

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: P479442

Luminaire Tested: **IFLD-S-SA2E-827-U-5MQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P479442
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2E-827-U-5MQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5MQ distribution lens
Light Source: (32) 2700K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

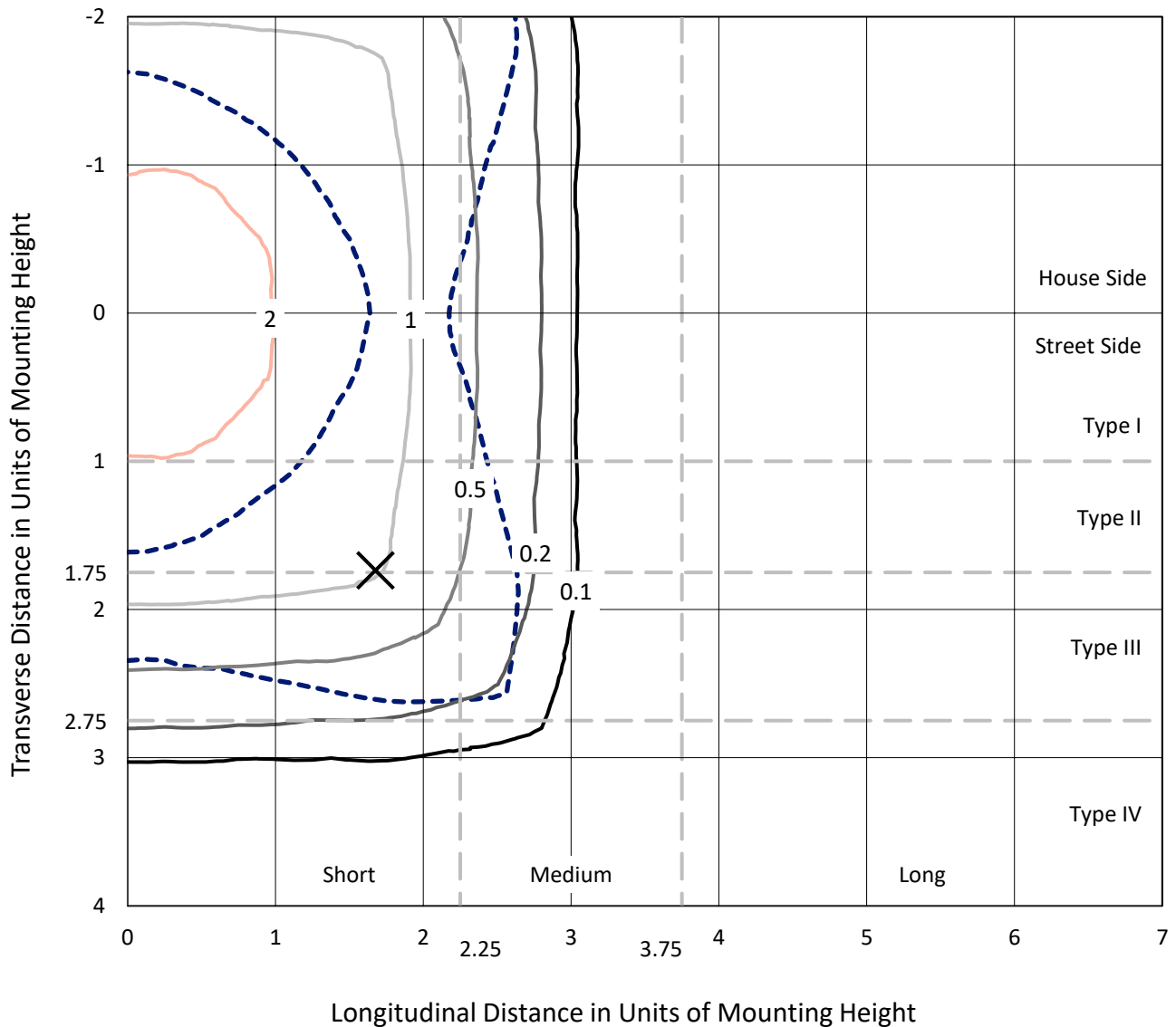
Lumens per Lamp: N/A
Luminaire Lumens: 13430 lumens
Efficiency: N/A
Efficacy: 86.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

Input Watts (W): 156.2
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

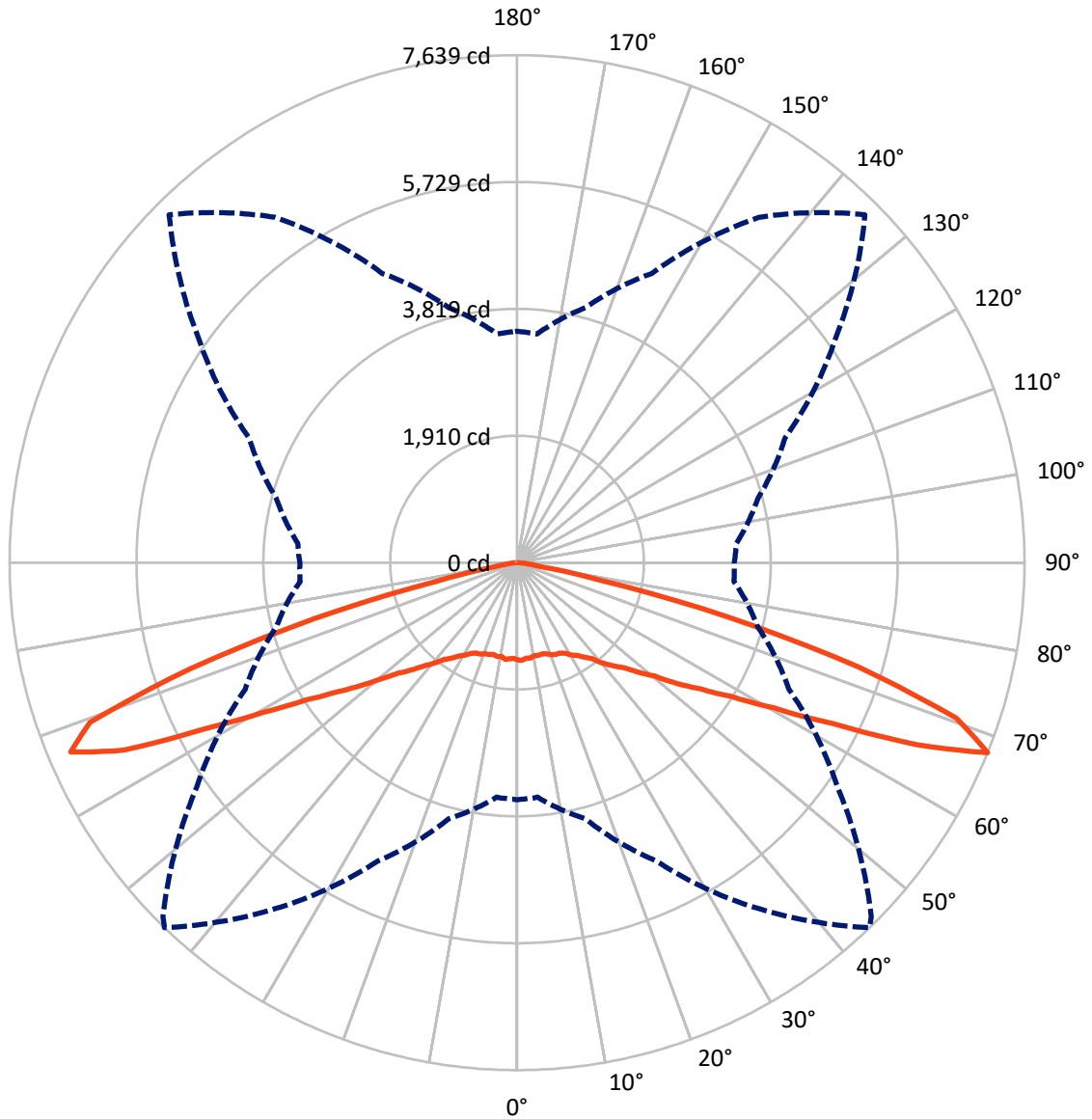
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 3.7 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	6697.8	0.0	6697.8
	% Fixture	49.9	0.0	49.9
Street Side	Lumens	6732.2	0.0	6732.2
	% Fixture	50.1	0.0	50.1
Total	Lumens	13430.0	0.0	13430.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	138.8	1.0
10°-20°	405.6	3.0
20°-30°	689.7	5.1
30°-40°	1093.5	8.1
40°-50°	1783.1	13.3
50°-60°	3045.3	22.7
60°-70°	4631.8	34.5
70°-80°	1561.2	11.6
80°-90°	81.1	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°	13430.0	100.0
0°-180°	13430.0	100.0

Coefficient of Utilization



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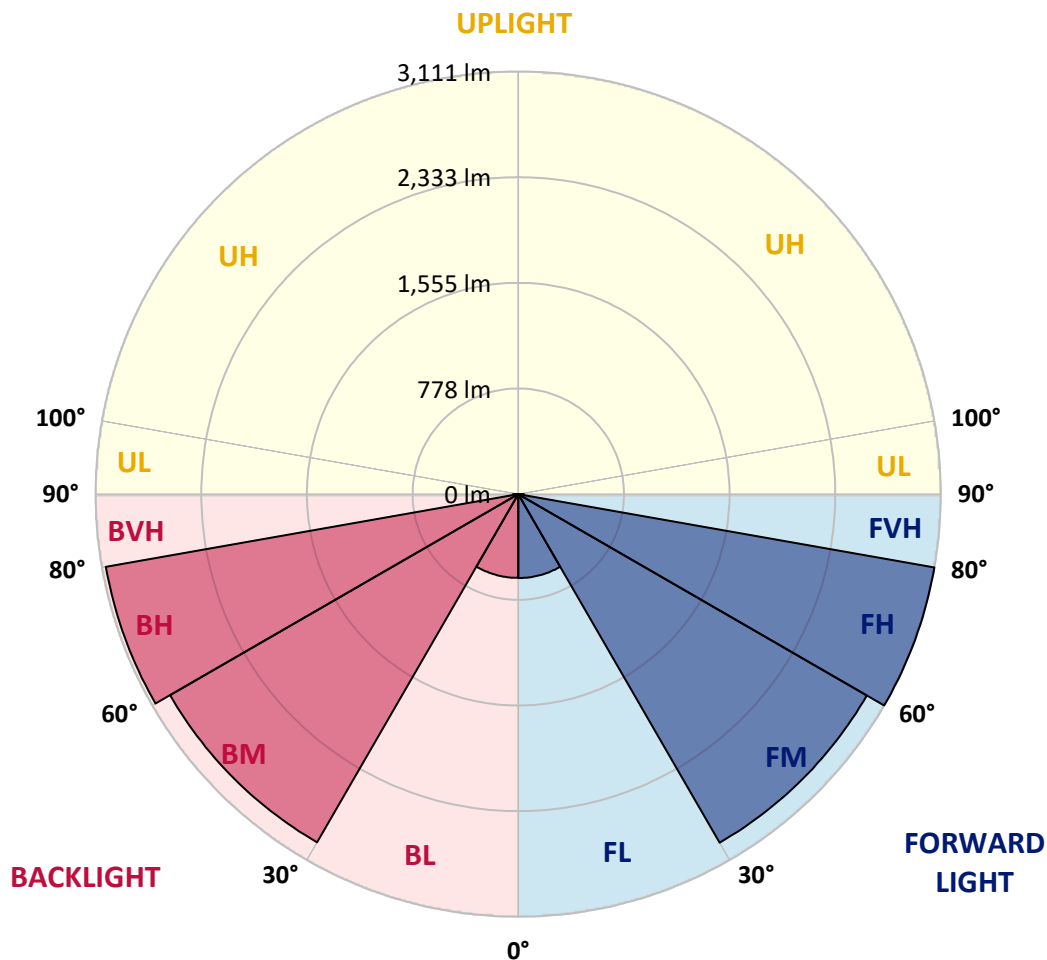
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	617.7	4.6			
FM (30°-60°)	2962.5	22.1			
FH (60°-80°)	3110.5	23.2			G2/5000
