

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: P479245

Luminaire Tested: **IFLD-S-SA2C-730-U-5MQ**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P479245  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA2C-730-U-5MQ  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5MQ distribution lens  
Light Source: (32) 3000K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

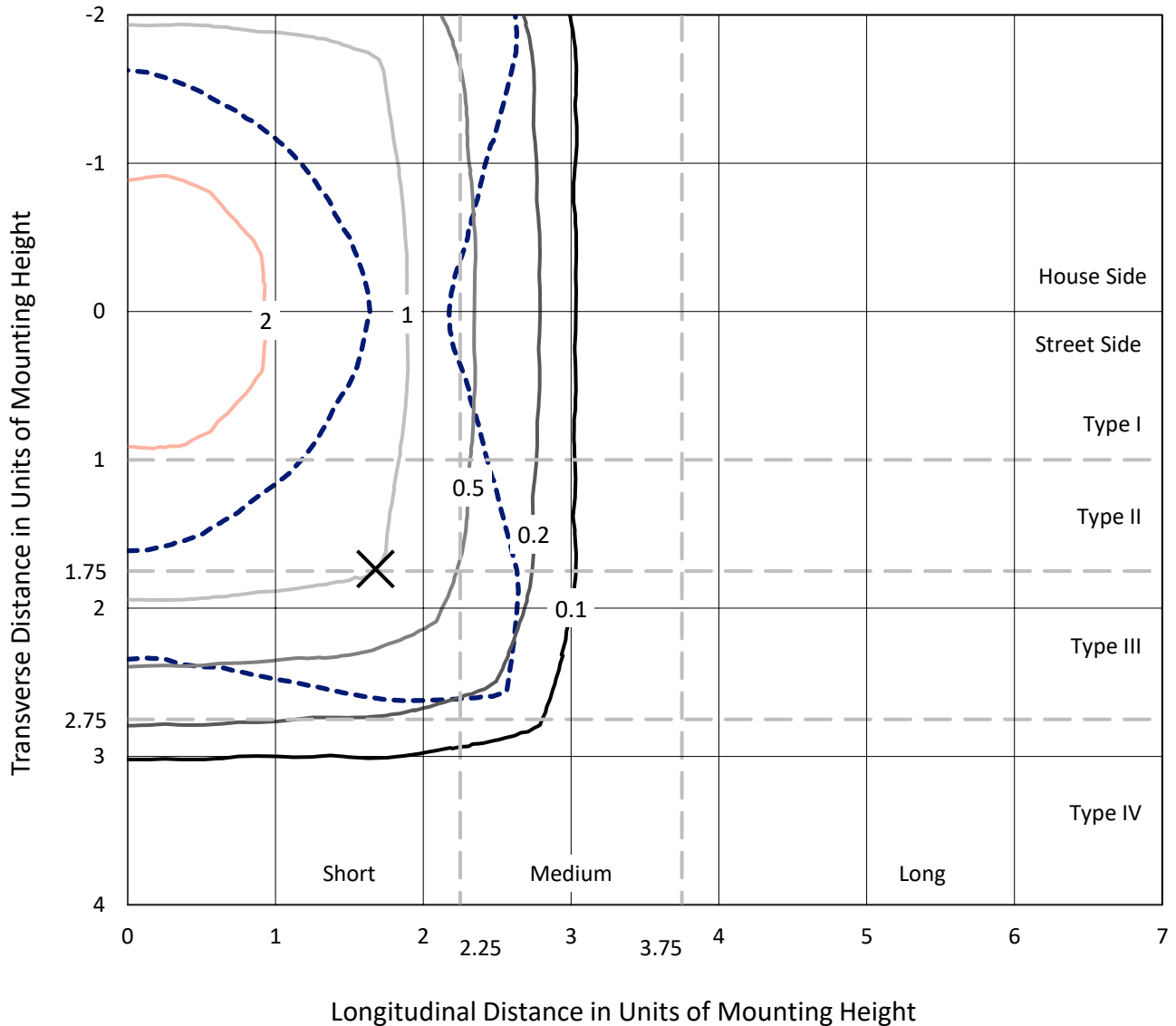
Lumens per Lamp: N/A  
Luminaire Lumens: 13064.5 lumens  
Efficiency: N/A  
Efficacy: 120.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G2

Input Watts (W): 108.2  
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

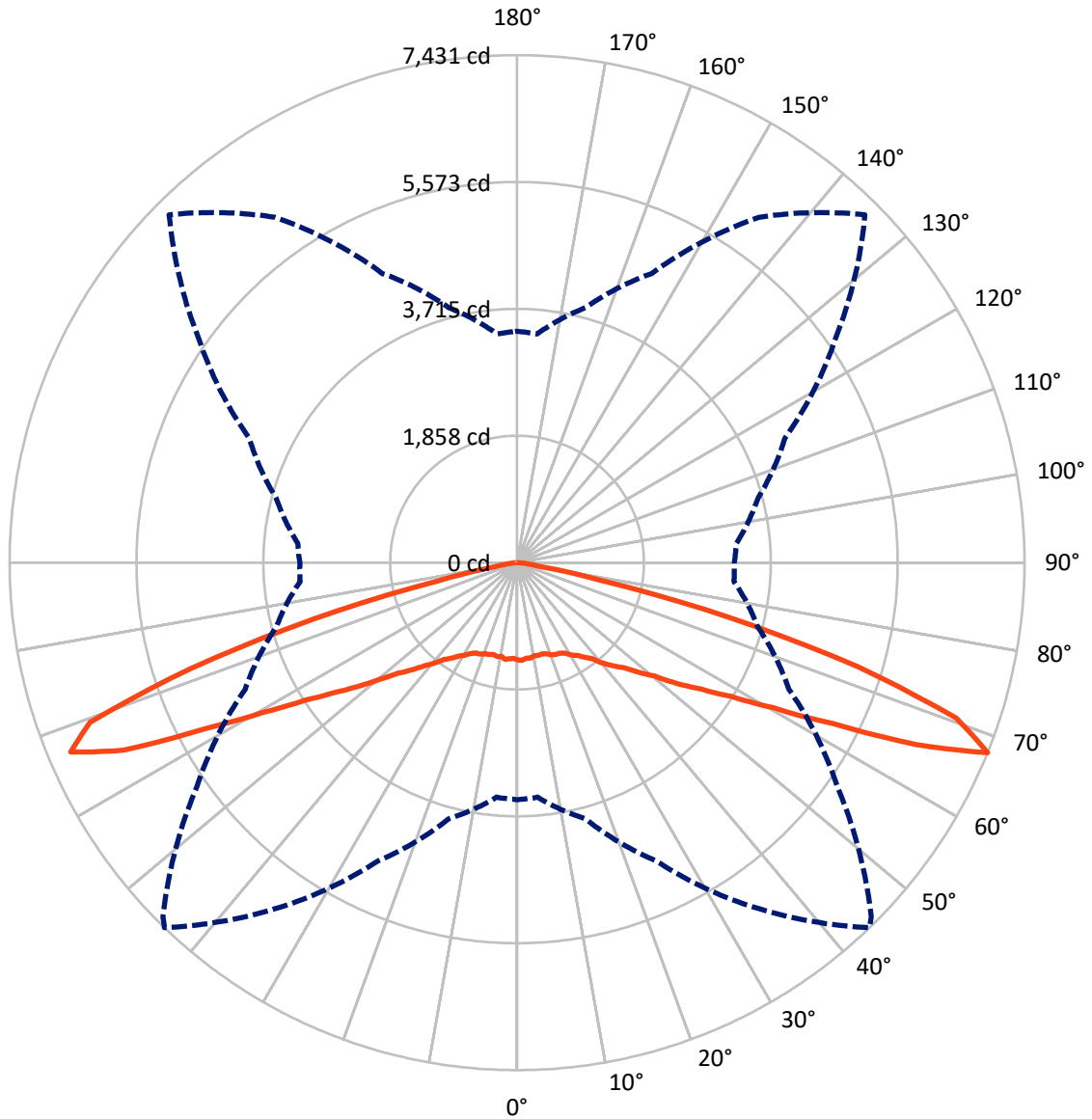
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 3.6 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	6515.5	0.0	6515.5
	% Fixture	49.9	0.0	49.9
<b>Street Side</b>	Lumens	6549.0	0.0	6549.0
	% Fixture	50.1	0.0	50.1
<b>Total</b>	Lumens	13064.5	0.0	13064.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	135.0	1.0
10°-20°	394.5	3.0
20°-30°	670.9	5.1
30°-40°	1063.8	8.1
40°-50°	1734.6	13.3
50°-60°	2962.4	22.7
60°-70°	4505.7	34.5
70°-80°	1518.7	11.6
80°-90°	78.8	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°	13064.5	100.0
0°-180°	13064.5	100.0

**Coefficient of Utilization**



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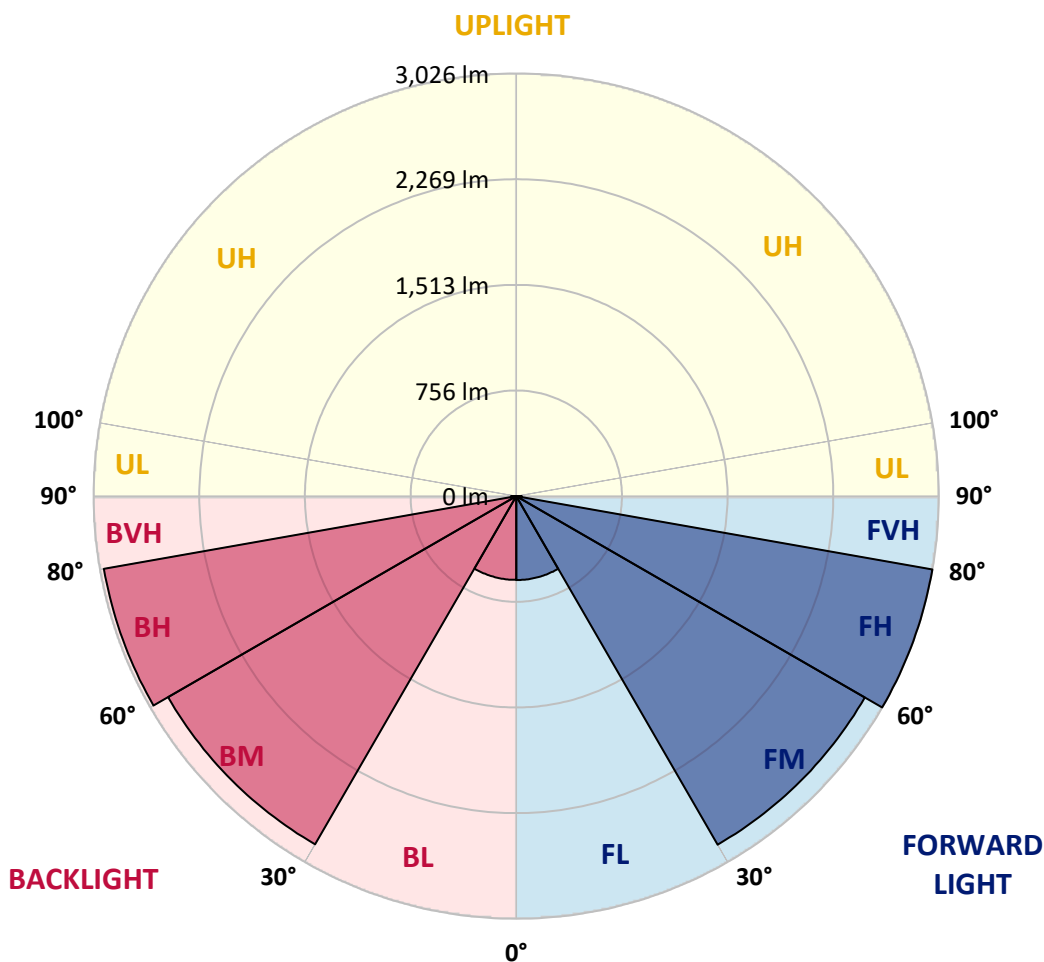
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	600.9	4.6			
FM (30°-60°)	2881.9	22.1			
FH (60°-80°)	3025.9	23.2			G2/5000
