

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: P479480

Luminaire Tested: **IFLD-S-SA2D-830-U-5MQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P479480
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2D-830-U-5MQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5MQ distribution lens
Light Source: (32) 3000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

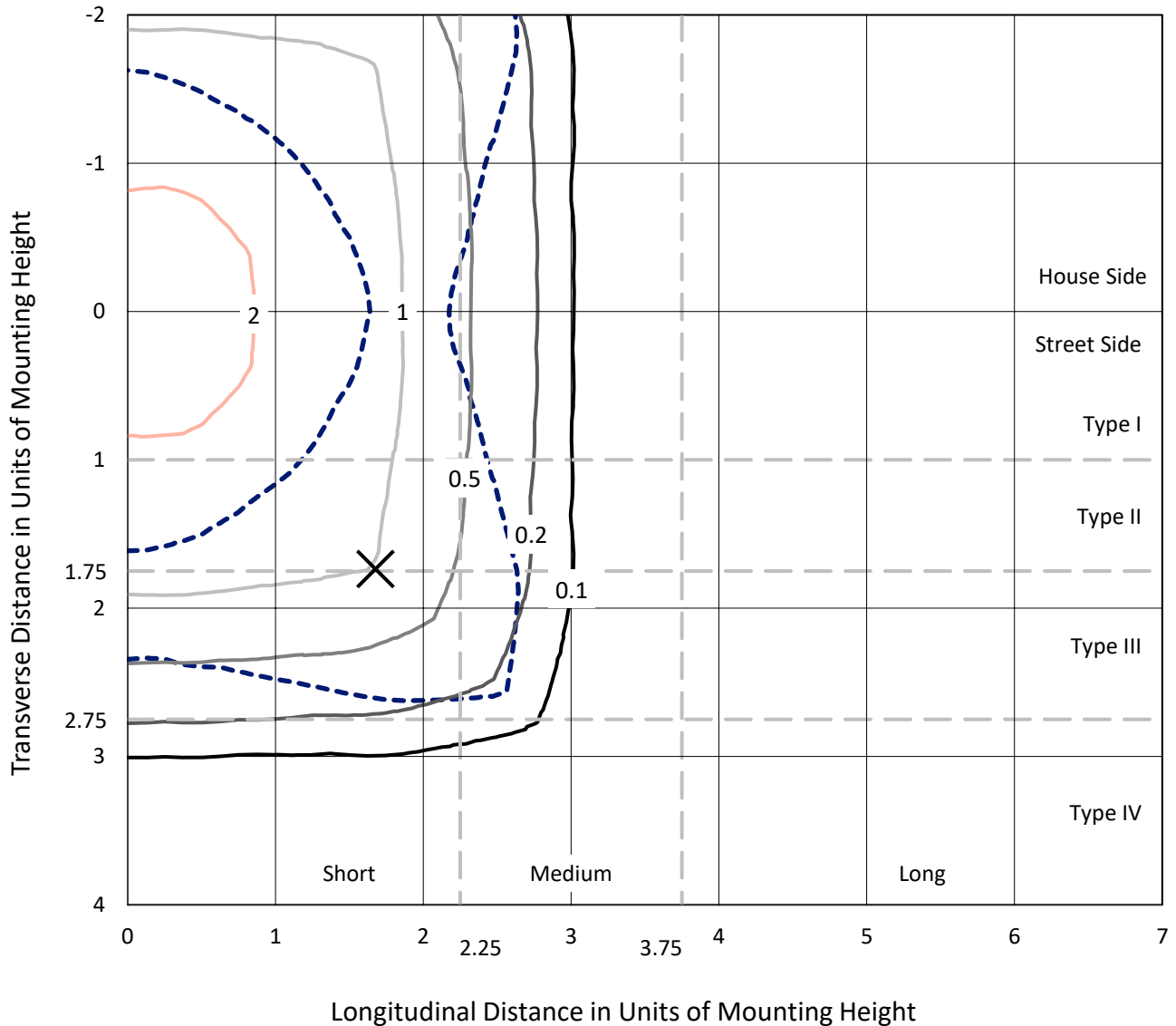
Lumens per Lamp: N/A
Luminaire Lumens: 12544.1 lumens
Efficiency: N/A
Efficacy: 101.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

Input Watts (W): 123.9
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

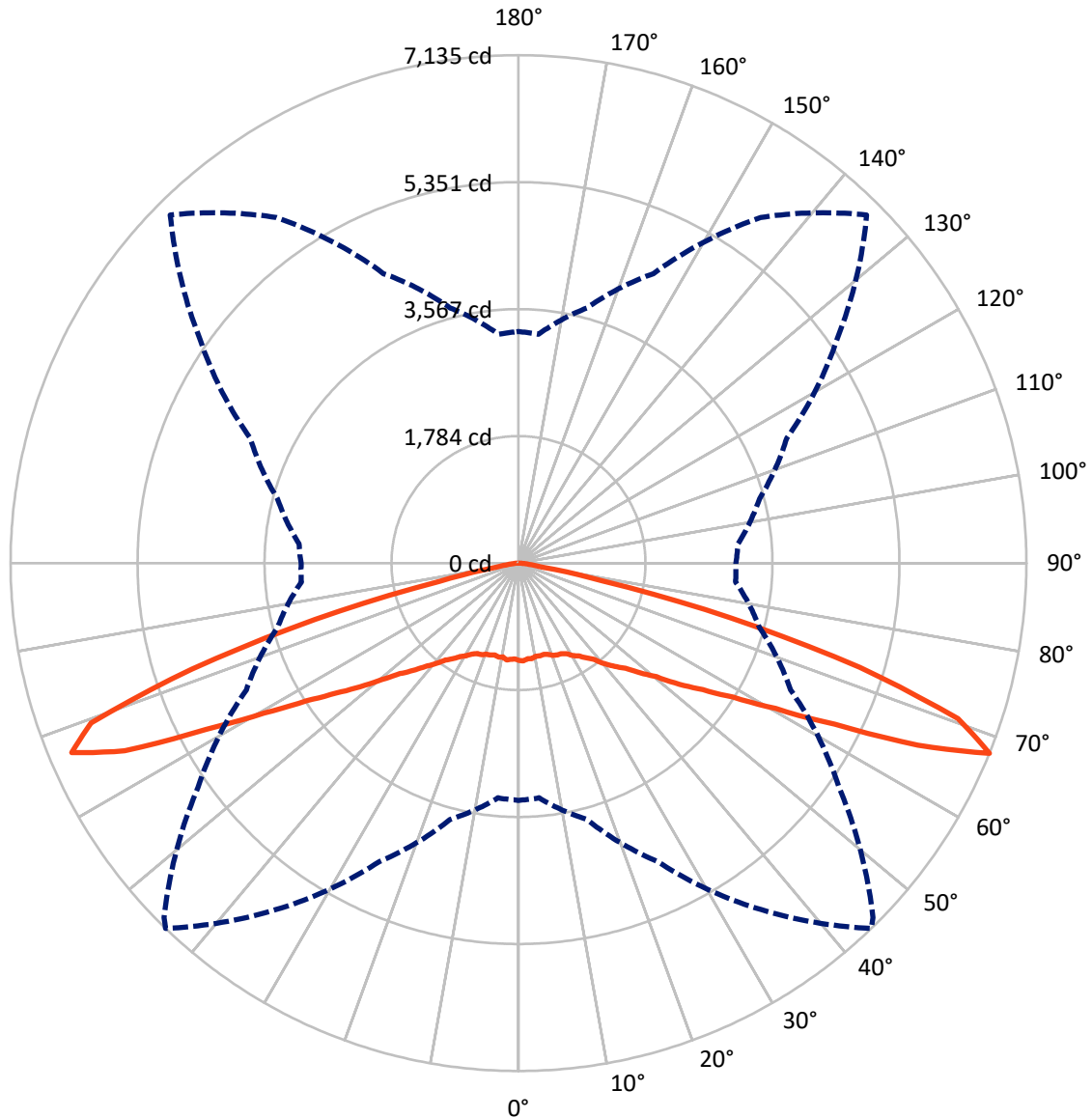
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 3.4 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	6256.0	0.0	6256.0
	% Fixture	49.9	0.0	49.9
Street Side	Lumens	6288.1	0.0	6288.1
	% Fixture	50.1	0.0	50.1
Total	Lumens	12544.1	0.0	12544.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	129.7	1.0
10°-20°	378.8	3.0
20°-30°	644.2	5.1
30°-40°	1021.4	8.1
40°-50°	1665.5	13.3
50°-60°	2844.4	22.7
60°-70°	4326.3	34.5
70°-80°	1458.2	11.6
80°-90°	75.7	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°	12544.1	100.0
0°-180°	12544.1	100.0

Coefficient of Utilization



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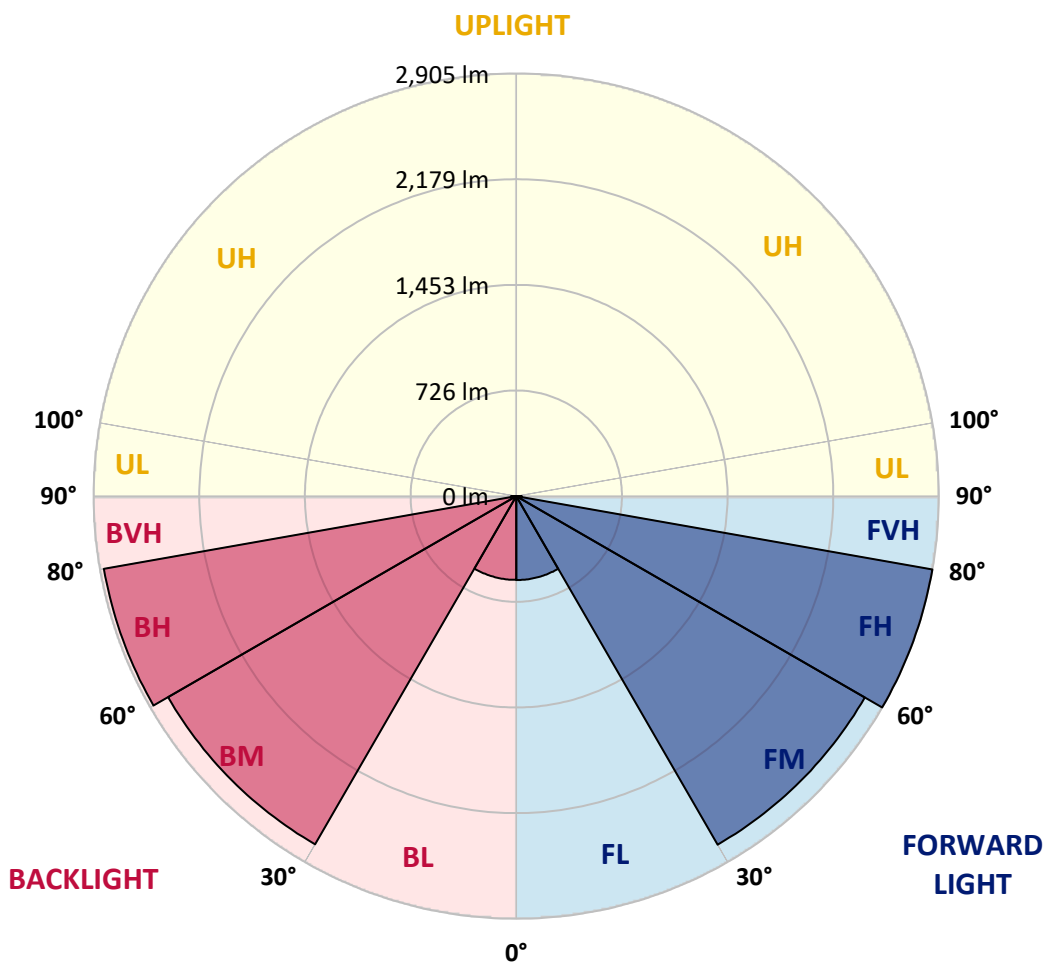
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	576.9	4.6			
FM (30°-60°)	2767.1	22.1			
FH (60°-80°)	2905.4	23.2			G2/5000