FVH (80°-90°)	41.5	0.3			G1/100
BL (0°-30°)	616.4	4.6	B2/1000		
BM (30°-60°)	2959.3	22.0	B3/5000		
BH (60°-80°)	3082.5	23.0	B4/5000		G2/5000
BVH (80°-90°)	39.6	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°	1467.0	1467.0	1467.0	1467.0	1467.0	1467.0	1467.0	1467.0	1467.0	1467.0	1467.0
2.5°	1433.3	1450.1	1462.4	1460.9	1465.5	1470.1	1463.9	1473.1	1467.0	1477.7	1483.9
5°	1460.9	1456.3	1457.8	1448.6	1470.1	1445.5	1445.5	1457.8	1473.1	1454.7	1465.5
7.5°	1444.0	1440.9	1433.3	1447.1	1451.7	1451.7	1463.9	1440.9	1467.0	1473.1	1474.7
10°	1425.6	1408.7	1431.7	1445.5	1448.6	1424.1	1434.8	1440.9	1433.3	1440.9	1445.5
12.5°	1410.3	1419.5	1419.5	1419.5	1414.9	1431.7	1442.5	1440.9	1425.6	1439.4	1414.9
15°	1408.7	1404.1	1417.9	1430.2	1422.5	1425.6	1430.2	1444.0	1414.9	1421.0	1421.0
17.5°	1407.2	1413.3	1417.9	1416.4	1442.5	1442.5	1437.9	1428.7	1451.7	1439.4	1422.5
20°	1413.3	1408.7	1421.0	1425.6	1444.0	1480.8	1467.0	1459.3	1447.1	1431.7	1431.7
22.5°	1421.0	1417.9	1434.8	1454.7	1490.0	1499.2	1497.7	1488.5	1467.0	1448.6	1445.5
25°	1448.6	1421.0	1439.4	1477.7	1490.0	1508.4	1520.7	1508.4	1479.3	1483.9	1456.3
27.5°	1490.0	1485.4	1509.9	1536.0	1525.2	1542.1	1531.4	1540.6	1542.1	1519.1	1491.5
30°	1539.0	1525.2	1540.6	1591.2	1595.8	1614.2	1595.8	1571.2	1578.9	1559.0	1545.2
32.5°	1609.6	1605.0	1634.1	1667.8	1673.9	1664.7	1655.5	1669.3	1637.2	1621.8	1597.3
35°	1655.5	1675.5	1710.7	1736.8	1756.7	1747.5	1752.1	1738.3	1746.0	1713.8	1703.1
37.5°	1792.0	1784.3	1792.0	1836.4	1841.0	1836.4	1841.0	1856.4	1845.6	1818.0	1790.4
