

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: P481157

Luminaire Tested: **IFLD-S-SA2D-727-U-RW**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481157
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2D-727-U-RW
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ RW distribution lens
Light Source: (32) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

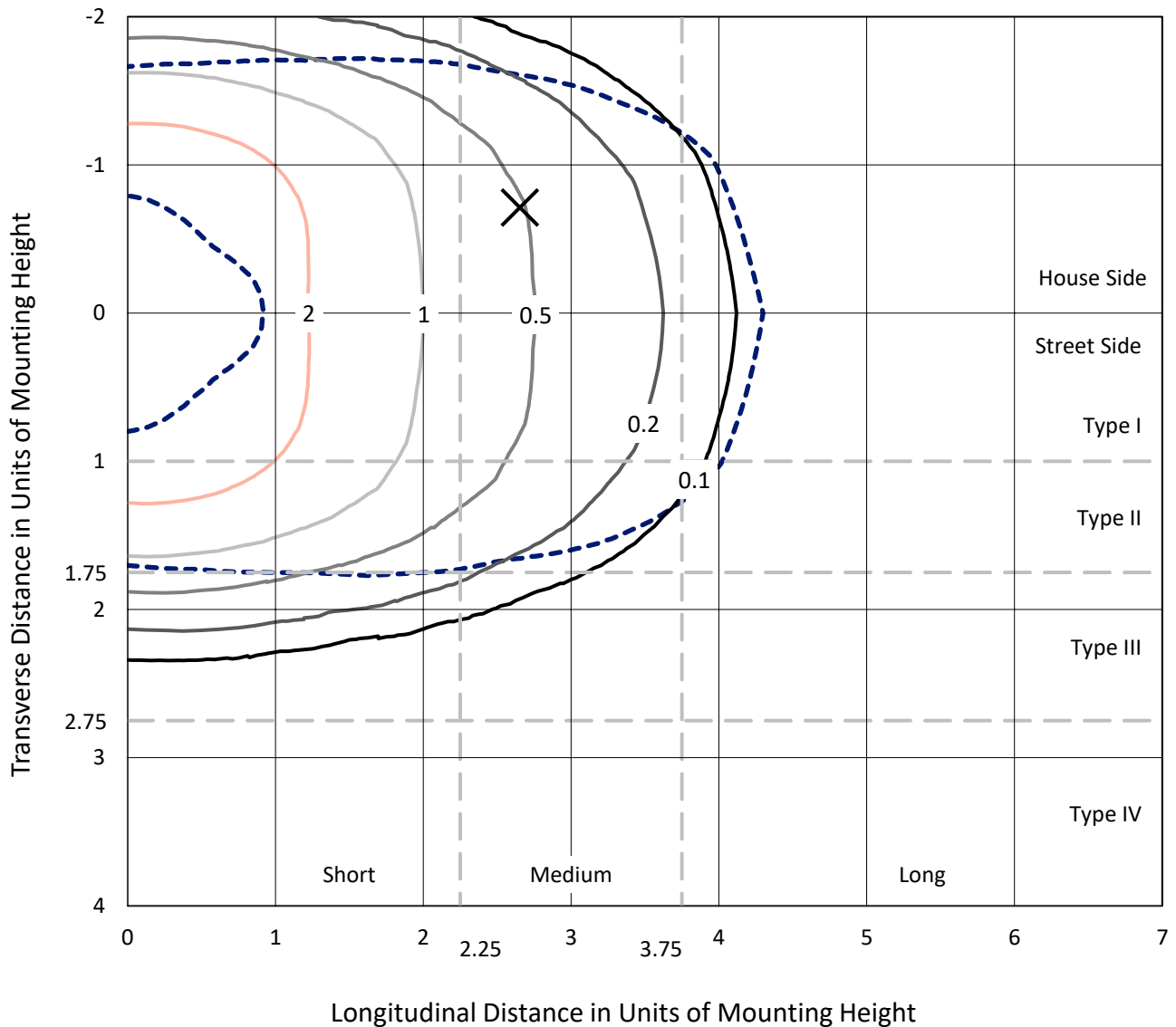
Lumens per Lamp: N/A
Luminaire Lumens: 13472.1 lumens
Efficiency: N/A
Efficacy: 108.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

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

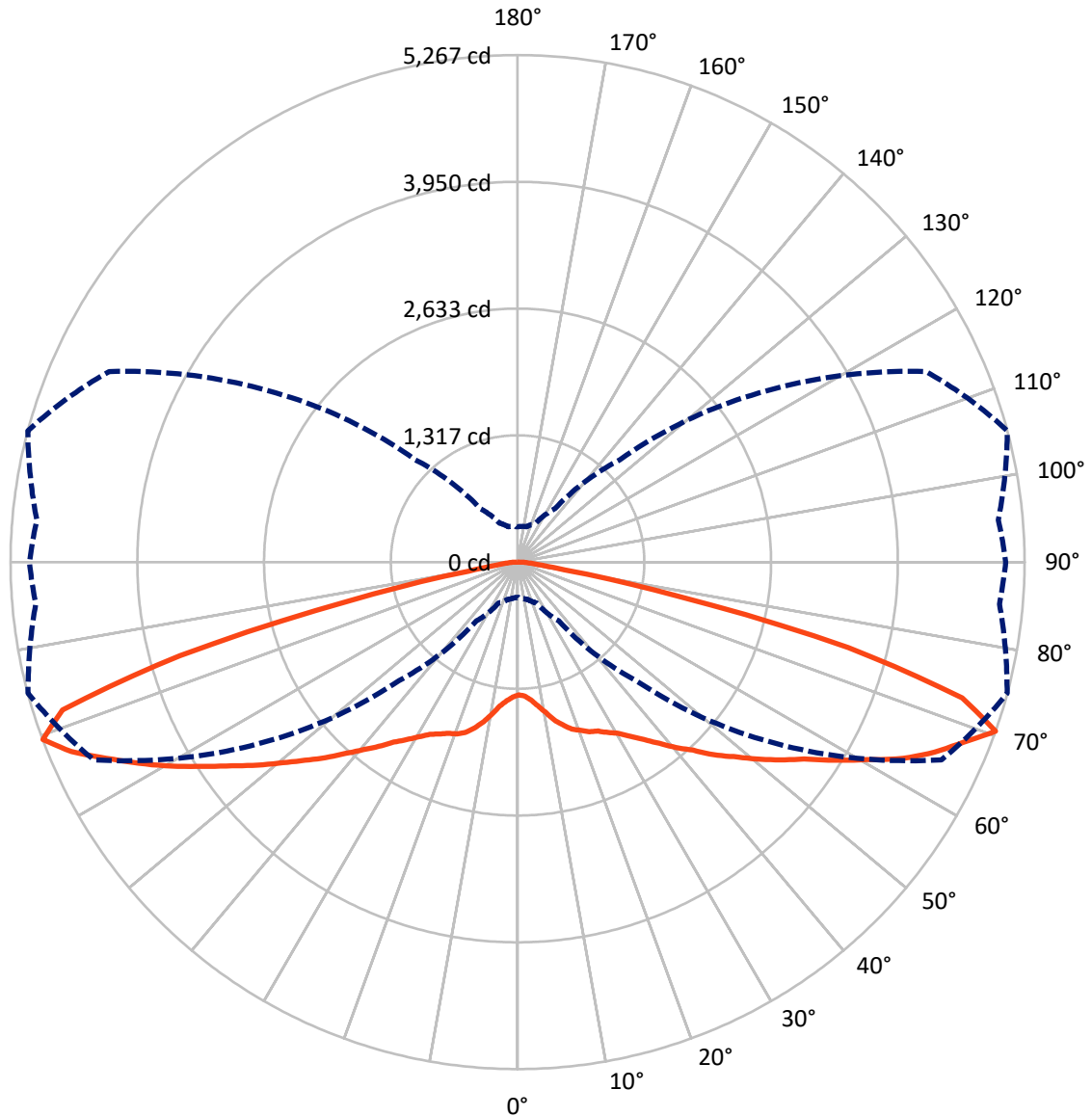
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 105-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6688.1	0.0	6688.1
	% Fixture	49.6	0.0	49.6
Street Side	Lumens	6784.0	0.0	6784.0
	% Fixture	50.4	0.0	50.4
Total	Lumens	13472.1	0.0	13472.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	137.3	1.0
10°-20°	467.5	3.5
20°-30°	905.3	6.7
30°-40°	1531.2	11.4
40°-50°	2442.7	18.1
50°-60°	3343.6	24.8
60°-70°	3151.6	23.4
70°-80°	1388.4	10.3
80°-90°	104.5	0.8
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°	13472.1	100.0
0°-180°	13472.1	100.0

Coefficient of Utilization

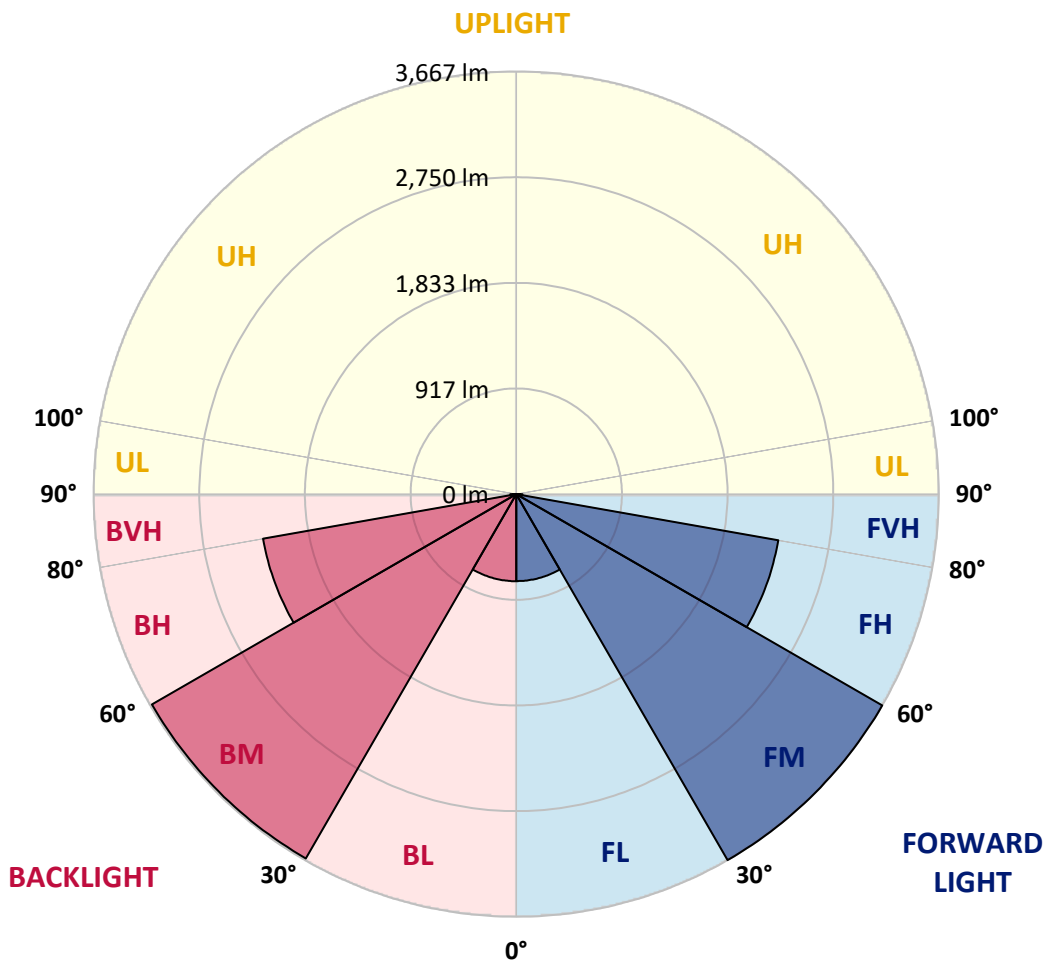


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	754.7	5.6			
FM (30°-60°)	3667.0	27.2			
FH (60°-80°)	2309.0	17.1			G2/5000
FVH (80°-90°)	53.4	0.4			G1/100