FVH (80°-90°)	38.7	0.3			G1/100
BL (0°-30°)	575.7	4.6	B2/1000		
BM (30°-60°)	2764.1	22.0	B3/5000		
BH (60°-80°)	2879.1	23.0	B4/5000		G2/5000
BVH (80°-90°)	37.0	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°	1370.2	1370.2	1370.2	1370.2	1370.2	1370.2	1370.2	1370.2	1370.2	1370.2	1370.2
2.5°	1338.7	1354.5	1365.9	1364.5	1368.8	1373.1	1367.4	1376.0	1370.2	1380.2	1386.0
5°	1364.5	1360.2	1361.6	1353.0	1373.1	1350.2	1350.2	1361.6	1376.0	1358.8	1368.8
7.5°	1348.7	1345.9	1338.7	1351.6	1355.9	1355.9	1367.4	1345.9	1370.2	1376.0	1377.4
10°	1331.6	1315.8	1337.3	1350.2	1353.0	1330.1	1340.2	1345.9	1338.7	1345.9	1350.2
12.5°	1317.2	1325.8	1325.8	1325.8	1321.5	1337.3	1347.3	1345.9	1331.6	1344.5	1321.5
15°	1315.8	1311.5	1324.4	1335.9	1328.7	1331.6	1335.9	1348.7	1321.5	1327.3	1327.3
17.5°	1314.4	1320.1	1324.4	1323.0	1347.3	1347.3	1343.0	1334.4	1355.9	1344.5	1328.7
20°	1320.1	1315.8	1327.3	1331.6	1348.7	1383.1	1370.2	1363.1	1351.6	1337.3	1337.3
22.5°	1327.3	1324.4	1340.2	1358.8	1391.7	1400.3	1398.9	1390.3	1370.2	1353.0	1350.2
25°	1353.0	1327.3	1344.5	1380.2	1391.7	1408.9	1420.3	1408.9	1381.7	1386.0	1360.2
27.5°	1391.7	1387.4	1410.3	1434.7	1424.6	1440.4	1430.4	1439.0	1440.4	1418.9	1393.1
30°	1437.5	1424.6	1439.0	1486.2	1490.5	1507.7	1490.5	1467.6	1474.7	1456.1	1443.2
32.5°	1503.4	1499.1	1526.3	1557.8	1563.5	1554.9	1546.3	1559.2	1529.2	1514.8	1491.9
35°	1546.3	1564.9	1597.9	1622.2	1640.8	1632.2	1636.5	1623.7	1630.8	1600.7	1590.7
37.5°	1673.8	1666.6	1673.8	1715.3	1719.6	1715.3	1719.6	1733.9	1723.9	1698.1	1672.3
