

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: P481430

Luminaire Tested: **IFLD-S-SA2D-830-U-RW**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481430
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-RW
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ RW distribution lens
Light Source: (32) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

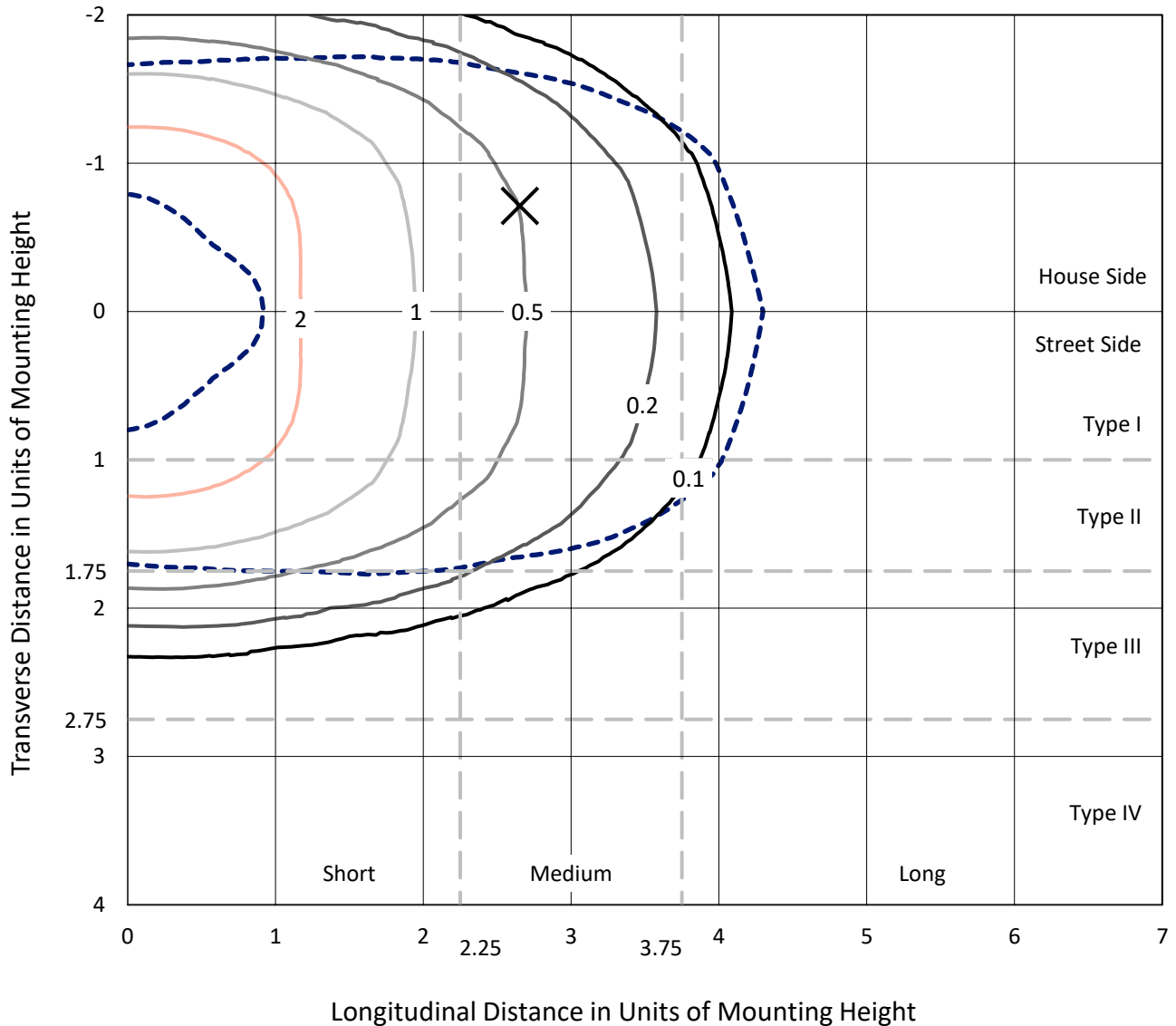
Lumens per Lamp: N/A
Luminaire Lumens: 12800.3 lumens
Efficiency: N/A
Efficacy: 103.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

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

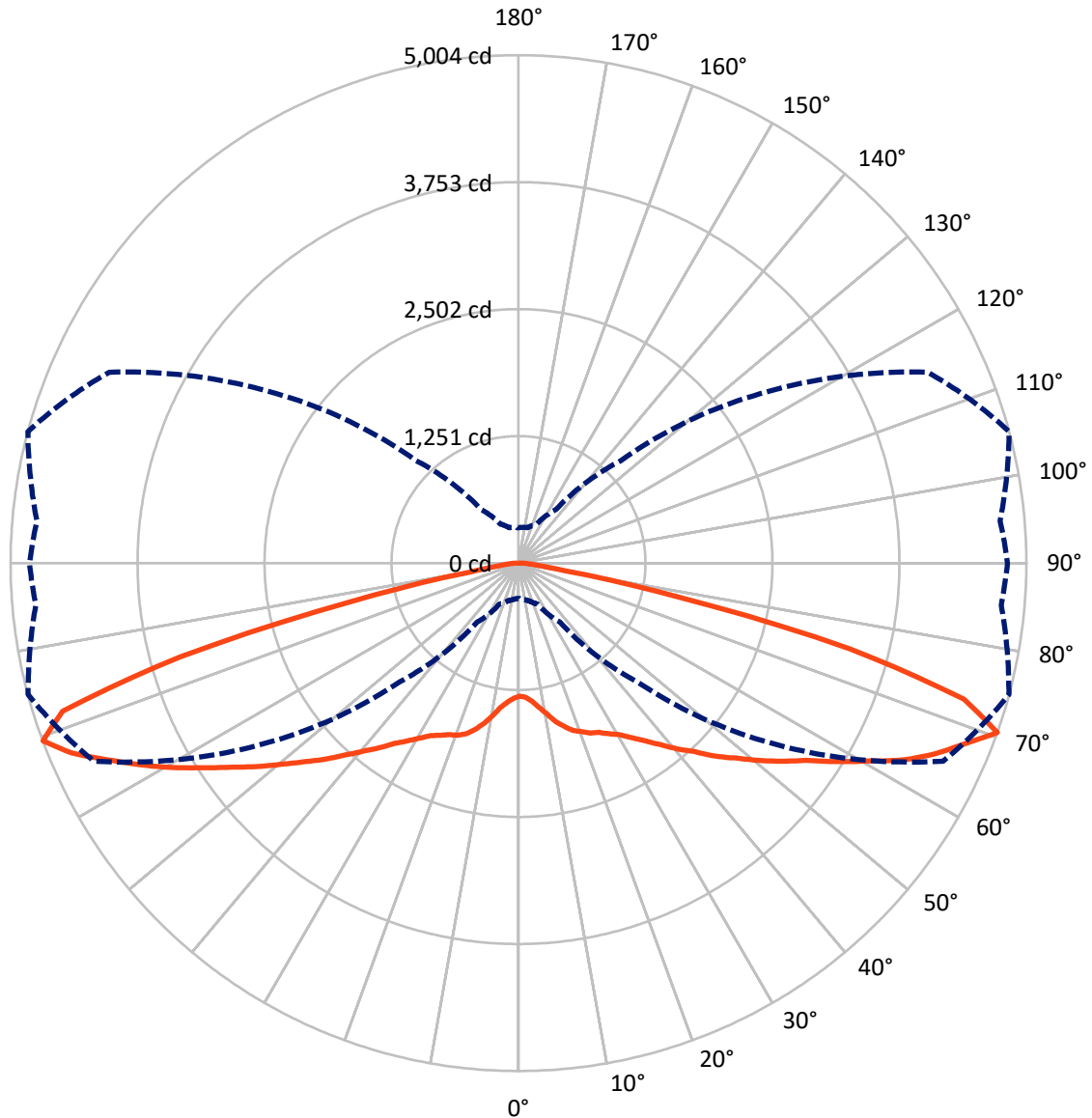
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 3.9 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	6354.6	0.0	6354.6
	% Fixture	49.6	0.0	49.6
Street Side	Lumens	6445.7	0.0	6445.7
	% Fixture	50.4	0.0	50.4
Total	Lumens	12800.3	0.0	12800.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	130.5	1.0
10°-20°	444.2	3.5
20°-30°	860.2	6.7
30°-40°	1454.9	11.4
40°-50°	2321.0	18.1
50°-60°	3176.9	24.8
60°-70°	2994.4	23.4
70°-80°	1319.1	10.3
80°-90°	99.2	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°	12800.3	100.0
0°-180°	12800.3	100.0

Coefficient of Utilization



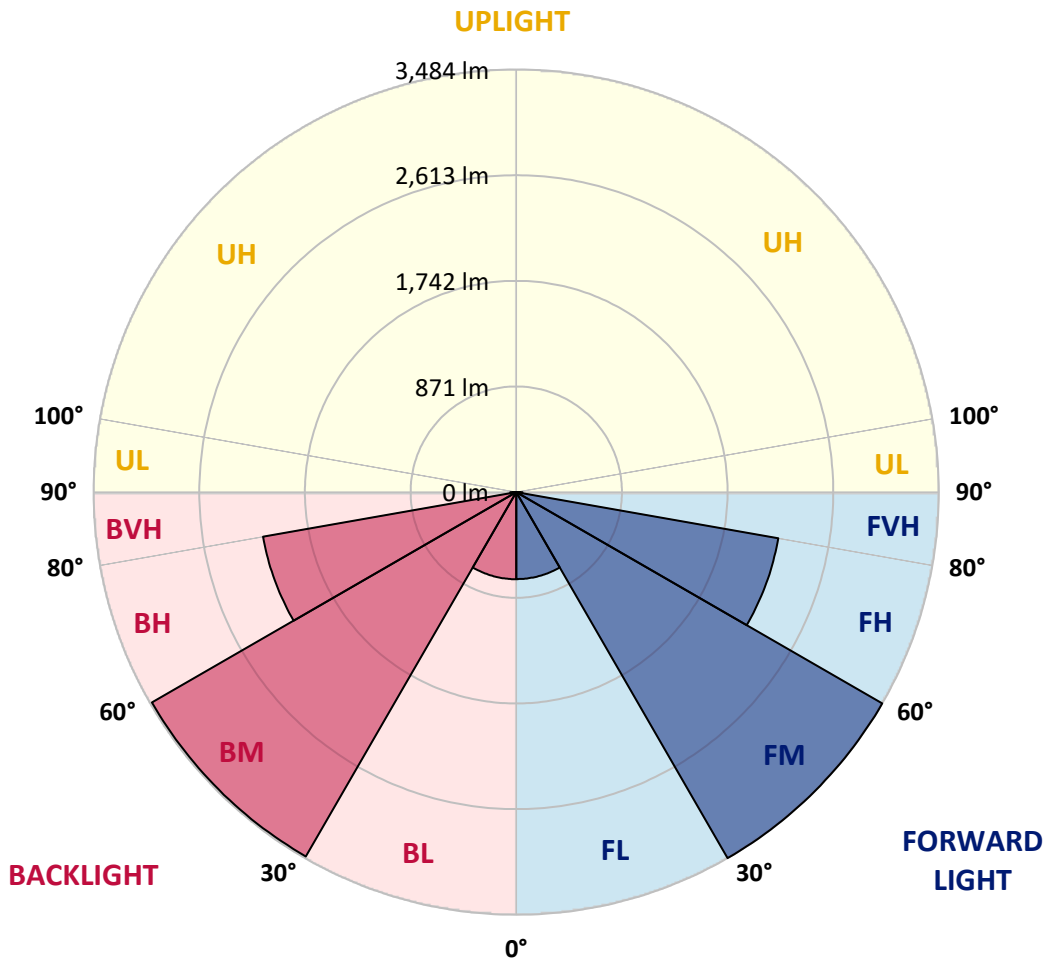
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	717.0	5.6			
FM (30°-60°)	3484.1	27.2			
FH (60°-80°)	2193.8	17.1			G2/5000
FVH (80°-90°)	50.7	0.4			G1/100