40°	1920.7	1908.5	1926.9	1977.5	1974.4	1989.7	1959.1	1975.9	1975.9	1923.8	1913.1
42.5°	2017.3	2058.7	2080.2	2121.6	2136.9	2123.1	2117.0	2120.0	2153.7	2092.4	2069.4
45°	2216.6	2215.1	2279.4	2302.4	2259.5	2256.4	2244.2	2281.0	2304.0	2268.7	2259.5
47.5°	2432.7	2443.5	2480.3	2489.5	2515.5	2468.0	2468.0	2472.6	2553.8	2471.1	2428.1
50°	2627.4	2641.2	2714.8	2786.8	2737.8	2687.2	2707.1	2731.7	2776.1	2697.9	2661.1
52.5°	2863.5	2938.6	2987.6	3026.0	3061.2	3026.0	2980.0	3007.6	3095.0	2990.7	2944.7
55°	3203.8	3263.6	3309.6	3380.1	3409.2	3361.7	3357.1	3354.0	3403.1	3292.7	3229.8
57.5°	3584.0	3559.4	3633.0	3741.8	3847.6	3801.6	3787.8	3790.9	3803.2	3646.8	3599.3
60°	4056.1	4083.7	4171.1	4266.1	4378.0	4442.4	4351.9	4299.8	4310.6	4097.5	4023.9
62.5°	4325.9	4387.2	4584.9	4911.5	5136.8	5337.6	5351.4	5012.6	4785.8	4371.9	4059.2
65°	4195.6	4186.4	4558.9	5162.9	6016.7	6600.7	6513.4	5691.7	4899.2	4241.6	3821.6
67.5°	3568.6	3544.1	3994.8	4952.8	6363.1	7638.5	7538.9	5883.3	4516.0	3752.6	3277.4
70°	2299.4	2293.2	2782.2	3775.6	5681.0	7013.1	7049.9	5343.7	3675.9	2748.5	2277.9
72.5°	835.4	886.0	1169.6	2029.6	3858.3	5365.2	5388.2	3956.5	2113.9	1270.8	936.6
75°	308.1	317.3	369.4	659.2	1758.3	3294.2	3380.1	1919.2	751.1	413.9	337.2
77.5°	177.8	179.4	197.7	245.3	521.2	1286.1	1338.2	582.5	291.3	220.7	203.9
80°	121.1	119.6	139.5	159.4	208.5	364.8	387.8	243.7	183.9	153.3	128.8
82.5°	70.5	75.1	102.7	113.4	127.2	161.0	164.0	151.8	138.0	113.4	84.3
85°	42.9	35.3	56.7	62.8	73.6	72.0	72.0	82.8	88.9	79.7	47.5