FVH (80°-90°)	40.3	0.3			G1/100
BL (0°-30°)	599.6	4.6	B2/1000		
BM (30°-60°)	2878.8	22.0	B3/5000		
BH (60°-80°)	2998.6	23.0	B4/5000		G2/5000
BVH (80°-90°)	38.5	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°	1427.1	1427.1	1427.1	1427.1	1427.1	1427.1	1427.1	1427.1	1427.1	1427.1	1427.1
2.5°	1394.3	1410.7	1422.6	1421.1	1425.6	1430.1	1424.1	1433.0	1427.1	1437.5	1443.5
5°	1421.1	1416.6	1418.1	1409.2	1430.1	1406.2	1406.2	1418.1	1433.0	1415.1	1425.6
7.5°	1404.7	1401.7	1394.3	1407.7	1412.2	1412.2	1424.1	1401.7	1427.1	1433.0	1434.5
10°	1386.8	1370.4	1392.8	1406.2	1409.2	1385.3	1395.8	1401.7	1394.3	1401.7	1406.2
12.5°	1371.9	1380.8	1380.8	1380.8	1376.4	1392.8	1403.2	1401.7	1386.8	1400.2	1376.4
15°	1370.4	1365.9	1379.4	1391.3	1383.8	1386.8	1391.3	1404.7	1376.4	1382.3	1382.3
17.5°	1368.9	1374.9	1379.4	1377.9	1403.2	1403.2	1398.7	1389.8	1412.2	1400.2	1383.8
20°	1374.9	1370.4	1382.3	1386.8	1404.7	1440.5	1427.1	1419.6	1407.7	1392.8	1392.8
22.5°	1382.3	1379.4	1395.8	1415.1	1449.4	1458.4	1456.9	1447.9	1427.1	1409.2	1406.2
25°	1409.2	1382.3	1400.2	1437.5	1449.4	1467.3	1479.3	1467.3	1439.0	1443.5	1416.6
27.5°	1449.4	1445.0	1468.8	1494.2	1483.7	1500.1	1489.7	1498.6	1500.1	1477.8	1450.9
30°	1497.2	1483.7	1498.6	1547.9	1552.3	1570.2	1552.3	1528.5	1535.9	1516.5	1503.1
32.5°	1565.8	1561.3	1589.6	1622.4	1628.4	1619.4	1610.5	1623.9	1592.6	1577.7	1553.8
35°	1610.5	1629.9	1664.2	1689.5	1708.9	1700.0	1704.4	1691.0	1698.5	1667.2	1656.7
37.5°	1743.2	1735.7	1743.2	1786.4	1790.9	1786.4	1790.9	1805.8	1795.4	1768.6	1741.7