BL (0°-30°)	717.8	5.6	B2/1000		
BM (30°-60°)	3468.6	27.1	B3/5000		
BH (60°-80°)	2119.7	16.6	B3/2500		G3/2500
BVH (80°-90°)	48.5	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°	1310.7	1310.7	1310.7	1310.7	1310.7	1310.7	1310.7	1310.7	1310.7	1310.7	1310.7
2.5°	1302.5	1302.5	1301.1	1308.0	1314.9	1317.6	1323.2	1324.5	1332.8	1325.9	1339.7
5°	1298.3	1296.9	1308.0	1324.5	1324.5	1342.5	1353.5	1368.7	1372.8	1381.1	1383.9
7.5°	1327.3	1324.5	1319.0	1337.0	1352.1	1379.7	1394.9	1421.1	1430.8	1441.8	1454.2
10°	1345.2	1345.2	1339.7	1371.4	1385.2	1422.5	1455.6	1481.8	1519.1	1531.5	1532.9
12.5°	1348.0	1352.1	1368.7	1410.1	1448.7	1497.0	1521.8	1571.5	1608.8	1632.2	1640.5
15°	1389.4	1381.1	1399.0	1455.6	1512.2	1555.0	1599.1	1635.0	1688.8	1719.1	1738.5
17.5°	1426.6	1418.4	1451.5	1519.1	1577.0	1643.3	1681.9	1720.5	1759.2	1786.7	1788.1
20°	1486.0	1492.9	1521.8	1595.0	1670.8	1728.8	1772.9	1779.8	1799.2	1839.2	1832.3
22.5°	1559.1	1553.6	1614.3	1694.3	1777.1	1825.4	1850.2	1832.3	1822.6	1865.4	1875.0
25°	1632.2	1648.8	1704.0	1778.5	1877.8	1942.7	1949.6	1899.9	1864.0	1879.2	1875.0
27.5°	1744.0	1746.7	1804.7	1893.0	1993.7	2050.3	2046.1	1975.8	1906.8	1908.2	1910.9
30°	1887.5	1873.7	1937.1	2017.2	2116.5	2167.6	2174.4	2073.7	1981.3	1953.7	1960.6
32.5°	2025.4	2042.0	2097.2	2188.2	2261.4	2290.3	2275.2	2185.5	2065.5	2028.2	2032.3
35°	2202.0	2199.3	2275.2	2352.4	2407.6	2413.1	2400.7	2269.7	2156.5	2108.2	2088.9
