

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: P479248

Luminaire Tested: **IFLD-S-SA3A-730-U-5MQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P479248
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3A-730-U-5MQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5MQ distribution lens
Light Source: (48) 3000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

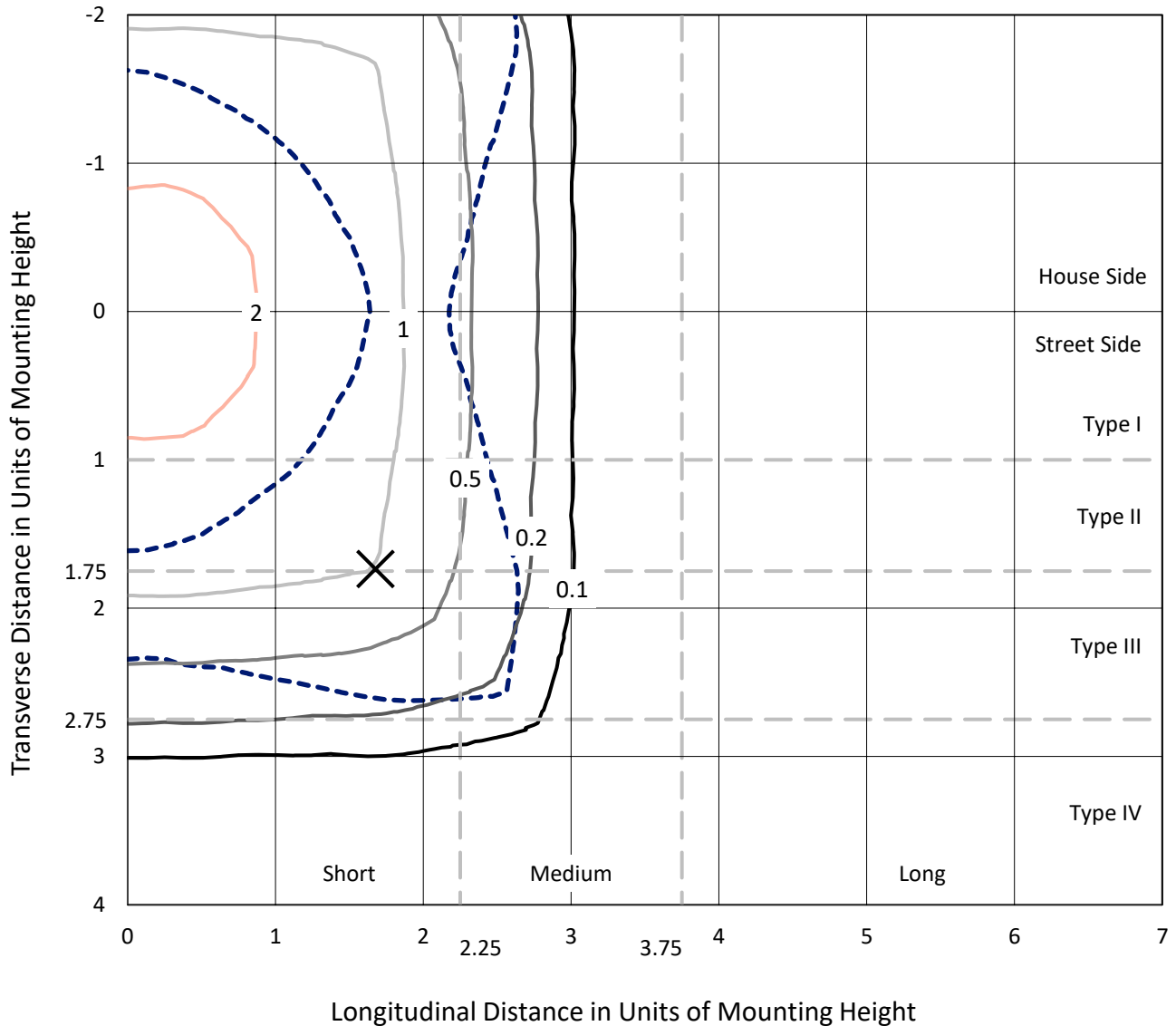
Lumens per Lamp: N/A
Luminaire Lumens: 12646.4 lumens
Efficiency: N/A
Efficacy: 133.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

