

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: P479206

Luminaire Tested: **IFLD-S-SA2C-727-U-5MQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P479206
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2C-727-U-5MQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5MQ distribution lens
Light Source: (32) 2700K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

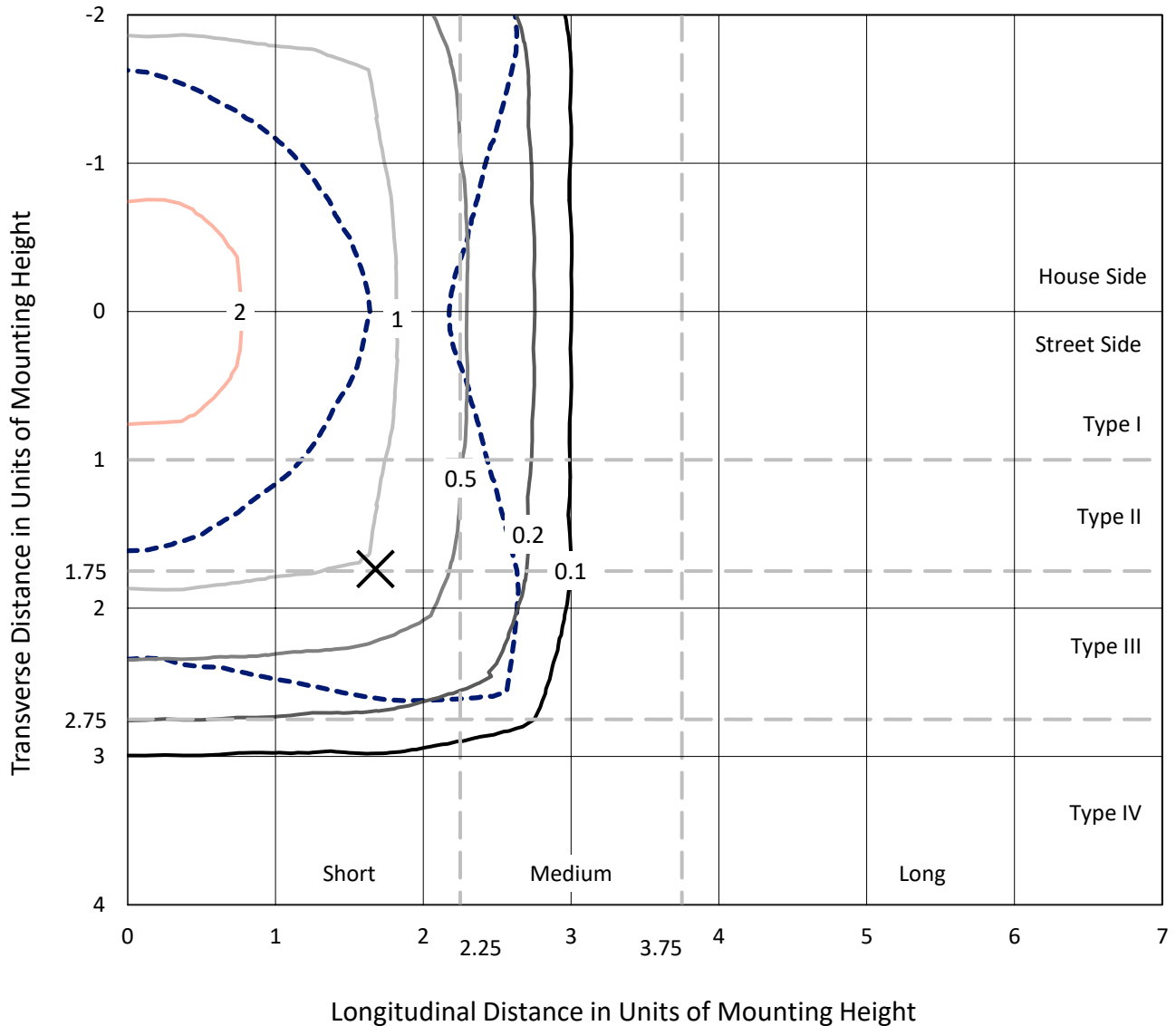
Lumens per Lamp: N/A
Luminaire Lumens: 11998.5 lumens
Efficiency: N/A
Efficacy: 110.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

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

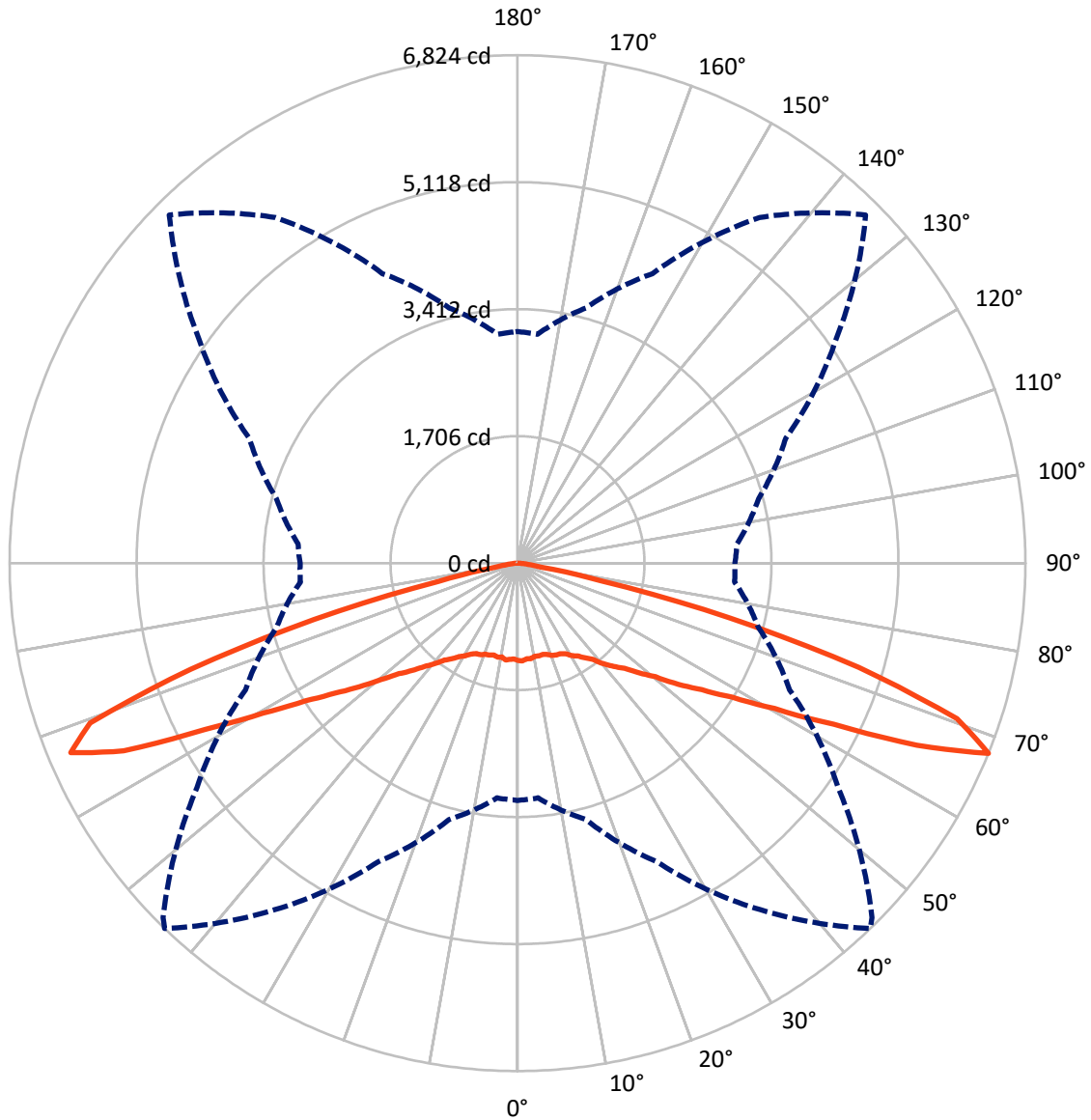
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 3.3 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
House Side	Lumens	5983.9	0.0	5983.9
	% Fixture	49.9	0.0	49.9
Street Side	Lumens	6014.6	0.0	6014.6
	% Fixture	50.1	0.0	50.1
Total	Lumens	11998.5	0.0	11998.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	124.0	1.0
10°-20°	362.3	3.0
20°-30°	616.2	5.1
30°-40°	977.0	8.1
40°-50°	1593.0	13.3
50°-60°	2720.7	22.7
60°-70°	4138.1	34.5
70°-80°	1394.8	11.6
80°-90°	72.4	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°	11998.5	100.0
0°-180°	11998.5	100.0

Coefficient of Utilization



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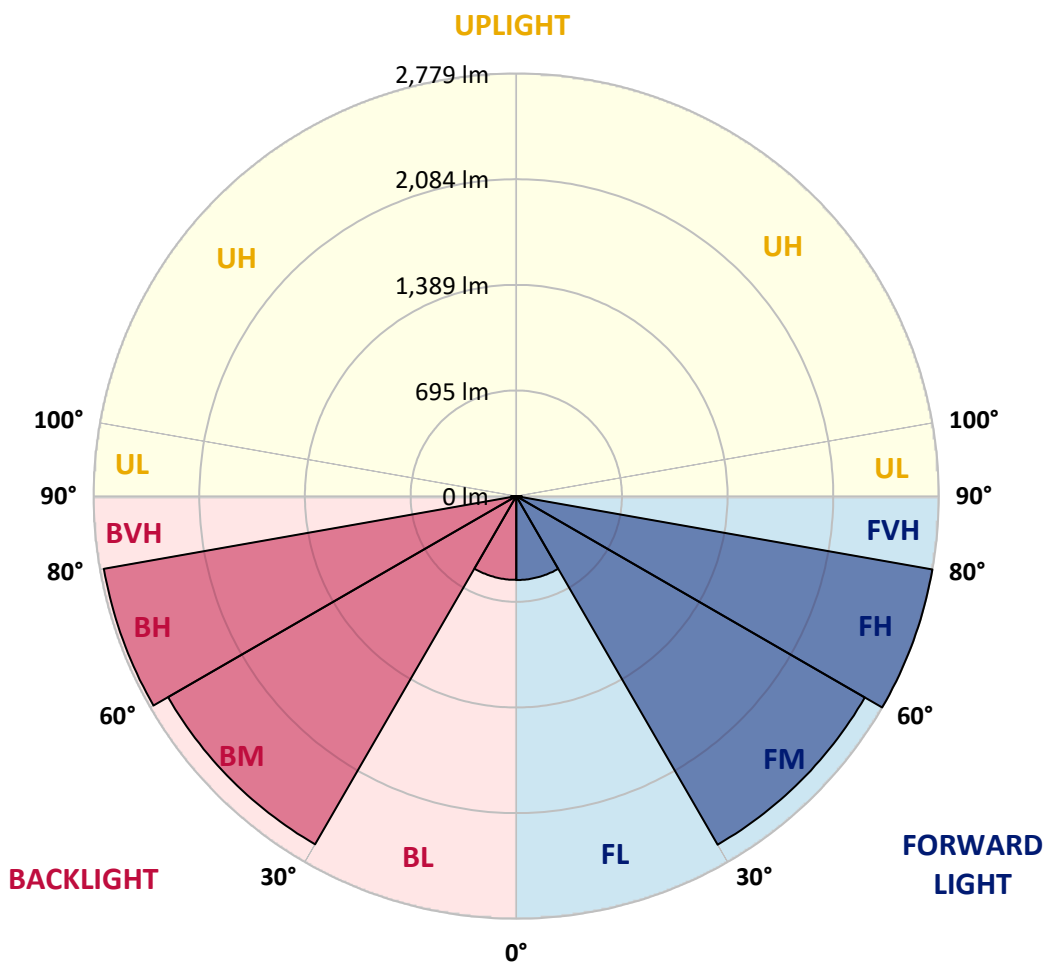
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	551.8	4.6			
FM (30°-60°)	2646.8	22.1			
FH (60°-80°)	2779.0	23.2			G2/5000
FVH (80°-90°)	37.0	0.3			G1/100