37.5°	2391.1	2415.9	2465.6	2529.0	2587.0	2589.7	2522.1	2417.3	2277.9	2197.9	2221.4
40°	2602.2	2629.8	2665.6	2758.1	2800.8	2756.7	2687.7	2545.6	2400.7	2330.4	2341.4
42.5°	2788.4	2800.8	2874.0	2983.0	3003.7	2984.3	2882.2	2709.8	2541.5	2464.2	2469.7
45°	2959.5	2976.1	3071.3	3169.2	3217.5	3184.4	3065.8	2901.6	2705.6	2639.4	2613.2
47.5°	3116.8	3149.9	3242.4	3343.1	3417.6	3420.3	3274.1	3075.4	2868.5	2781.5	2780.1
50°	3223.0	3271.3	3362.4	3476.9	3585.9	3628.7	3482.4	3268.6	3046.4	2954.0	2944.3
52.5°	3281.0	3330.7	3421.7	3599.7	3721.1	3787.3	3718.4	3449.3	3254.8	3158.2	3143.0
55°	3210.6	3243.7	3392.7	3642.5	3830.1	3939.1	3893.6	3699.0	3461.7	3383.1	3396.9
57.5°	2911.2	2980.2	3163.7	3475.5	3827.4	4095.0	4090.9	3935.0	3700.4	3625.9	3628.7
60°	2396.6	2454.5	2680.8	3116.8	3672.8	4158.5	4304.7	4164.0	3968.1	3881.2	3878.4
62.5°	1691.5	1764.7	2026.8	2502.8	3217.5	4070.2	4550.3	4452.4	4230.2	4166.8	4190.2
65°	946.5	990.6	1233.5	1664.0	2451.8	3584.5	4594.5	4751.8	4496.5	4399.9	4404.1
67.5°	506.4	522.9	636.1	873.4	1499.8	2763.6	4148.8	4924.2	4784.9	4617.9	4591.7
70°	347.7	353.2	382.2	447.0	709.2	1652.9	3129.2	4616.6	5001.5	4773.9	4818.0
72.5°	293.9	291.1	298.0	304.9	371.1	739.5	1836.4	3552.8	4721.4	4635.9	4619.3
75°	255.2	253.9	256.6	249.7	258.0	325.6	812.7	2214.5	3456.2	3857.7	3919.8
77.5°	211.1	212.5	213.9	207.0	204.2	215.2	327.0	972.7	1701.2	1877.8	2025.4
80°	160.0	162.8	173.8	166.9	155.9	157.3	193.2	325.6	488.4	442.9	456.7