Input Watts (W): 94.8
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

REPORT NUMBER: P479248
 CATALOG NUMBER: IFLD-S-SA3A-730-U-5MQ

Iso-Footcandle Lines of Horizontal Illumination

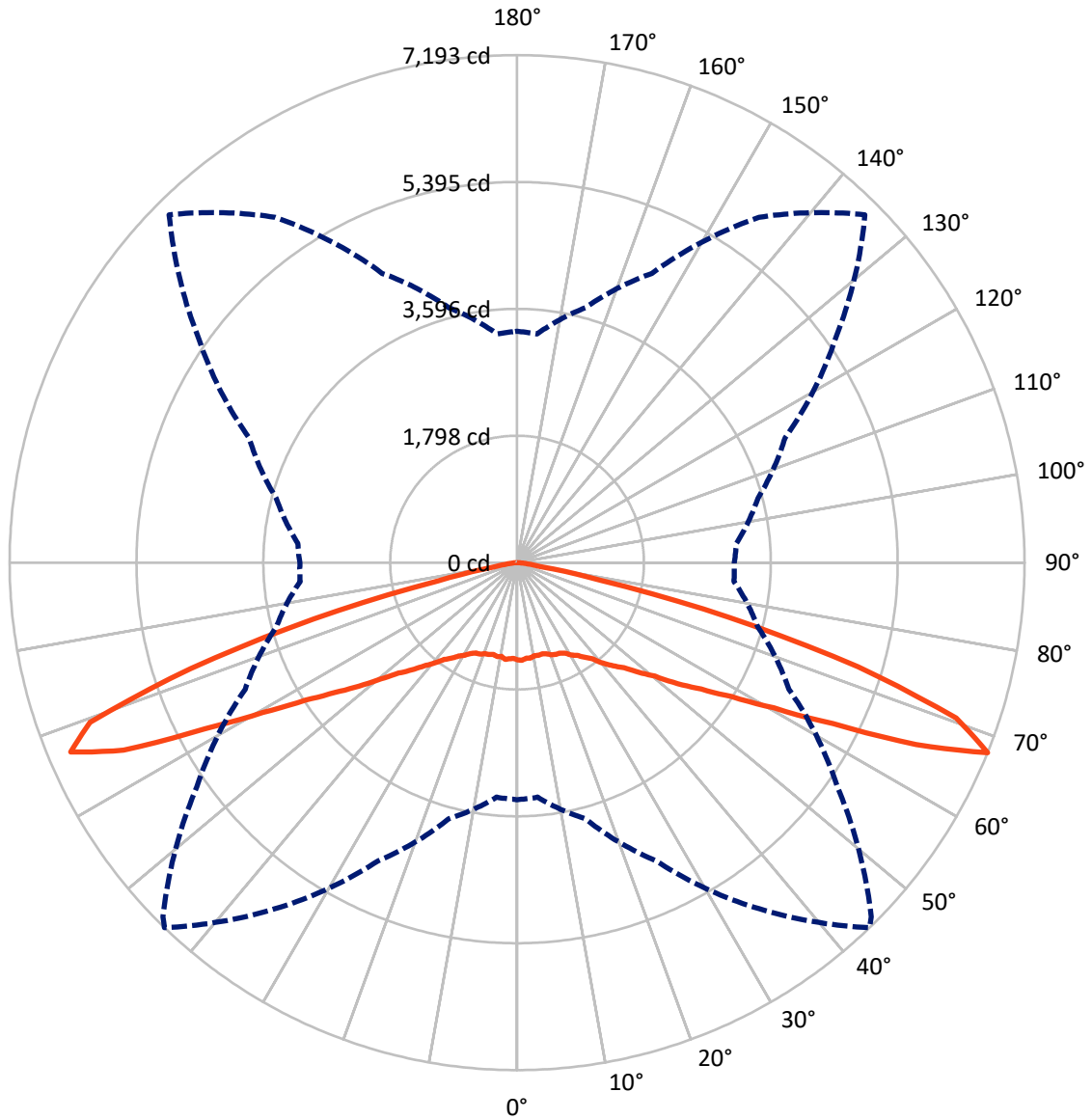
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 3.5 fc
 Type V - Short - N/A

REPORT NUMBER: P479248
CATALOG NUMBER: IFLD-S-SA3A-730-U-5MQ

Luminous Intensity Polar Plot



— Vertical Plane Through 44-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