BL (0°-30°)	755.5	5.6	B2/1000		
BM (30°-60°)	3650.6	27.1	B3/5000		
BH (60°-80°)	2231.0	16.6	B3/2500		G3/2500
BVH (80°-90°)	51.1	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1379.5	1379.5	1379.5	1379.5	1379.5	1379.5	1379.5	1379.5	1379.5	1379.5	1379.5
2.5°	1370.8	1370.8	1369.4	1376.6	1383.9	1386.8	1392.6	1394.0	1402.8	1395.5	1410.0
5°	1366.5	1365.0	1376.6	1394.0	1394.0	1412.9	1424.5	1440.5	1444.9	1453.6	1456.5
7.5°	1397.0	1394.0	1388.2	1407.1	1423.1	1452.1	1468.1	1495.7	1505.9	1517.5	1530.5
10°	1415.8	1415.8	1410.0	1443.4	1457.9	1497.1	1532.0	1559.6	1598.8	1611.9	1613.3
12.5°	1418.7	1423.1	1440.5	1484.1	1524.7	1575.6	1601.7	1654.0	1693.2	1717.9	1726.6
15°	1462.3	1453.6	1472.5	1532.0	1591.5	1636.6	1683.0	1720.8	1777.4	1809.4	1829.7
17.5°	1501.5	1492.8	1527.6	1598.8	1659.8	1729.5	1770.2	1810.8	1851.5	1880.5	1882.0
20°	1563.9	1571.2	1601.7	1678.7	1758.5	1819.5	1866.0	1873.3	1893.6	1935.7	1928.4
22.5°	1640.9	1635.1	1699.0	1783.2	1870.3	1921.2	1947.3	1928.4	1918.3	1963.3	1973.4
25°	1717.9	1735.3	1793.4	1871.8	1976.4	2044.6	2051.9	1999.6	1961.8	1977.8	1973.4
27.5°	1835.5	1838.4	1899.4	1992.3	2098.3	2157.9	2153.5	2079.5	2006.8	2008.3	2011.2
30°	1986.5	1972.0	2038.8	2123.0	2227.6	2281.3	2288.6	2182.6	2085.3	2056.2	2063.5
32.5°	2131.7	2149.2	2207.2	2303.1	2380.0	2410.5	2394.6	2300.2	2173.8	2134.6	2139.0
35°	2317.6	2314.7	2394.6	2475.9	2534.0	2539.8	2526.7	2388.8	2269.7	2218.9	2198.5