40°	1868.5	1856.5	1874.4	1923.6	1920.7	1935.6	1905.7	1922.1	1922.1	1871.4	1861.0
42.5°	1962.4	2002.7	2023.5	2063.8	2078.7	2065.3	2059.3	2062.3	2095.1	2035.5	2013.1
45°	2156.3	2154.8	2217.4	2239.8	2198.0	2195.0	2183.1	2218.9	2241.3	2207.0	2198.0
47.5°	2366.5	2377.0	2412.7	2421.7	2447.0	2400.8	2400.8	2405.3	2484.3	2403.8	2362.0
50°	2555.9	2569.3	2640.9	2711.0	2663.3	2614.1	2633.4	2657.3	2700.5	2624.5	2588.7
52.5°	2785.5	2858.6	2906.3	2943.6	2977.9	2943.6	2898.9	2925.7	3010.7	2909.3	2864.6
55°	3116.6	3174.7	3219.5	3288.1	3316.4	3270.2	3265.7	3262.7	3310.4	3203.1	3141.9
57.5°	3486.4	3462.5	3534.1	3640.0	3742.9	3698.2	3684.7	3687.7	3699.6	3547.5	3501.3
60°	3945.7	3972.5	4057.5	4150.0	4258.8	4321.5	4233.5	4182.8	4193.2	3986.0	3914.4
62.5°	4208.1	4267.8	4460.2	4777.8	4997.0	5192.3	5205.8	4876.2	4655.5	4252.9	3948.7
65°	4081.4	4072.4	4434.8	5022.3	5852.9	6421.1	6336.1	5536.8	4765.9	4126.1	3717.5
67.5°	3471.5	3447.6	3886.0	4818.0	6189.9	7430.6	7333.7	5723.2	4393.1	3650.4	3188.2
70°	2236.8	2230.8	2706.5	3672.8	5526.4	6822.2	6858.0	5198.3	3575.9	2673.7	2215.9
72.5°	812.7	861.9	1137.8	1974.3	3753.3	5219.2	5241.5	3848.8	2056.4	1236.2	911.1
75°	299.7	308.7	359.4	641.2	1710.4	3204.6	3288.1	1867.0	730.7	402.6	328.1
77.5°	173.0	174.5	192.4	238.6	507.0	1251.1	1301.8	566.7	283.3	214.7	198.3
80°	117.8	116.3	135.7	155.1	202.8	354.9	377.3	237.1	178.9	149.1	125.3
82.5°	68.6	73.1	99.9	110.3	123.8	156.6	159.6	147.6	134.2	110.3	82.0
85°	41.8	34.3	55.2	61.1	71.6	70.1	70.1	80.5	86.5	77.5	46.2