87.5°	10.7	10.7	13.8	15.3	19.9	15.3	16.9	32.2	42.9	39.9	24.5
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°	1467.0	1467.0	1467.0	1467.0	1467.0	1467.0	1467.0	1467.0	1467.0	1467.0	1467.0
2.5°	1470.1	1465.5	1468.5	1485.4	1474.7	1442.5	1450.1	1467.0	1453.2	1445.5	1444.0
5°	1463.9	1473.1	1462.4	1465.5	1476.2	1450.1	1454.7	1476.2	1467.0	1470.1	1453.2
7.5°	1465.5	1470.1	1460.9	1447.1	1447.1	1468.5	1456.3	1459.3	1445.5	1468.5	1437.9
10°	1456.3	1444.0	1433.3	1440.9	1437.9	1431.7	1427.1	1436.3	1422.5	1442.5	1421.0
12.5°	1428.7	1431.7	1428.7	1425.6	1431.7	1447.1	1422.5	1425.6	1404.1	1407.2	1417.9
15°	1417.9	1427.1	1424.1	1440.9	1448.6	1425.6	1444.0	1425.6	1408.7	1399.6	1416.4
17.5°	1422.5	1436.3	1431.7	1444.0	1430.2	1447.1	1450.1	1442.5	1422.5	1414.9	1422.5
20°	1427.1	1422.5	1428.7	1450.1	1470.1	1453.2	1453.2	1448.6	1430.2	1419.5	1419.5
22.5°	1437.9	1430.2	1439.4	1456.3	1462.4	1488.5	1465.5	1454.7	1424.1	1396.5	1422.5
25°	1459.3	1463.9	1470.1	1463.9	1497.7	1494.6	1491.5	1483.9	1436.3	1437.9	1433.3
27.5°	1500.7	1474.7	1482.3	1519.1	1523.7	1536.0	1520.7	1534.4	1483.9	1485.4	1454.7
30°	1551.3	1523.7	1548.2	1580.4	1578.9	1601.9	1594.2	1597.3	1562.0	1542.1	1500.7
32.5°	1606.5	1603.4	1618.8	1638.7	1646.3	1658.6	1657.1	1657.1	1635.6	1583.5	1591.2
35°	1667.8	1689.3	1707.7	1729.1	1732.2	1747.5	1726.1	1729.1	1707.7	1669.3	1681.6
37.5°	1788.9	1787.4	1807.3	1833.4	1836.4	1824.2	1841.0	1833.4	1804.2	1778.2	1758.3
40°	1929.9	1899.3	1917.7	1979.0	1983.6	1962.1	1960.6	1959.1	1937.6	1880.9	1868.6