BL (0°-30°)	550.7	4.6	B2/1000		
BM (30°-60°)	2643.9	22.0	B3/5000		
BH (60°-80°)	2753.9	23.0	B4/5000		G2/5000
BVH (80°-90°)	35.4	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°	1310.6	1310.6	1310.6	1310.6	1310.6	1310.6	1310.6	1310.6	1310.6	1310.6	1310.6
2.5°	1280.5	1295.6	1306.5	1305.2	1309.3	1313.4	1307.9	1316.1	1310.6	1320.2	1325.7
5°	1305.2	1301.0	1302.4	1294.2	1313.4	1291.5	1291.5	1302.4	1316.1	1299.7	1309.3
7.5°	1290.1	1287.3	1280.5	1292.8	1296.9	1296.9	1307.9	1287.3	1310.6	1316.1	1317.5
10°	1273.7	1258.6	1279.1	1291.5	1294.2	1272.3	1281.9	1287.3	1280.5	1287.3	1291.5
12.5°	1260.0	1268.2	1268.2	1268.2	1264.1	1279.1	1288.7	1287.3	1273.7	1286.0	1264.1
15°	1258.6	1254.5	1266.8	1277.8	1270.9	1273.7	1277.8	1290.1	1264.1	1269.5	1269.5
17.5°	1257.2	1262.7	1266.8	1265.4	1288.7	1288.7	1284.6	1276.4	1296.9	1286.0	1270.9
20°	1262.7	1258.6	1269.5	1273.7	1290.1	1323.0	1310.6	1303.8	1292.8	1279.1	1279.1
22.5°	1269.5	1266.8	1281.9	1299.7	1331.2	1339.4	1338.0	1329.8	1310.6	1294.2	1291.5
25°	1294.2	1269.5	1286.0	1320.2	1331.2	1347.6	1358.6	1347.6	1321.6	1325.7	1301.0
27.5°	1331.2	1327.1	1349.0	1372.3	1362.7	1377.7	1368.1	1376.4	1377.7	1357.2	1332.5
30°	1375.0	1362.7	1376.4	1421.6	1425.7	1442.1	1425.7	1403.8	1410.6	1392.8	1380.5
32.5°	1438.0	1433.9	1459.9	1490.0	1495.5	1487.3	1479.1	1491.4	1462.6	1449.0	1427.0
35°	1479.1	1496.9	1528.4	1551.7	1569.5	1561.3	1565.4	1553.0	1559.9	1531.1	1521.5
37.5°	1601.0	1594.1	1601.0	1640.7	1644.8	1640.7	1644.8	1658.5	1648.9	1624.2	1599.6
