

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: P479326

Luminaire Tested: **IFLD-S-SA3A-740-U-5MQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P479326
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3A-740-U-5MQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5MQ distribution lens
Light Source: (48) 4000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

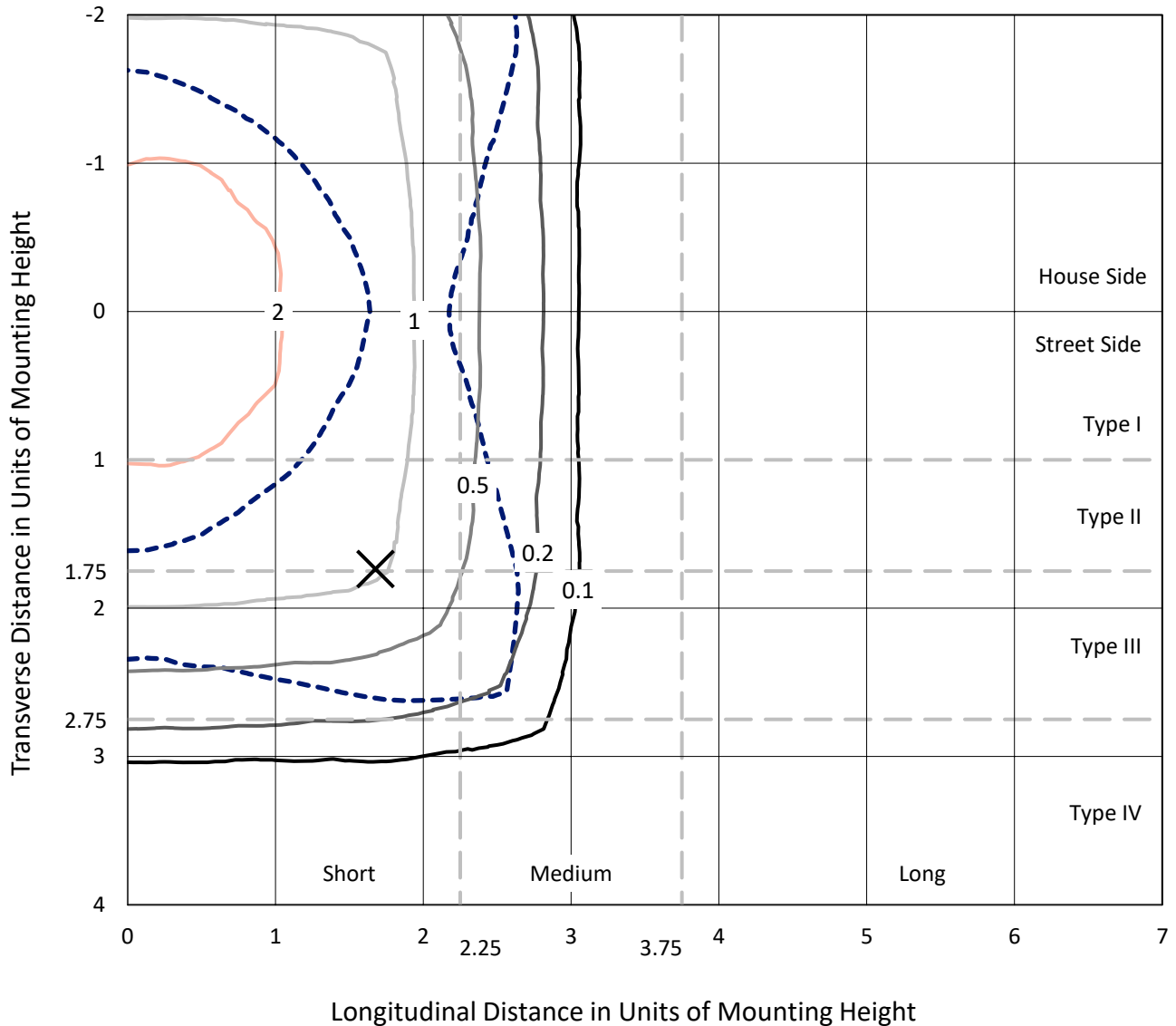
Lumens per Lamp: N/A
Luminaire Lumens: 13888 lumens
Efficiency: N/A
Efficacy: 146.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

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

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Iso-Footcandle Lines of Horizontal Illumination

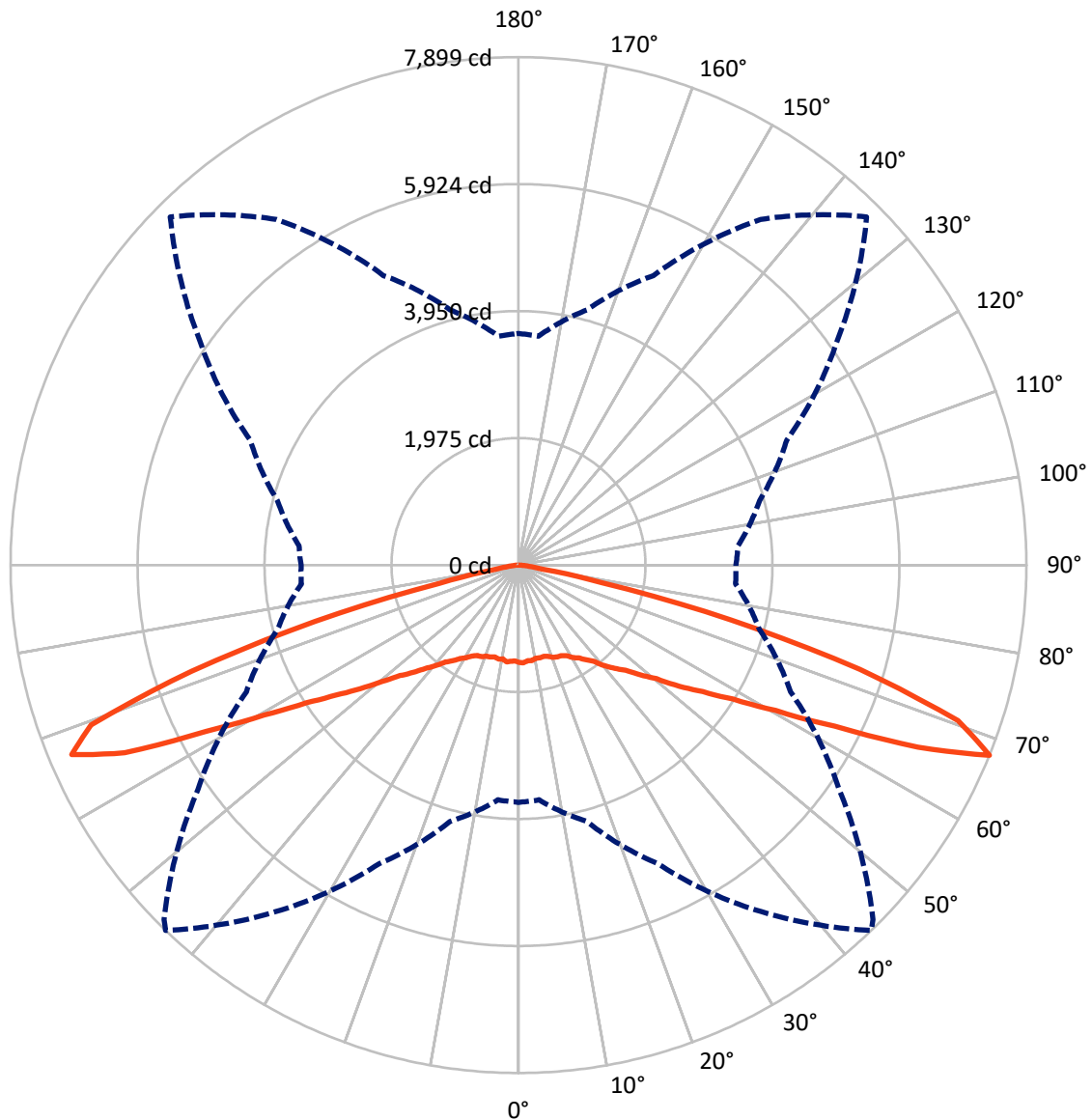
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 3.8 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	6926.2	0.0	6926.2
	% Fixture	49.9	0.0	49.9
Street Side	Lumens	6961.8	0.0	6961.8
	% Fixture	50.1	0.0	50.1
Total	Lumens	13888.0	0.0	13888.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	143.6	1.0
10°-20°	419.4	3.0
20°-30°	713.2	5.1
30°-40°	1130.8	8.1
40°-50°	1843.9	13.3
50°-60°	3149.1	22.7
60°-70°	4789.8	34.5
70°-80°	1614.4	11.6
80°-90°	83.8	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°	13888.0	100.0
0°-180°	13888.0	100.0

Coefficient of Utilization



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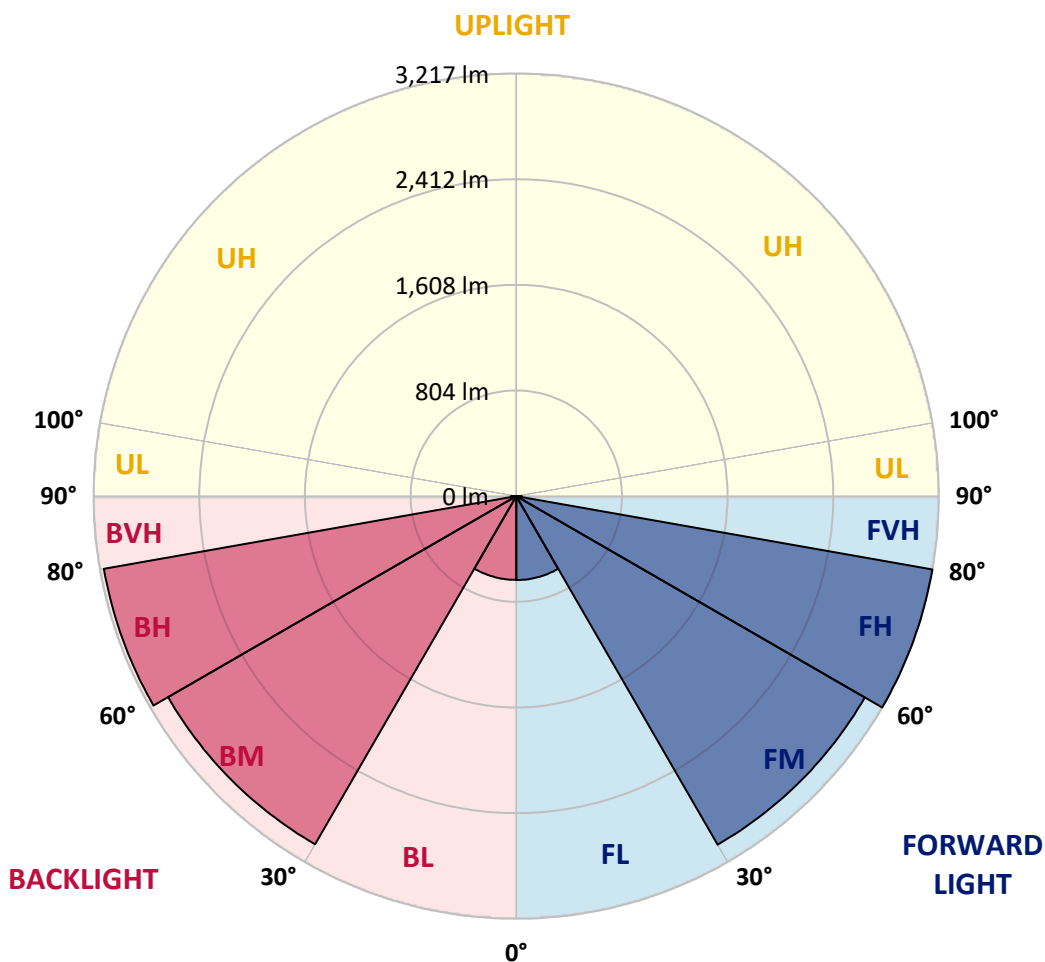
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	638.7	4.6			
FM (30°-60°)	3063.6	22.1			