37.5°	2516.5	2542.7	2595.0	2661.8	2722.8	2725.7	2654.5	2544.1	2397.5	2313.2	2337.9
40°	2738.7	2767.8	2805.5	2902.8	2947.8	2901.4	2828.8	2679.2	2526.7	2452.7	2464.3
42.5°	2934.8	2947.8	3024.8	3139.5	3161.3	3141.0	3033.5	2852.0	2674.8	2593.5	2599.3
45°	3114.8	3132.3	3232.4	3335.6	3386.4	3351.5	3226.6	3053.8	2847.6	2777.9	2750.3
47.5°	3280.4	3315.2	3412.5	3518.5	3596.9	3599.8	3445.9	3236.8	3019.0	2927.5	2926.0
50°	3392.2	3443.0	3538.8	3659.4	3774.1	3819.1	3665.2	3440.1	3206.3	3109.0	3098.9
52.5°	3453.2	3505.5	3601.3	3788.6	3916.4	3986.1	3913.5	3630.3	3425.6	3323.9	3308.0
55°	3379.1	3414.0	3570.8	3833.6	4031.1	4145.8	4097.9	3893.2	3643.4	3560.6	3575.2
57.5°	3064.0	3136.6	3329.7	3657.9	4028.2	4309.9	4305.6	4141.5	3894.6	3816.2	3819.1
60°	2522.4	2583.3	2821.5	3280.4	3865.6	4376.7	4530.7	4382.5	4176.3	4084.9	4081.9
62.5°	1780.3	1857.3	2133.2	2634.2	3386.4	4283.8	4789.1	4686.0	4452.2	4385.4	4410.1
65°	996.2	1042.6	1298.2	1751.3	2580.4	3772.6	4835.6	5001.1	4732.5	4630.9	4635.2
67.5°	532.9	550.4	669.4	919.2	1578.5	2908.6	4366.6	5182.7	5036.0	4860.3	4832.7
70°	365.9	371.7	402.2	470.5	746.4	1739.7	3293.4	4858.8	5264.0	5024.4	5070.9
72.5°	309.3	306.4	313.7	320.9	390.6	778.3	1932.8	3739.2	4969.2	4879.2	4861.7
75°	268.6	267.2	270.1	262.8	271.5	342.7	855.3	2330.7	3637.6	4060.2	4125.5
77.5°	222.2	223.6	225.1	217.8	214.9	226.5	344.2	1023.8	1790.5	1976.4	2131.7
80°	168.4	171.4	183.0	175.7	164.1	165.5	203.3	342.7	514.1	466.1	480.7