40°	1716.0	1705.1	1721.5	1766.7	1763.9	1777.6	1750.2	1765.3	1765.3	1718.7	1709.2
42.5°	1802.3	1839.3	1858.4	1895.4	1909.1	1896.8	1891.3	1894.0	1924.2	1869.4	1848.9
45°	1980.3	1979.0	2036.5	2057.0	2018.7	2015.9	2005.0	2037.8	2058.4	2026.9	2018.7
47.5°	2173.4	2183.0	2215.9	2224.1	2247.4	2204.9	2204.9	2209.0	2281.6	2207.7	2169.3
50°	2347.4	2359.7	2425.4	2489.8	2446.0	2400.8	2418.6	2440.5	2480.2	2410.4	2377.5
52.5°	2558.3	2625.4	2669.2	2703.4	2734.9	2703.4	2662.3	2687.0	2765.1	2671.9	2630.8
55°	2862.3	2915.7	2956.8	3019.8	3045.8	3003.4	2999.2	2996.5	3040.3	2941.7	2885.6
57.5°	3201.9	3180.0	3245.8	3343.0	3437.5	3396.4	3384.1	3386.8	3397.8	3258.1	3215.6
60°	3623.7	3648.4	3726.5	3811.4	3911.3	3968.9	3888.1	3841.5	3851.1	3660.7	3595.0
62.5°	3864.8	3919.6	4096.2	4387.9	4589.3	4768.7	4781.0	4478.3	4275.6	3905.9	3626.5
65°	3748.4	3740.2	4072.9	4612.5	5375.4	5897.1	5819.1	5085.0	4377.0	3789.5	3414.2
67.5°	3188.2	3166.3	3569.0	4424.9	5684.9	6824.3	6735.3	5256.2	4034.6	3352.6	2928.0
70°	2054.3	2048.8	2485.7	3373.1	5075.4	6265.5	6298.4	4774.1	3284.1	2455.5	2035.1
72.5°	746.4	791.6	1044.9	1813.2	3447.1	4793.3	4813.9	3534.7	1888.6	1135.3	836.8
75°	275.3	283.5	330.1	588.9	1570.8	2943.1	3019.8	1714.6	671.1	369.8	301.3
77.5°	158.9	160.2	176.7	219.1	465.6	1149.0	1195.6	520.4	260.2	197.2	182.1
80°	108.2	106.8	124.6	142.4	186.3	325.9	346.5	217.8	164.3	137.0	115.0
82.5°	63.0	67.1	91.8	101.3	113.7	143.8	146.5	135.6	123.3	101.3	75.3
85°	38.3	31.5	50.7	56.2	65.7	64.4	64.4	74.0	79.4	71.2	42.5
