.5
	% Fixture	49.9	0.0	49.9
<b>Street Side</b>	Lumens	5909.7	0.0	5909.7
	% Fixture	50.1	0.0	50.1
<b>Total</b>	Lumens	11789.1	0.0	11789.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	121.9	1.0
10°-20°	356.0	3.0
20°-30°	605.4	5.1
30°-40°	959.9	8.1
40°-50°	1565.2	13.3
50°-60°	2673.2	22.7
60°-70°	4065.9	34.5
70°-80°	1370.5	11.6
80°-90°	71.2	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°	11789.1	100.0
0°-180°	11789.1	100.0

**Coefficient of Utilization**



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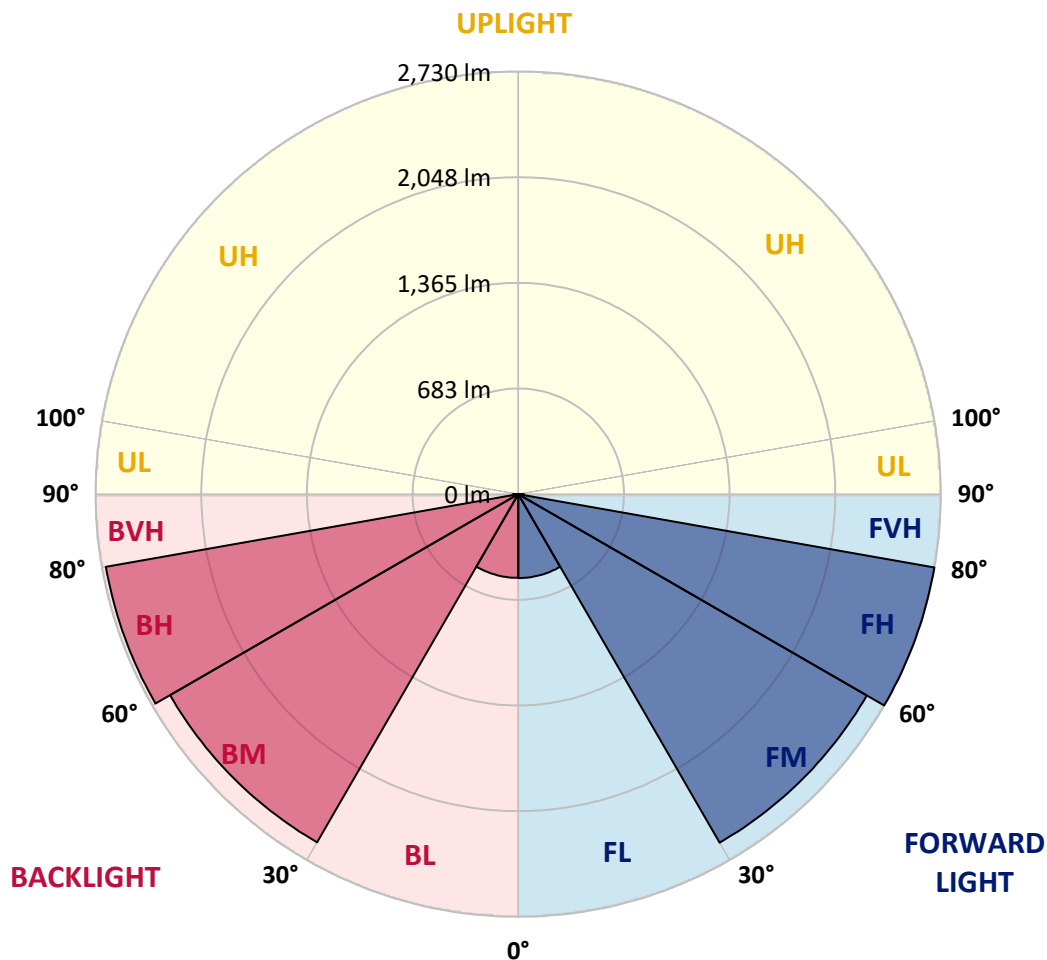
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	542.2	4.6			
FM (30°-60°)	2600.6	22.1			
FH (60°-80°)	2730.5	23.2			G2/5000
FVH (80°-90°)	36.4	0.3			G1/100
BL (0°-30°)	541.1	4.6	B2/1000		
BM (30°-60°)	2597.8	22.0	B3/5000		
BH (60°-80°)	2705.9	23.0	B4/5000		G2/5000
BVH (80°-90°)	34.8	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: 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°	1287.8	1287.8	1287.8	1287.8	1287.8	1287.8	1287.8	1287.8	1287.8	1287.8	1287.8
2.5°	1258.2	1273.0	1283.7	1282.4	1286.4	1290.4	1285.1	1293.1	1287.8	1297.2	1302.6
5°	1282.4	1278.3	1279.7	1271.6	1290.4	1268.9	1268.9	1279.7	1293.1	1277.0	1286.4
7.5°	1267.6	1264.9	1258.2	1270.3	1274.3	1274.3	1285.1	1264.9	1287.8	1293.1	1294.5
10°	1251.4	1236.6	1256.8	1268.9	1271.6	1250.1	1259.5	1264.9	1258.2	1264.9	1268.9
12.5°	1238.0	1246.0	1246.0	1246.0	1242.0	1256.8	1266.2	1264.9	1251.4	1263.5	1242.0
15°	1236.6	1232.6	1244.7	1255.5	1248.7	1251.4	1255.5	1267.6	1242.0	1247.4	1247.4
17.5°	1235.3	1240.7	1244.7	1243.4	1266.2	1266.2	1262.2	1254.1	1274.3	1263.5	1248.7
20°	1240.7	1236.6	1247.4	1251.4	1267.6	1299.9	1287.8	1281.0	1270.3	1256.8	1256.8
22.5°	1247.4	1244.7	1259.5	1277.0	1307.9	1316.0	1314.7	1306.6	1287.8	1271.6	1268.9
25°	1271.6	1247.4	1263.5	1297.2	1307.9	1324.1	1334.9	1324.1	1298.5	1302.6	1278.3
27.5°	1307.9	1303.9	1325.4	1348.3	1338.9	1353.7	1344.3	1352.3	1353.7	1333.5	1309.3
30°	1351.0	1338.9	1352.3	1396.8	1400.8	1416.9	1400.8	1379.3	1386.0	1368.5	1356.4
32.5°	1412.9	1408.9	1434.4	1464.0	1469.4	1461.3	1453.3	1465.4	1437.1	1423.7	1402.1
35°	1453.3	1470.8	1501.7	1524.6	1542.1	1534.0	1538.0	1525.9	1532.7	1504.4	1495.0
37.5°	1573.0	1566.3	1573.0	1612.1	1616.1	1612.1	1616.1	1629.5	1620.1	1595.9	1571.7