FH (60°-80°)	3216.6	23.2			G2/5000
FVH (80°-90°)	42.9	0.3			G1/100
BL (0°-30°)	637.4	4.6	B2/1000		
BM (30°-60°)	3060.2	22.0	B3/5000		
BH (60°-80°)	3187.6	23.0	B4/5000		G2/5000
BVH (80°-90°)	40.9	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°	1517.0	1517.0	1517.0	1517.0	1517.0	1517.0	1517.0	1517.0	1517.0	1517.0	1517.0
2.5°	1482.1	1499.6	1512.3	1510.7	1515.4	1520.2	1513.9	1523.4	1517.0	1528.1	1534.5
5°	1510.7	1505.9	1507.5	1498.0	1520.2	1494.8	1494.8	1507.5	1523.4	1504.3	1515.4
7.5°	1493.2	1490.1	1482.1	1496.4	1501.2	1501.2	1513.9	1490.1	1517.0	1523.4	1524.9
10°	1474.2	1456.8	1480.6	1494.8	1498.0	1472.6	1483.7	1490.1	1482.1	1490.1	1494.8
12.5°	1458.4	1467.9	1467.9	1467.9	1463.1	1480.6	1491.7	1490.1	1474.2	1488.5	1463.1
15°	1456.8	1452.0	1466.3	1479.0	1471.1	1474.2	1479.0	1493.2	1463.1	1469.5	1469.5
17.5°	1455.2	1461.5	1466.3	1464.7	1491.7	1491.7	1486.9	1477.4	1501.2	1488.5	1471.1
20°	1461.5	1456.8	1469.5	1474.2	1493.2	1531.3	1517.0	1509.1	1496.4	1480.6	1480.6
22.5°	1469.5	1466.3	1483.7	1504.3	1540.8	1550.3	1548.7	1539.2	1517.0	1498.0	1494.8
25°	1498.0	1469.5	1488.5	1528.1	1540.8	1559.8	1572.5	1559.8	1529.7	1534.5	1505.9
27.5°	1540.8	1536.0	1561.4	1588.4	1577.3	1594.7	1583.6	1593.1	1594.7	1570.9	1542.4
30°	1591.5	1577.3	1593.1	1645.4	1650.2	1669.2	1650.2	1624.8	1632.7	1612.1	1597.9
32.5°	1664.4	1659.7	1689.8	1724.7	1731.0	1721.5	1712.0	1726.3	1693.0	1677.1	1651.8
35°	1712.0	1732.6	1769.1	1796.0	1816.6	1807.1	1811.9	1797.6	1805.5	1772.2	1761.1