REPORT NUMBER: P479248
 CATALOG NUMBER: IFLD-S-SA3A-730-U-5MQ

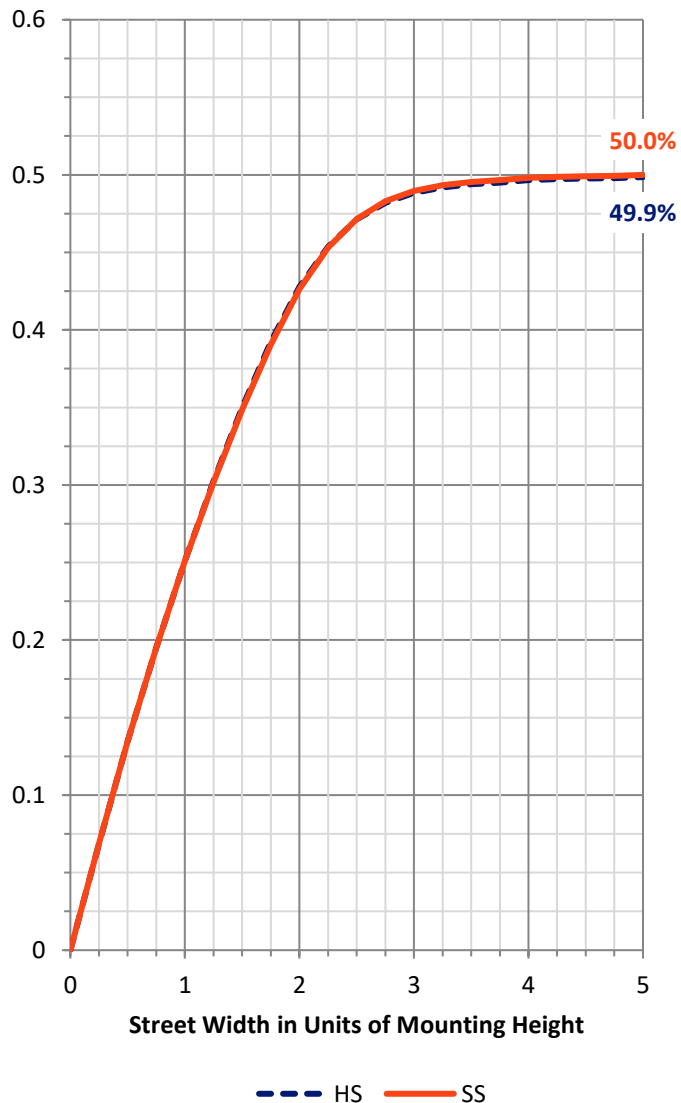
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6307.0	0.0	6307.0
	% Fixture	49.9	0.0	49.9
Street Side	Lumens	6339.4	0.0	6339.4
	% Fixture	50.1	0.0	50.1
Total	Lumens	12646.4	0.0	12646.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	130.7	1.0
10°-20°	381.9	3.0
20°-30°	649.4	5.1
30°-40°	1029.7	8.1
40°-50°	1679.0	13.3
50°-60°	2867.6	22.7
60°-70°	4361.5	34.5
70°-80°	1470.1	11.6
80°-90°	76.3	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°	12646.4	100.0
0°-180°	12646.4	100.0