82.5°	114.7	116.2	140.9	132.1	123.4	111.8	130.7	177.2	200.4	152.5	133.6
85°	81.3	79.9	91.5	84.2	78.4	56.6	78.4	100.2	120.5	75.5	68.3
87.5°	18.9	18.9	37.8	30.5	29.0	23.2	30.5	39.2	52.3	33.4	30.5
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1379.5	1379.5	1379.5	1379.5	1379.5	1379.5	1379.5	1379.5	1379.5	1379.5
2.5°	1405.7	1392.6	1392.6	1389.7	1378.1	1375.2	1365.0	1367.9	1360.6	1353.4
5°	1455.0	1437.6	1437.6	1412.9	1389.7	1386.8	1375.2	1375.2	1363.6	1366.5
7.5°	1523.3	1507.3	1481.2	1459.4	1427.4	1414.4	1392.6	1389.7	1386.8	1381.0
10°	1604.6	1584.3	1558.1	1513.1	1487.0	1462.3	1440.5	1410.0	1402.8	1404.2
12.5°	1715.0	1683.0	1626.4	1587.2	1553.8	1521.8	1489.9	1444.9	1434.7	1439.1
15°	1793.4	1752.7	1696.1	1681.6	1636.6	1597.3	1545.1	1494.2	1476.8	1472.5
17.5°	1857.3	1823.9	1790.5	1768.7	1732.4	1684.5	1611.9	1553.8	1514.6	1510.2
20°	1909.6	1866.0	1858.7	1871.8	1826.8	1794.8	1706.3	1635.1	1582.8	1561.0
22.5°	1941.5	1913.9	1934.2	1945.9	1943.0	1889.2	1797.7	1715.0	1649.6	1629.3
25°	1976.4	1944.4	2017.0	2056.2	2066.4	1977.8	1906.7	1797.7	1733.8	1720.8
27.5°	1993.8	2005.4	2089.6	2172.4	2165.1	2096.9	2001.0	1903.7	1852.9	1829.7
30°	2044.6	2063.5	2191.3	2284.2	2285.7	2218.9	2146.3	2035.9	1979.3	1969.1
32.5°	2136.1	2159.3	2295.8	2394.6	2412.0	2361.2	2288.6	2220.3	2162.2	2139.0
35°	2205.8	2265.3	2419.3	2509.3	2555.8	2525.3	2484.6	2413.4	2352.5	2332.1
37.5°	2306.0	2388.8	2536.9	2658.9	2711.1	2708.2	2677.7	2600.8	2549.9	2532.5