40°	1794.0	1782.6	1799.8	1847.0	1844.1	1858.5	1829.8	1845.6	1845.6	1796.9	1786.9
42.5°	1884.2	1922.9	1942.9	1981.6	1995.9	1983.0	1977.3	1980.2	2011.7	1954.4	1932.9
45°	2070.4	2068.9	2129.1	2150.6	2110.5	2107.6	2096.1	2130.5	2152.0	2119.1	2110.5
47.5°	2272.3	2282.3	2316.6	2325.2	2349.6	2305.2	2305.2	2309.5	2385.4	2308.0	2268.0
50°	2454.1	2467.0	2535.7	2603.0	2557.2	2509.9	2528.5	2551.5	2593.0	2520.0	2485.6
52.5°	2674.6	2744.7	2790.6	2826.4	2859.3	2826.4	2783.4	2809.2	2890.8	2793.4	2750.5
55°	2992.4	3048.3	3091.2	3157.1	3184.3	3139.9	3135.6	3132.8	3178.6	3075.5	3016.8
57.5°	3347.5	3324.6	3393.3	3495.0	3593.8	3550.8	3538.0	3540.8	3552.3	3406.2	3361.8
60°	3788.5	3814.3	3895.9	3984.7	4089.2	4149.3	4064.9	4016.2	4026.2	3827.2	3758.5
62.5°	4040.5	4097.8	4282.5	4587.5	4797.9	4985.5	4998.4	4682.0	4470.1	4083.5	3791.4
65°	3918.8	3910.2	4258.2	4822.3	5619.8	6165.3	6083.7	5316.2	4576.0	3961.8	3569.5
67.5°	3333.2	3310.3	3731.3	4626.1	5943.4	7134.6	7041.6	5495.2	4218.1	3505.0	3061.2
70°	2147.7	2142.0	2598.7	3526.5	5306.2	6550.5	6584.8	4991.2	3433.4	2567.2	2127.6
72.5°	780.3	827.6	1092.5	1895.7	3603.8	5011.3	5032.8	3695.5	1974.4	1187.0	874.8
75°	287.8	296.4	345.1	615.7	1642.3	3076.9	3157.1	1792.6	701.6	386.6	315.0
77.5°	166.1	167.5	184.7	229.1	486.8	1201.3	1250.0	544.1	272.0	206.2	190.4
80°	113.1	111.7	130.3	148.9	194.7	340.8	362.2	227.7	171.8	143.2	120.3
82.5°	65.9	70.2	95.9	106.0	118.8	150.3	153.2	141.7	128.9	106.0	78.7
85°	40.1	32.9	53.0	58.7	68.7	67.3	67.3	77.3	83.0	74.5	44.4