Coefficient of Utilization



REPORT NUMBER: P479248

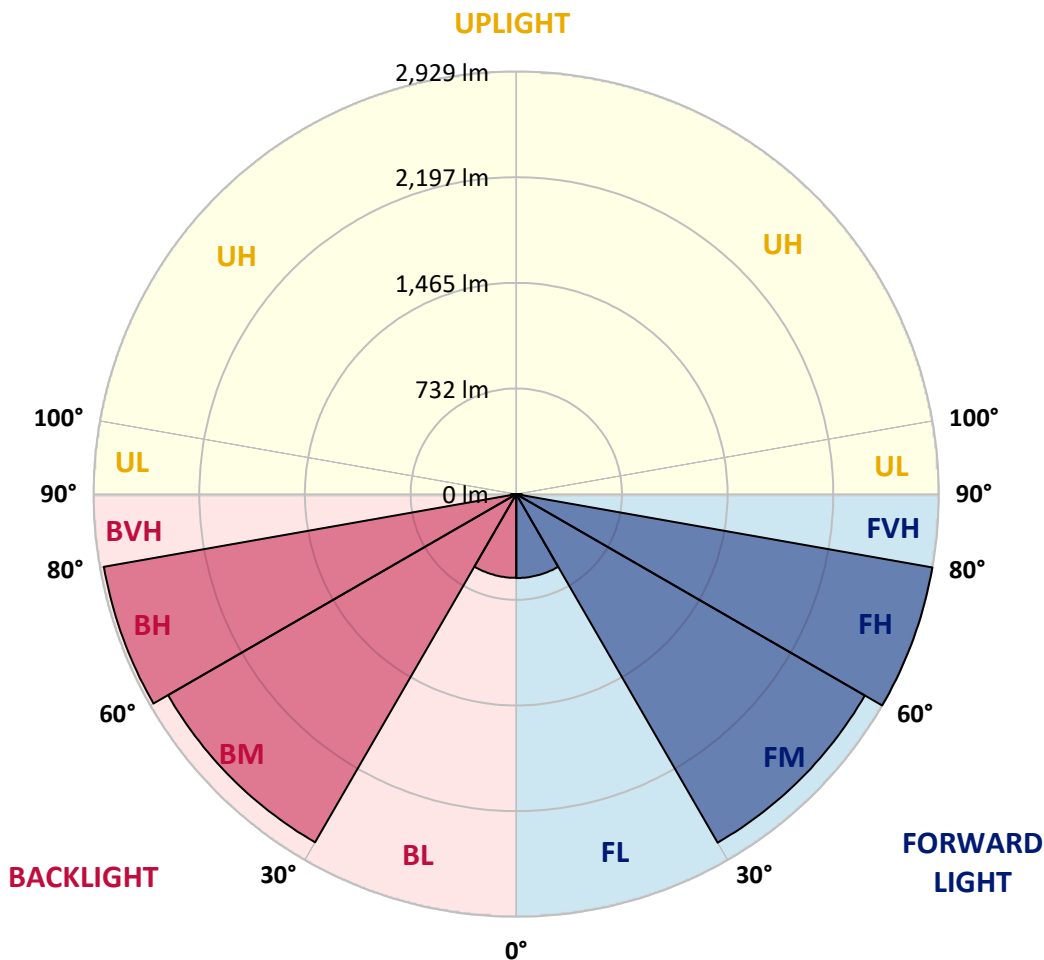
CATALOG NUMBER: IFLD-S-SA3A-730-U-5MQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	581.6	4.6			
FM (30°-60°)	2789.7	22.1			
FH (60°-80°)	2929.0	23.2			G2/5000
FVH (80°-90°)	39.0	0.3			G1/100
BL (0°-30°)	580.4	4.6	B2/1000		
BM (30°-60°)	2786.7	22.0	B3/5000		
BH (60°-80°)	2902.6	23.0	B4/5000		G2/5000
BVH (80°-90°)	37.3	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