40°	2449.7	2532.5	2667.6	2828.8	2926.0	2921.7	2904.3	2844.7	2769.2	2760.5
42.5°	2602.2	2670.5	2846.2	3030.6	3170.0	3155.5	3109.0	3039.3	2987.0	2975.4
45°	2750.3	2856.3	3019.0	3255.7	3360.2	3396.5	3341.4	3222.3	3162.7	3155.5
47.5°	2936.2	3020.4	3223.7	3435.7	3591.1	3596.9	3502.5	3392.2	3283.3	3306.5
50°	3101.8	3213.6	3419.8	3652.1	3838.0	3771.2	3650.7	3512.7	3434.3	3403.8
52.5°	3278.9	3415.4	3655.0	3891.7	3994.8	3928.0	3732.0	3578.1	3459.0	3445.9
55°	3537.4	3608.6	3922.2	4103.7	4137.1	3996.3	3707.3	3489.5	3335.6	3297.8
57.5°	3800.2	3883.0	4157.5	4314.3	4279.4	3958.5	3547.6	3210.7	3008.8	2955.1
60°	4066.0	4167.6	4398.5	4542.3	4362.2	3698.6	3095.9	2661.8	2426.5	2378.6
62.5°	4362.2	4494.4	4700.6	4751.4	4116.8	3184.5	2457.0	1921.2	1683.0	1603.2
65°	4625.0	4760.1	5014.2	4707.8	3595.5	2375.7	1588.6	1097.8	922.1	858.2
67.5°	4841.4	4993.9	5118.8	4166.2	2632.7	1391.1	827.7	577.9	512.6	489.4
70°	5012.8	5266.9	4683.1	3062.5	1504.4	678.1	447.3	380.5	371.7	365.9
72.5°	4863.2	4829.8	3496.7	1767.2	659.3	373.2	323.8	313.7	312.2	313.7
75°	3977.4	3547.6	2091.1	768.2	331.1	270.1	268.6	264.3	271.5	271.5
77.5°	1929.9	1687.4	874.2	329.6	217.8	212.0	219.3	219.3	219.3	219.3
80°	447.3	495.2	312.2	200.4	158.3	158.3	174.3	175.7	168.4	165.5
82.5°	152.5	203.3	171.4	126.3	104.6	117.6	132.1	135.0	111.8	113.3
85°	75.5	119.1	92.9	72.6	53.7	72.6	85.7	90.0	77.0	74.1
87.5°	34.9	52.3	34.9	24.7	18.9	26.1	24.7	20.3	11.6	11.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)