37.5°	1853.1	1845.2	1853.1	1899.1	1903.8	1899.1	1903.8	1919.7	1908.6	1880.0	1851.5
40°	1986.2	1973.6	1992.6	2044.9	2041.7	2057.6	2025.9	2043.3	2043.3	1989.4	1978.3
42.5°	2086.1	2128.9	2151.1	2193.9	2209.7	2195.5	2189.1	2192.3	2227.2	2163.8	2140.0
45°	2292.2	2290.6	2357.2	2380.9	2336.6	2333.4	2320.7	2358.8	2382.5	2346.1	2336.6
47.5°	2515.7	2526.8	2564.8	2574.3	2601.3	2552.1	2552.1	2556.9	2640.9	2555.3	2510.9
50°	2717.0	2731.3	2807.4	2881.9	2831.1	2778.8	2799.4	2824.8	2870.8	2789.9	2751.9
52.5°	2961.1	3038.8	3089.5	3129.2	3165.6	3129.2	3081.6	3110.1	3200.5	3092.7	3045.1
55°	3313.0	3374.9	3422.4	3495.3	3525.5	3476.3	3471.6	3468.4	3519.1	3405.0	3340.0
57.5°	3706.2	3680.8	3756.9	3869.4	3978.8	3931.3	3917.0	3920.2	3932.8	3771.2	3722.0
60°	4194.4	4222.9	4313.3	4411.6	4527.3	4593.9	4500.3	4446.4	4457.5	4237.2	4161.1
62.5°	4473.4	4536.8	4741.3	5078.9	5312.0	5519.6	5533.9	5183.6	4948.9	4520.9	4197.6
65°	4338.7	4329.1	4714.3	5338.9	6221.9	6825.8	6735.4	5885.8	5066.3	4386.2	3951.9
67.5°	3690.3	3664.9	4131.0	5121.7	6580.1	7899.0	7795.9	6083.9	4670.0	3880.5	3389.1
70°	2377.8	2371.4	2877.1	3904.3	5874.7	7252.2	7290.3	5526.0	3801.3	2842.2	2355.6
72.5°	863.9	916.2	1209.5	2098.8	3989.9	5548.1	5571.9	4091.4	2186.0	1314.1	968.5
75°	318.6	328.1	382.0	681.6	1818.2	3406.6	3495.3	1984.7	776.7	428.0	348.7
77.5°	183.9	185.5	204.5	253.6	539.0	1330.0	1383.9	602.4	301.2	228.3	210.8
80°	125.2	123.6	144.3	164.9	215.6	377.3	401.1	252.0	190.2	158.5	133.2
82.5°	72.9	77.7	106.2	117.3	131.6	166.4	169.6	156.9	142.7	117.3	87.2
85°	44.4	36.5	58.7	65.0	76.1	74.5	74.5	85.6	91.9	82.4	49.1