REPORT NUMBER: P479248

CATALOG NUMBER: IFLD-S-SA3A-730-U-5MQ

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	1381.4	1381.4	1381.4	1381.4	1381.4	1381.4	1381.4	1381.4	1381.4	1381.4	1381.4
2.5°	1349.6	1365.5	1377.1	1375.6	1380.0	1384.3	1378.5	1387.2	1381.4	1391.5	1397.3
5°	1375.6	1371.3	1372.7	1364.1	1384.3	1361.2	1361.2	1372.7	1387.2	1369.9	1380.0
7.5°	1359.7	1356.9	1349.6	1362.6	1367.0	1367.0	1378.5	1356.9	1381.4	1387.2	1388.6
10°	1342.4	1326.5	1348.2	1361.2	1364.1	1341.0	1351.1	1356.9	1349.6	1356.9	1361.2
12.5°	1328.0	1336.7	1336.7	1336.7	1332.3	1348.2	1358.3	1356.9	1342.4	1355.4	1332.3
15°	1326.5	1322.2	1335.2	1346.8	1339.5	1342.4	1346.8	1359.7	1332.3	1338.1	1338.1
17.5°	1325.1	1330.9	1335.2	1333.8	1358.3	1358.3	1354.0	1345.3	1367.0	1355.4	1339.5
20°	1330.9	1326.5	1338.1	1342.4	1359.7	1394.4	1381.4	1374.2	1362.6	1348.2	1348.2
22.5°	1338.1	1335.2	1351.1	1369.9	1403.1	1411.7	1410.3	1401.6	1381.4	1364.1	1361.2
25°	1364.1	1338.1	1355.4	1391.5	1403.1	1420.4	1431.9	1420.4	1392.9	1397.3	1371.3
27.5°	1403.1	1398.7	1421.8	1446.4	1436.3	1452.1	1442.0	1450.7	1452.1	1430.5	1404.5
30°	1449.2	1436.3	1450.7	1498.3	1502.7	1520.0	1502.7	1479.6	1486.8	1468.0	1455.0
32.5°	1515.6	1511.3	1538.7	1570.5	1576.3	1567.6	1558.9	1571.9	1541.6	1527.2	1504.1
35°	1558.9	1577.7	1610.9	1635.5	1654.2	1645.6	1649.9	1636.9	1644.1	1613.8	1603.7
37.5°	1687.4	1680.2	1687.4	1729.3	1733.6	1729.3	1733.6	1748.0	1737.9	1712.0	1686.0
40°	1808.7	1797.1	1814.4	1862.1	1859.2	1873.6	1844.8	1860.6	1860.6	1811.6	1801.4
42.5°	1899.6	1938.6	1958.8	1997.8	2012.2	1999.2	1993.4	1996.3	2028.1	1970.3	1948.7
45°	2087.3	2085.8	2146.4	2168.1	2127.7	2124.8	2113.2	2147.9	2169.5	2136.3	2127.7
47.5°	2290.8	2300.9	2335.5	2344.2	2368.7	2324.0	2324.0	2328.3	2404.8	2326.9	2286.5
50°	2474.1	2487.1	2556.4	2624.2	2578.0	2530.4	2549.2	2572.3	2614.1	2540.5	2505.9
52.5°	2696.4	2767.1	2813.3	2849.4	2882.6	2849.4	2806.1	2832.1	2914.4	2816.2	2772.9
55°	3016.9	3073.1	3116.5	3182.8	3210.3	3165.5	3161.2	3158.3	3204.5	3100.6	3041.4
57.5°	3374.8	3351.7	3421.0	3523.5	3623.1	3579.8	3566.8	3569.7	3581.2	3434.0	3389.3
60°	3819.4	3845.4	3927.7	4017.2	4122.5	4183.2	4098.0	4048.9	4059.0	3858.4	3789.1
62.5°	4073.5	4131.2	4317.4	4624.9	4837.1	5026.2	5039.2	4720.1	4506.5	4116.8	3822.3
65°	3950.8	3942.1	4292.9	4861.6	5665.6	6215.6	6133.3	5359.6	4613.3	3994.1	3598.6
67.5°	3360.4	3337.3	3761.7	4663.8	5991.8	7192.8	7099.0	5540.0	4252.5	3533.6	3086.1
70°	2165.2	2159.4	2619.9	3555.3	5349.5	6603.9	6638.5	5031.9	3461.4	2588.1	2145.0
72.5°	786.7	834.3	1101.4	1911.2	3633.2	5052.1	5073.8	3725.6	1990.5	1196.6	882.0
75°	290.1	298.8	347.9	620.7	1655.7	3102.0	3182.8	1807.2	707.3	389.7	317.6
77.5°	167.4	168.9	186.2	231.0	490.8	1211.1	1260.1	548.5	274.3	207.9	192.0
80°	114.0	112.6	131.4	150.1	196.3	343.5	365.2	229.5	173.2	144.3	121.3
82.5°	66.4	70.7	96.7	106.8	119.8	151.6	154.5	142.9	129.9	106.8	79.4
85°	40.4	33.2	53.4	59.2	69.3	67.8	67.8	77.9	83.7	75.1	44.7
87.5°	10.1	10.1	13.0	14.4	18.8	14.4	15.9	30.3	40.4	37.5	23.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P479248
 CATALOG NUMBER: IFLD-S-SA3A-730-U-5MQ