87.5°	10.0	10.0	12.9	14.3	18.6	14.3	15.7	30.1	40.1	37.2	22.9
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°	1370.2	1370.2	1370.2	1370.2	1370.2	1370.2	1370.2	1370.2	1370.2	1370.2	1370.2
2.5°	1373.1	1368.8	1371.7	1387.4	1377.4	1347.3	1354.5	1370.2	1357.3	1350.2	1348.7
5°	1367.4	1376.0	1365.9	1368.8	1378.8	1354.5	1358.8	1378.8	1370.2	1373.1	1357.3
7.5°	1368.8	1373.1	1364.5	1351.6	1351.6	1371.7	1360.2	1363.1	1350.2	1371.7	1343.0
10°	1360.2	1348.7	1338.7	1345.9	1343.0	1337.3	1333.0	1341.6	1328.7	1347.3	1327.3
12.5°	1334.4	1337.3	1334.4	1331.6	1337.3	1351.6	1328.7	1331.6	1311.5	1314.4	1324.4
15°	1324.4	1333.0	1330.1	1345.9	1353.0	1331.6	1348.7	1331.6	1315.8	1307.2	1323.0
17.5°	1328.7	1341.6	1337.3	1348.7	1335.9	1351.6	1354.5	1347.3	1328.7	1321.5	1328.7
20°	1333.0	1328.7	1334.4	1354.5	1373.1	1357.3	1357.3	1353.0	1335.9	1325.8	1325.8
22.5°	1343.0	1335.9	1344.5	1360.2	1365.9	1390.3	1368.8	1358.8	1330.1	1304.4	1328.7
25°	1363.1	1367.4	1373.1	1367.4	1398.9	1396.0	1393.1	1386.0	1341.6	1343.0	1338.7
27.5°	1401.7	1377.4	1384.5	1418.9	1423.2	1434.7	1420.3	1433.2	1386.0	1387.4	1358.8
30°	1449.0	1423.2	1446.1	1476.2	1474.7	1496.2	1489.1	1491.9	1459.0	1440.4	1401.7
32.5°	1500.5	1497.7	1512.0	1530.6	1537.7	1549.2	1547.8	1547.8	1527.7	1479.0	1486.2
35°	1557.8	1577.8	1595.0	1615.1	1617.9	1632.2	1612.2	1615.1	1595.0	1559.2	1570.7
37.5°	1670.9	1669.5	1688.1	1712.4	1715.3	1703.8	1719.6	1712.4	1685.2	1660.9	1642.3
40°	1802.6	1774.0	1791.2	1848.4	1852.7	1832.7	1831.3	1829.8	1809.8	1756.8	1745.4