87.5°	11.1	11.1	14.3	15.9	20.6	15.9	17.4	33.3	44.4	41.2	25.4
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°	1517.0	1517.0	1517.0	1517.0	1517.0	1517.0	1517.0	1517.0	1517.0	1517.0	1517.0
2.5°	1520.2	1515.4	1518.6	1536.0	1524.9	1491.7	1499.6	1517.0	1502.8	1494.8	1493.2
5°	1513.9	1523.4	1512.3	1515.4	1526.5	1499.6	1504.3	1526.5	1517.0	1520.2	1502.8
7.5°	1515.4	1520.2	1510.7	1496.4	1496.4	1518.6	1505.9	1509.1	1494.8	1518.6	1486.9
10°	1505.9	1493.2	1482.1	1490.1	1486.9	1480.6	1475.8	1485.3	1471.1	1491.7	1469.5
12.5°	1477.4	1480.6	1477.4	1474.2	1480.6	1496.4	1471.1	1474.2	1452.0	1455.2	1466.3
15°	1466.3	1475.8	1472.6	1490.1	1498.0	1474.2	1493.2	1474.2	1456.8	1447.3	1464.7
17.5°	1471.1	1485.3	1480.6	1493.2	1479.0	1496.4	1499.6	1491.7	1471.1	1463.1	1471.1
20°	1475.8	1471.1	1477.4	1499.6	1520.2	1502.8	1502.8	1498.0	1479.0	1467.9	1467.9
22.5°	1486.9	1479.0	1488.5	1505.9	1512.3	1539.2	1515.4	1504.3	1472.6	1444.1	1471.1
25°	1509.1	1513.9	1520.2	1513.9	1548.7	1545.6	1542.4	1534.5	1485.3	1486.9	1482.1
27.5°	1551.9	1524.9	1532.9	1570.9	1575.7	1588.4	1572.5	1586.8	1534.5	1536.0	1504.3
30°	1604.2	1575.7	1601.0	1634.3	1632.7	1656.5	1648.6	1651.8	1615.3	1594.7	1551.9
32.5°	1661.3	1658.1	1674.0	1694.6	1702.5	1715.2	1713.6	1713.6	1691.4	1637.5	1645.4
35°	1724.7	1746.9	1765.9	1788.1	1791.3	1807.1	1784.9	1788.1	1765.9	1726.3	1738.9
37.5°	1849.9	1848.3	1868.9	1895.9	1899.1	1886.4	1903.8	1895.9	1865.8	1838.8	1818.2
40°	1995.7	1964.0	1983.1	2046.5	2051.2	2029.0	2027.5	2025.9	2003.7	1945.0	1932.3