40°	1686.1	1675.3	1691.4	1735.8	1733.2	1746.6	1719.7	1734.5	1734.5	1688.8	1679.3
42.5°	1770.8	1807.2	1826.0	1862.3	1875.8	1863.7	1858.3	1861.0	1890.6	1836.8	1816.6
45°	1945.8	1944.4	2000.9	2021.1	1983.4	1980.8	1970.0	2002.3	2022.5	1991.5	1983.4
47.5°	2135.5	2144.9	2177.2	2185.3	2208.2	2166.4	2166.4	2170.5	2241.8	2169.1	2131.5
50°	2306.4	2318.5	2383.1	2446.3	2403.3	2358.9	2376.4	2397.9	2436.9	2368.3	2336.0
52.5°	2513.6	2579.6	2622.6	2656.3	2687.2	2656.3	2615.9	2640.1	2716.8	2625.3	2584.9
55°	2812.3	2864.8	2905.2	2967.1	2992.7	2950.9	2946.9	2944.2	2987.3	2890.4	2835.2
57.5°	3146.1	3124.5	3189.1	3284.7	3377.5	3337.1	3325.0	3327.7	3338.5	3201.2	3159.5
60°	3560.5	3584.7	3661.4	3744.9	3843.1	3899.6	3820.2	3774.5	3783.9	3596.8	3532.3
62.5°	3797.3	3851.2	4024.7	4311.4	4509.2	4685.4	4697.6	4400.2	4201.0	3837.7	3563.2
65°	3683.0	3674.9	4001.9	4532.0	5281.6	5794.2	5717.5	4996.3	4300.6	3723.3	3354.6
67.5°	3132.6	3111.1	3506.7	4347.7	5585.7	6705.2	6617.8	5164.5	3964.2	3294.1	2876.9
70°	2018.4	2013.0	2442.3	3314.3	4986.9	6156.2	6188.5	4690.8	3226.8	2412.7	1999.6
72.5°	733.4	777.8	1026.7	1781.6	3386.9	4709.7	4729.9	3473.0	1855.6	1115.5	822.2
75°	270.5	278.5	324.3	578.6	1543.4	2891.7	2967.1	1684.7	659.4	363.3	296.0
77.5°	156.1	157.4	173.6	215.3	457.5	1129.0	1174.7	511.3	255.7	193.8	179.0
80°	106.3	105.0	122.5	139.9	183.0	320.3	340.4	214.0	161.5	134.6	113.0
82.5°	61.9	65.9	90.2	99.6	111.7	141.3	144.0	133.2	121.1	99.6	74.0
85°	37.7	30.9	49.8	55.2	64.6	63.2	63.2	72.7	78.0	70.0	41.7
87.5°	9.4	9.4	12.1	13.5	17.5	13.5	14.8	28.3	37.7	35.0	21.5
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°	1287.8	1287.8	1287.8	1287.8	1287.8	1287.8	1287.8	1287.8	1287.8	1287.8	1287.8
2.5°	1290.4	1286.4	1289.1	1303.9	1294.5	1266.2	1273.0	1287.8	1275.6	1268.9	1267.6
5°	1285.1	1293.1	1283.7	1286.4	1295.8	1273.0	1277.0	1295.8	1287.8	1290.4	1275.6
7.5°	1286.4	1290.4	1282.4	1270.3	1270.3	1289.1	1278.3	1281.0	1268.9	1289.1	1262.2
10°	1278.3	1267.6	1258.2	1264.9	1262.2	1256.8	1252.8	1260.8	1248.7	1266.2	1247.4
12.5°	1254.1	1256.8	1254.1	1251.4	1256.8	1270.3	1248.7	1251.4	1232.6	1235.3	1244.7
15°	1244.7	1252.8	1250.1	1264.9	1271.6	1251.4	1267.6	1251.4	1236.6	1228.6	1243.4
17.5°	1248.7	1260.8	1256.8	1267.6	1255.5	1270.3	1273.0	1266.2	1248.7	1242.0	1248.7