42.5°	2052.6	2092.4	2089.4	2109.3	2095.5	2084.8	2123.1	2101.6	2084.8	2025.0	2014.2
45°	2210.5	2222.7	2262.6	2327.0	2261.0	2261.0	2287.1	2270.2	2261.0	2216.6	2175.2
47.5°	2406.7	2417.4	2497.1	2501.7	2458.8	2429.7	2510.9	2514.0	2475.7	2441.9	2391.3
50°	2636.6	2641.2	2713.3	2786.8	2739.3	2684.1	2766.9	2799.1	2713.3	2667.3	2604.4
52.5°	2889.5	2875.7	2935.5	3073.5	3027.5	3010.6	3099.6	3107.2	2990.7	2918.7	2935.5
55°	3180.8	3162.4	3324.9	3418.4	3389.3	3358.6	3398.5	3416.9	3323.4	3205.3	3246.7
57.5°	3557.9	3567.1	3648.3	3740.3	3787.8	3795.5	3813.9	3795.5	3700.5	3580.9	3542.6
60°	3935.0	3962.6	4120.5	4293.7	4309.0	4443.9	4419.4	4327.4	4192.5	4022.4	4030.0
62.5°	4074.5	4051.5	4306.0	4729.0	5089.3	5336.1	5227.2	4900.7	4588.0	4278.4	4301.4
65°	3794.0	3850.7	4197.1	4859.3	5641.1	6617.6	6038.1	5135.3	4503.7	4103.6	4059.2
67.5°	3269.7	3312.6	3752.6	4451.6	5838.9	7405.5	6344.7	4804.2	3971.8	3453.7	3481.2
70°	2277.9	2299.4	2730.1	3646.8	5294.7	6988.6	5723.9	3689.7	2742.4	2185.9	2216.6
72.5°	916.7	968.8	1252.4	2196.7	3908.9	5310.0	3853.7	1936.1	1137.4	846.2	768.0
75°	338.8	340.3	400.1	755.7	1856.4	3337.2	1738.3	622.4	363.3	297.4	283.6
77.5°	196.2	194.7	208.5	272.9	538.1	1303.0	493.6	243.7	197.7	177.8	170.2
80°	122.6	121.1	142.6	180.9	236.1	357.2	208.5	151.8	133.4	115.0	115.0
82.5°	78.2	79.7	111.9	133.4	144.1	157.9	121.1	107.3	99.6	65.9	64.4
85°	50.6	46.0	78.2	88.9	79.7	70.5	67.4	56.7	52.1	32.2	35.3
87.5°	23.0	24.5	39.9	44.5	29.1	16.9	16.9	12.3	12.3	7.7	7.7
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)