42.5°	2122.6	2163.8	2160.6	2181.2	2166.9	2155.9	2195.5	2173.3	2155.9	2094.0	2082.9
45°	2285.8	2298.5	2339.7	2406.3	2338.1	2338.1	2365.1	2347.7	2338.1	2292.2	2249.4
47.5°	2488.7	2499.8	2582.3	2587.0	2542.6	2512.5	2596.5	2599.7	2560.1	2525.2	2472.9
50°	2726.5	2731.3	2805.8	2881.9	2832.7	2775.7	2861.3	2894.5	2805.8	2758.2	2693.2
52.5°	2988.1	2973.8	3035.6	3178.3	3130.7	3113.3	3205.2	3213.2	3092.7	3018.2	3035.6
55°	3289.3	3270.2	3438.3	3535.0	3504.8	3473.1	3514.4	3533.4	3436.7	3314.6	3357.4
57.5°	3679.2	3688.7	3772.7	3867.9	3917.0	3924.9	3943.9	3924.9	3826.6	3703.0	3663.4
60°	4069.2	4097.7	4261.0	4440.1	4456.0	4595.5	4570.1	4475.0	4335.5	4159.5	4167.5
62.5°	4213.4	4189.6	4452.8	4890.3	5262.8	5518.0	5405.5	5067.8	4744.5	4424.3	4448.0
65°	3923.3	3982.0	4340.2	5025.0	5833.5	6843.2	6244.0	5310.4	4657.3	4243.5	4197.6
67.5°	3381.2	3425.6	3880.5	4603.4	6038.0	7658.0	6561.1	4968.0	4107.2	3571.4	3600.0
70°	2355.6	2377.8	2823.2	3771.2	5475.2	7226.9	5919.1	3815.5	2835.9	2260.5	2292.2
72.5°	947.9	1001.8	1295.1	2271.6	4042.2	5491.1	3985.2	2002.1	1176.2	875.0	794.2
75°	350.3	351.9	413.7	781.5	1919.7	3450.9	1797.6	643.6	375.7	307.5	293.3
77.5°	202.9	201.3	215.6	282.2	556.4	1347.4	510.4	252.0	204.5	183.9	176.0
80°	126.8	125.2	147.4	187.1	244.1	369.3	215.6	156.9	137.9	118.9	118.9
82.5°	80.8	82.4	115.7	137.9	149.0	163.3	125.2	111.0	103.0	68.2	66.6
85°	52.3	47.6	80.8	91.9	82.4	72.9	69.7	58.7	53.9	33.3	36.5
87.5°	23.8	25.4	41.2	46.0	30.1	17.4	17.4	12.7	12.7	7.9	7.9
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)