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1381.4	1381.4	1381.4	1381.4	1381.4	1381.4	1381.4	1381.4	1381.4	1381.4	1381.4
2.5°	1384.3	1380.0	1382.8	1398.7	1388.6	1358.3	1365.5	1381.4	1368.4	1361.2	1359.7
5°	1378.5	1387.2	1377.1	1380.0	1390.1	1365.5	1369.9	1390.1	1381.4	1384.3	1368.4
7.5°	1380.0	1384.3	1375.6	1362.6	1362.6	1382.8	1371.3	1374.2	1361.2	1382.8	1354.0
10°	1371.3	1359.7	1349.6	1356.9	1354.0	1348.2	1343.9	1352.5	1339.5	1358.3	1338.1
12.5°	1345.3	1348.2	1345.3	1342.4	1348.2	1362.6	1339.5	1342.4	1322.2	1325.1	1335.2
15°	1335.2	1343.9	1341.0	1356.9	1364.1	1342.4	1359.7	1342.4	1326.5	1317.9	1333.8
17.5°	1339.5	1352.5	1348.2	1359.7	1346.8	1362.6	1365.5	1358.3	1339.5	1332.3	1339.5
20°	1343.9	1339.5	1345.3	1365.5	1384.3	1368.4	1368.4	1364.1	1346.8	1336.7	1336.7
22.5°	1354.0	1346.8	1355.4	1371.3	1377.1	1401.6	1380.0	1369.9	1341.0	1315.0	1339.5
25°	1374.2	1378.5	1384.3	1378.5	1410.3	1407.4	1404.5	1397.3	1352.5	1354.0	1349.6
27.5°	1413.2	1388.6	1395.8	1430.5	1434.8	1446.4	1431.9	1444.9	1397.3	1398.7	1369.9
30°	1460.8	1434.8	1457.9	1488.2	1486.8	1508.4	1501.2	1504.1	1470.9	1452.1	1413.2
32.5°	1512.8	1509.9	1524.3	1543.1	1550.3	1561.8	1560.4	1560.4	1540.2	1491.1	1498.3
35°	1570.5	1590.7	1608.0	1628.2	1631.1	1645.6	1625.3	1628.2	1608.0	1571.9	1583.5
37.5°	1684.5	1683.1	1701.9	1726.4	1729.3	1717.7	1733.6	1726.4	1699.0	1674.4	1655.7
40°	1817.3	1788.5	1805.8	1863.5	1867.8	1847.6	1846.2	1844.8	1824.5	1771.1	1759.6
42.5°	1932.8	1970.3	1967.4	1986.2	1973.2	1963.1	1999.2	1979.0	1963.1	1906.8	1896.7
45°	2081.5	2093.0	2130.6	2191.2	2129.1	2129.1	2153.7	2137.8	2129.1	2087.3	2048.3
47.5°	2266.2	2276.4	2351.4	2355.7	2315.3	2287.9	2364.4	2367.3	2331.2	2299.4	2251.8
50°	2482.8	2487.1	2554.9	2624.2	2579.5	2527.5	2605.5	2635.8	2554.9	2511.6	2452.5
52.5°	2720.9	2707.9	2764.2	2894.2	2850.9	2835.0	2918.7	2925.9	2816.2	2748.4	2764.2
55°	2995.2	2977.9	3130.9	3218.9	3191.5	3162.6	3200.2	3217.5	3129.4	3018.3	3057.3
57.5°	3350.3	3359.0	3435.5	3522.1	3566.8	3574.0	3591.4	3574.0	3484.5	3371.9	3335.9
60°	3705.4	3731.4	3880.0	4043.2	4057.6	4184.6	4161.5	4074.9	3947.9	3787.7	3794.9
62.5°	3836.7	3815.1	4054.7	4453.1	4792.3	5024.7	4922.2	4614.8	4320.3	4028.7	4050.4
65°	3572.6	3626.0	3952.2	4575.8	5312.0	6231.5	5685.8	4835.6	4240.9	3864.2	3822.3
67.5°	3078.9	3119.3	3533.6	4191.8	5498.2	6973.4	5974.5	4523.8	3740.0	3252.1	3278.1
70°	2145.0	2165.2	2570.8	3434.0	4985.7	6580.8	5389.9	3474.4	2582.4	2058.4	2087.3
72.5°	863.2	912.3	1179.3	2068.5	3680.8	5000.2	3628.9	1823.1	1071.1	796.8	723.2
75°	319.0	320.5	376.7	711.6	1748.0	3142.4	1636.9	586.0	342.1	280.0	267.0
77.5°	184.8	183.3	196.3	256.9	506.7	1226.9	464.8	229.5	186.2	167.4	160.2
80°	115.5	114.0	134.2	170.3	222.3	336.3	196.3	142.9	125.6	108.3	108.3
82.5°	73.6	75.1	105.4	125.6	135.7	148.7	114.0	101.0	93.8	62.1	60.6
85°	47.6	43.3	73.6	83.7	75.1	66.4	63.5	53.4	49.1	30.3	33.2
87.5°	21.7	23.1	37.5	41.9	27.4	15.9	15.9	11.5	11.5	7.2	7.2
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)