82.5°	109.0	110.4	133.8	125.6	117.3	106.2	124.2	168.3	190.4	144.9	126.9
85°	77.3	75.9	86.9	80.0	74.5	53.8	74.5	95.2	114.5	71.7	64.8
87.5°	17.9	17.9	35.9	29.0	27.6	22.1	29.0	37.3	49.7	31.7	29.0
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°	1310.7	1310.7	1310.7	1310.7	1310.7	1310.7	1310.7	1310.7	1310.7	1310.7
2.5°	1335.6	1323.2	1323.2	1320.4	1309.4	1306.6	1296.9	1299.7	1292.8	1285.9
5°	1382.5	1365.9	1365.9	1342.5	1320.4	1317.6	1306.6	1306.6	1295.6	1298.3
7.5°	1447.3	1432.2	1407.3	1386.6	1356.3	1343.9	1323.2	1320.4	1317.6	1312.1
10°	1524.6	1505.3	1480.4	1437.7	1412.8	1389.4	1368.7	1339.7	1332.8	1334.2
12.5°	1629.5	1599.1	1545.3	1508.0	1476.3	1446.0	1415.6	1372.8	1363.2	1367.3
15°	1704.0	1665.3	1611.5	1597.7	1555.0	1517.7	1468.0	1419.7	1403.2	1399.0
17.5°	1764.7	1732.9	1701.2	1680.5	1646.0	1600.5	1531.5	1476.3	1439.1	1434.9
20°	1814.3	1772.9	1766.0	1778.5	1735.7	1705.3	1621.2	1553.6	1503.9	1483.2
22.5°	1844.7	1818.5	1837.8	1848.8	1846.1	1795.0	1708.1	1629.5	1567.4	1548.1
25°	1877.8	1847.5	1916.4	1953.7	1963.4	1879.2	1811.6	1708.1	1647.4	1635.0
27.5°	1894.4	1905.4	1985.4	2064.1	2057.2	1992.3	1901.3	1808.8	1760.5	1738.5
30°	1942.7	1960.6	2082.0	2170.3	2171.7	2108.2	2039.2	1934.4	1880.6	1870.9
32.5°	2029.6	2051.7	2181.3	2275.2	2291.7	2243.4	2174.4	2109.6	2054.4	2032.3
35°	2095.8	2152.4	2298.6	2384.2	2428.3	2399.3	2360.7	2293.1	2235.2	2215.8
37.5°	2191.0	2269.7	2410.4	2526.3	2575.9	2573.2	2544.2	2471.1	2422.8	2406.2