20°	1252.8	1248.7	1254.1	1273.0	1290.4	1275.6	1275.6	1271.6	1255.5	1246.0	1246.0
22.5°	1262.2	1255.5	1263.5	1278.3	1283.7	1306.6	1286.4	1277.0	1250.1	1225.9	1248.7
25°	1281.0	1285.1	1290.4	1285.1	1314.7	1312.0	1309.3	1302.6	1260.8	1262.2	1258.2
27.5°	1317.4	1294.5	1301.2	1333.5	1337.5	1348.3	1334.9	1347.0	1302.6	1303.9	1277.0
30°	1361.8	1337.5	1359.1	1387.3	1386.0	1406.2	1399.4	1402.1	1371.2	1353.7	1317.4
32.5°	1410.2	1407.5	1421.0	1438.5	1445.2	1456.0	1454.6	1454.6	1435.8	1390.0	1396.8
35°	1464.0	1482.9	1499.0	1517.9	1520.6	1534.0	1515.2	1517.9	1499.0	1465.4	1476.1
37.5°	1570.3	1569.0	1586.5	1609.4	1612.1	1601.3	1616.1	1609.4	1583.8	1560.9	1543.4
40°	1694.1	1667.2	1683.4	1737.2	1741.2	1722.4	1721.0	1719.7	1700.9	1651.1	1640.3
42.5°	1801.8	1836.8	1834.1	1851.6	1839.5	1830.0	1863.7	1844.8	1830.0	1777.6	1768.1
45°	1940.4	1951.1	1986.1	2042.7	1984.8	1984.8	2007.7	1992.9	1984.8	1945.8	1909.4
47.5°	2112.6	2122.0	2192.0	2196.1	2158.4	2132.8	2204.1	2206.8	2173.2	2143.6	2099.2
50°	2314.5	2318.5	2381.7	2446.3	2404.6	2356.2	2428.8	2457.1	2381.7	2341.4	2286.2
52.5°	2536.5	2524.4	2576.9	2698.0	2657.6	2642.8	2720.8	2727.6	2625.3	2562.1	2576.9
55°	2792.2	2776.0	2918.7	3000.7	2975.2	2948.3	2983.2	2999.4	2917.3	2813.7	2850.0
57.5°	3123.2	3131.3	3202.6	3283.3	3325.0	3331.8	3347.9	3331.8	3248.3	3143.4	3109.7
60°	3454.2	3478.4	3617.0	3769.1	3782.5	3901.0	3879.4	3798.7	3680.3	3530.9	3537.6
62.5°	3576.7	3556.5	3779.8	4151.2	4467.5	4684.1	4588.6	4301.9	4027.4	3755.6	3775.8
65°	3330.4	3380.2	3684.3	4265.6	4951.9	5809.0	5300.4	4507.8	3953.4	3602.2	3563.2
67.5°	2870.2	2907.9	3294.1	3907.7	5125.5	6500.7	5569.5	4217.2	3486.5	3031.7	3055.9
70°	1999.6	2018.4	2396.5	3201.2	4647.8	6134.7	5024.5	3238.9	2407.3	1918.9	1945.8
72.5°	804.7	850.4	1099.4	1928.3	3431.3	4661.2	3382.9	1699.5	998.5	742.8	674.2
75°	297.4	298.7	351.2	663.4	1629.5	2929.4	1525.9	546.3	318.9	261.1	248.9
77.5°	172.2	170.9	183.0	239.5	472.3	1143.8	433.3	214.0	173.6	156.1	149.4
80°	107.6	106.3	125.1	158.8	207.2	313.5	183.0	133.2	117.1	100.9	100.9
82.5°	68.6	70.0	98.2	117.1	126.5	138.6	106.3	94.2	87.5	57.9	56.5
85°	44.4	40.4	68.6	78.0	70.0	61.9	59.2	49.8	45.8	28.3	30.9
87.5°	20.2	21.5	35.0	39.0	25.6	14.8	14.8	10.8	10.8	6.7	6.7
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)