87.5°	9.6	9.6	12.3	13.7	17.8	13.7	15.1	28.8	38.3	35.6	21.9
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°	1310.6	1310.6	1310.6	1310.6	1310.6	1310.6	1310.6	1310.6	1310.6	1310.6	1310.6
2.5°	1313.4	1309.3	1312.0	1327.1	1317.5	1288.7	1295.6	1310.6	1298.3	1291.5	1290.1
5°	1307.9	1316.1	1306.5	1309.3	1318.8	1295.6	1299.7	1318.8	1310.6	1313.4	1298.3
7.5°	1309.3	1313.4	1305.2	1292.8	1292.8	1312.0	1301.0	1303.8	1291.5	1312.0	1284.6
10°	1301.0	1290.1	1280.5	1287.3	1284.6	1279.1	1275.0	1283.2	1270.9	1288.7	1269.5
12.5°	1276.4	1279.1	1276.4	1273.7	1279.1	1292.8	1270.9	1273.7	1254.5	1257.2	1266.8
15°	1266.8	1275.0	1272.3	1287.3	1294.2	1273.7	1290.1	1273.7	1258.6	1250.4	1265.4
17.5°	1270.9	1283.2	1279.1	1290.1	1277.8	1292.8	1295.6	1288.7	1270.9	1264.1	1270.9
20°	1275.0	1270.9	1276.4	1295.6	1313.4	1298.3	1298.3	1294.2	1277.8	1268.2	1268.2
22.5°	1284.6	1277.8	1286.0	1301.0	1306.5	1329.8	1309.3	1299.7	1272.3	1247.6	1270.9
25°	1303.8	1307.9	1313.4	1307.9	1338.0	1335.3	1332.5	1325.7	1283.2	1284.6	1280.5
27.5°	1340.8	1317.5	1324.3	1357.2	1361.3	1372.3	1358.6	1370.9	1325.7	1327.1	1299.7
30°	1386.0	1361.3	1383.2	1412.0	1410.6	1431.1	1424.3	1427.0	1395.5	1377.7	1340.8
32.5°	1435.3	1432.5	1446.2	1464.0	1470.9	1481.8	1480.5	1480.5	1461.3	1414.7	1421.6
35°	1490.0	1509.2	1525.6	1544.8	1547.6	1561.3	1542.1	1544.8	1525.6	1491.4	1502.4
37.5°	1598.2	1596.9	1614.7	1637.9	1640.7	1629.7	1644.8	1637.9	1611.9	1588.6	1570.8
40°	1724.2	1696.8	1713.3	1768.0	1772.2	1753.0	1751.6	1750.2	1731.1	1680.4	1669.4