42.5°	1917.2	1954.4	1951.5	1970.1	1957.3	1947.2	1983.0	1963.0	1947.2	1891.4	1881.4
45°	2064.6	2076.1	2113.3	2173.5	2111.9	2111.9	2136.2	2120.5	2111.9	2070.4	2031.7
47.5°	2247.9	2257.9	2332.4	2336.7	2296.6	2269.4	2345.3	2348.1	2312.3	2280.8	2233.6
50°	2462.7	2467.0	2534.3	2603.0	2558.6	2507.1	2584.4	2614.5	2534.3	2491.3	2432.6
52.5°	2698.9	2686.0	2741.9	2870.7	2827.8	2812.0	2895.1	2902.2	2793.4	2726.1	2741.9
55°	2971.0	2953.8	3105.6	3192.9	3165.7	3137.1	3174.3	3191.5	3104.1	2993.9	3032.5
57.5°	3323.2	3331.8	3407.7	3493.6	3538.0	3545.1	3562.3	3545.1	3456.3	3344.7	3308.9
60°	3675.4	3701.2	3848.7	4010.5	4024.8	4150.8	4127.9	4042.0	3916.0	3757.0	3764.2
62.5°	3805.7	3784.2	4021.9	4417.1	4753.6	4984.1	4882.4	4577.4	4285.4	3996.1	4017.6
65°	3543.7	3596.7	3920.2	4538.8	5269.0	6181.0	5639.8	4796.5	4206.6	3832.9	3791.4
67.5°	3054.0	3094.1	3505.0	4157.9	5453.7	6917.0	5926.2	4487.2	3709.8	3225.8	3251.6
70°	2127.6	2147.7	2550.0	3406.2	4945.4	6527.5	5346.3	3446.3	2561.5	2041.7	2070.4
72.5°	856.2	904.9	1169.8	2051.8	3651.1	4959.7	3599.5	1808.4	1062.4	790.3	717.3
75°	316.4	317.9	373.7	705.9	1733.9	3117.0	1623.7	581.3	339.3	277.8	264.9
77.5°	183.3	181.8	194.7	254.9	502.6	1217.0	461.0	227.7	184.7	166.1	158.9
80°	114.5	113.1	133.2	169.0	220.5	333.6	194.7	141.7	124.6	107.4	107.4
82.5°	73.0	74.5	104.5	124.6	134.6	147.5	113.1	100.2	93.1	61.6	60.1
85°	47.2	43.0	73.0	83.0	74.5	65.9	63.0	53.0	48.7	30.1	32.9
87.5°	21.5	22.9	37.2	41.5	27.2	15.7	15.7	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)