40°	2327.6	2406.2	2534.6	2687.7	2780.1	2776.0	2759.5	2702.9	2631.1	2622.9
42.5°	2472.5	2537.3	2704.3	2879.5	3011.9	2998.1	2954.0	2887.8	2838.1	2827.1
45°	2613.2	2713.9	2868.5	3093.3	3192.7	3227.2	3174.8	3061.6	3005.0	2998.1
47.5°	2789.8	2869.8	3063.0	3264.4	3412.1	3417.6	3327.9	3223.0	3119.6	3141.6
50°	2947.1	3053.3	3249.3	3470.0	3646.6	3583.1	3468.6	3337.6	3263.1	3234.1
52.5°	3115.4	3245.1	3472.8	3697.7	3795.6	3732.2	3545.9	3399.6	3286.5	3274.1
55°	3361.0	3428.6	3726.6	3899.1	3930.8	3797.0	3522.4	3315.5	3169.2	3133.4
57.5°	3610.7	3689.4	3950.2	4099.2	4066.1	3761.1	3370.7	3050.6	2858.8	2807.7
60°	3863.2	3959.8	4179.2	4315.8	4144.7	3514.2	2941.6	2529.0	2305.5	2260.0
62.5°	4144.7	4270.3	4466.2	4514.5	3911.5	3025.7	2334.5	1825.4	1599.1	1523.2
65°	4394.4	4522.7	4764.2	4473.1	3416.2	2257.2	1509.4	1043.1	876.1	815.4
67.5°	4600.0	4744.9	4863.5	3958.4	2501.4	1321.8	786.4	549.1	487.0	465.0
70°	4762.8	5004.3	4449.6	2909.8	1429.4	644.3	425.0	361.5	353.2	347.7
72.5°	4620.7	4589.0	3322.4	1679.1	626.4	354.6	307.7	298.0	296.6	298.0
75°	3779.1	3370.7	1986.8	729.9	314.6	256.6	255.2	251.1	258.0	258.0
77.5°	1833.7	1603.2	830.6	313.2	207.0	201.4	208.3	208.3	208.3	208.3
80°	425.0	470.5	296.6	190.4	150.4	150.4	165.6	166.9	160.0	157.3
82.5°	144.9	193.2	162.8	120.0	99.3	111.8	125.6	128.3	106.2	107.6
85°	71.7	113.1	88.3	69.0	51.0	69.0	81.4	85.5	73.1	70.4
87.5°	33.1	49.7	33.1	23.5	17.9	24.8	23.5	19.3	11.0	11.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)