87.5°	10.4	10.4	13.4	14.9	19.4	14.9	16.4	31.3	41.8	38.8	23.9
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°	1427.1	1427.1	1427.1	1427.1	1427.1	1427.1	1427.1	1427.1	1427.1	1427.1	1427.1
2.5°	1430.1	1425.6	1428.6	1445.0	1434.5	1403.2	1410.7	1427.1	1413.7	1406.2	1404.7
5°	1424.1	1433.0	1422.6	1425.6	1436.0	1410.7	1415.1	1436.0	1427.1	1430.1	1413.7
7.5°	1425.6	1430.1	1421.1	1407.7	1407.7	1428.6	1416.6	1419.6	1406.2	1428.6	1398.7
10°	1416.6	1404.7	1394.3	1401.7	1398.7	1392.8	1388.3	1397.2	1383.8	1403.2	1382.3
12.5°	1389.8	1392.8	1389.8	1386.8	1392.8	1407.7	1383.8	1386.8	1365.9	1368.9	1379.4
15°	1379.4	1388.3	1385.3	1401.7	1409.2	1386.8	1404.7	1386.8	1370.4	1361.5	1377.9
17.5°	1383.8	1397.2	1392.8	1404.7	1391.3	1407.7	1410.7	1403.2	1383.8	1376.4	1383.8
20°	1388.3	1383.8	1389.8	1410.7	1430.1	1413.7	1413.7	1409.2	1391.3	1380.8	1380.8
22.5°	1398.7	1391.3	1400.2	1416.6	1422.6	1447.9	1425.6	1415.1	1385.3	1358.5	1383.8
25°	1419.6	1424.1	1430.1	1424.1	1456.9	1453.9	1450.9	1443.5	1397.2	1398.7	1394.3
27.5°	1459.9	1434.5	1442.0	1477.8	1482.2	1494.2	1479.3	1492.7	1443.5	1445.0	1415.1
30°	1509.1	1482.2	1506.1	1537.4	1535.9	1558.3	1550.8	1553.8	1519.5	1500.1	1459.9
32.5°	1562.8	1559.8	1574.7	1594.1	1601.5	1613.5	1612.0	1612.0	1591.1	1540.4	1547.9
35°	1622.4	1643.3	1661.2	1682.1	1685.0	1700.0	1679.1	1682.1	1661.2	1623.9	1635.8
37.5°	1740.2	1738.7	1758.1	1783.5	1786.4	1774.5	1790.9	1783.5	1755.1	1729.8	1710.4
40°	1877.4	1847.6	1865.5	1925.1	1929.6	1908.7	1907.2	1905.7	1884.9	1829.7	1817.8