42.5°	1833.8	1869.4	1866.7	1884.5	1872.1	1862.5	1896.8	1877.6	1862.5	1809.1	1799.5
45°	1974.8	1985.8	2021.4	2078.9	2020.0	2020.0	2043.3	2028.3	2020.0	1980.3	1943.3
47.5°	2150.1	2159.7	2230.9	2235.1	2196.7	2170.7	2243.3	2246.0	2211.8	2181.6	2136.4
50°	2355.6	2359.7	2424.0	2489.8	2447.3	2398.0	2472.0	2500.7	2424.0	2383.0	2326.8
52.5°	2581.5	2569.2	2622.6	2745.9	2704.8	2689.7	2769.2	2776.0	2671.9	2607.6	2622.6
55°	2841.8	2825.3	2970.5	3054.0	3028.0	3000.6	3036.2	3052.7	2969.1	2863.7	2900.6
57.5°	3178.7	3186.9	3259.5	3341.6	3384.1	3390.9	3407.4	3390.9	3306.0	3199.2	3165.0
60°	3515.6	3540.2	3681.3	3836.0	3849.7	3970.2	3948.3	3866.2	3745.6	3593.6	3600.5
62.5°	3640.2	3619.6	3847.0	4225.0	4546.8	4767.3	4670.1	4378.4	4099.0	3822.3	3842.9
65°	3389.6	3440.2	3749.7	4341.4	5039.8	5912.2	5394.5	4587.9	4023.6	3666.2	3626.5
67.5°	2921.2	2959.5	3352.6	3977.1	5216.5	6616.1	5668.4	4292.1	3548.4	3085.5	3110.2
70°	2035.1	2054.3	2439.1	3258.1	4730.3	6243.6	5113.8	3296.4	2450.1	1952.9	1980.3
72.5°	819.0	865.5	1118.9	1962.5	3492.3	4744.0	3443.0	1729.7	1016.2	756.0	686.1
75°	302.7	304.0	357.4	675.2	1658.5	2981.4	1553.0	556.0	324.6	265.7	253.4
77.5°	175.3	173.9	186.3	243.8	480.7	1164.1	441.0	217.8	176.7	158.9	152.0
80°	109.6	108.2	127.4	161.6	210.9	319.1	186.3	135.6	119.1	102.7	102.7
82.5°	69.8	71.2	100.0	119.1	128.7	141.1	108.2	95.9	89.0	58.9	57.5
85°	45.2	41.1	69.8	79.4	71.2	63.0	60.3	50.7	46.6	28.8	31.5
87.5°	20.5	21.9	35.6	39.7	26.0	15.1	15.1	11.0	11.0	6.8	6.8
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)