42.5°	1996.7	2035.5	2032.5	2051.9	2038.5	2028.0	2065.3	2044.4	2028.0	1969.9	1959.4
45°	2150.3	2162.2	2201.0	2263.6	2199.5	2199.5	2224.9	2208.5	2199.5	2156.3	2116.0
47.5°	2341.2	2351.6	2429.2	2433.6	2391.9	2363.5	2442.6	2445.6	2408.3	2375.5	2326.3
50°	2564.9	2569.3	2639.4	2711.0	2664.8	2611.1	2691.6	2722.9	2639.4	2594.7	2533.5
52.5°	2810.9	2797.5	2855.6	2989.8	2945.1	2928.7	3015.2	3022.6	2909.3	2839.2	2855.6
55°	3094.2	3076.3	3234.4	3325.4	3297.0	3267.2	3306.0	3323.9	3232.9	3118.1	3158.3
57.5°	3461.1	3470.0	3549.0	3638.5	3684.7	3692.2	3710.1	3692.2	3599.7	3483.4	3446.1
60°	3827.9	3854.7	4008.3	4176.8	4191.7	4323.0	4299.1	4209.6	4078.4	3912.9	3920.3
62.5°	3963.6	3941.2	4188.8	4600.3	4950.8	5190.8	5085.0	4767.3	4463.1	4161.9	4184.3
65°	3690.7	3745.9	4082.9	4727.1	5487.6	6437.5	5873.8	4995.5	4381.1	3991.9	3948.7
67.5°	3180.7	3222.5	3650.4	4330.4	5680.0	7203.9	6172.0	4673.4	3863.7	3359.7	3386.5
70°	2215.9	2236.8	2655.8	3547.5	5150.6	6798.3	5568.1	3589.3	2667.7	2126.4	2156.3
72.5°	891.7	942.4	1218.3	2136.9	3802.5	5165.5	3748.9	1883.4	1106.5	823.1	747.1
75°	329.6	331.0	389.2	735.2	1805.8	3246.3	1691.0	605.4	353.4	289.3	275.9
77.5°	190.9	189.4	202.8	265.4	523.4	1267.5	480.2	237.1	192.4	173.0	165.5
80°	119.3	117.8	138.7	176.0	229.6	347.4	202.8	147.6	129.7	111.8	111.8
82.5°	76.1	77.5	108.9	129.7	140.2	153.6	117.8	104.4	96.9	64.1	62.6
85°	49.2	44.7	76.1	86.5	77.5	68.6	65.6	55.2	50.7	31.3	34.3
87.5°	22.4	23.9	38.8	43.2	28.3	16.4	16.4	11.9	11.9	7.5	7.5
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)