

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: P481394

Luminaire Tested: **IFLD-S-SA3B-827-U-RW**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481394
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3B-827-U-RW
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ RW distribution lens
Light Source: (48) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

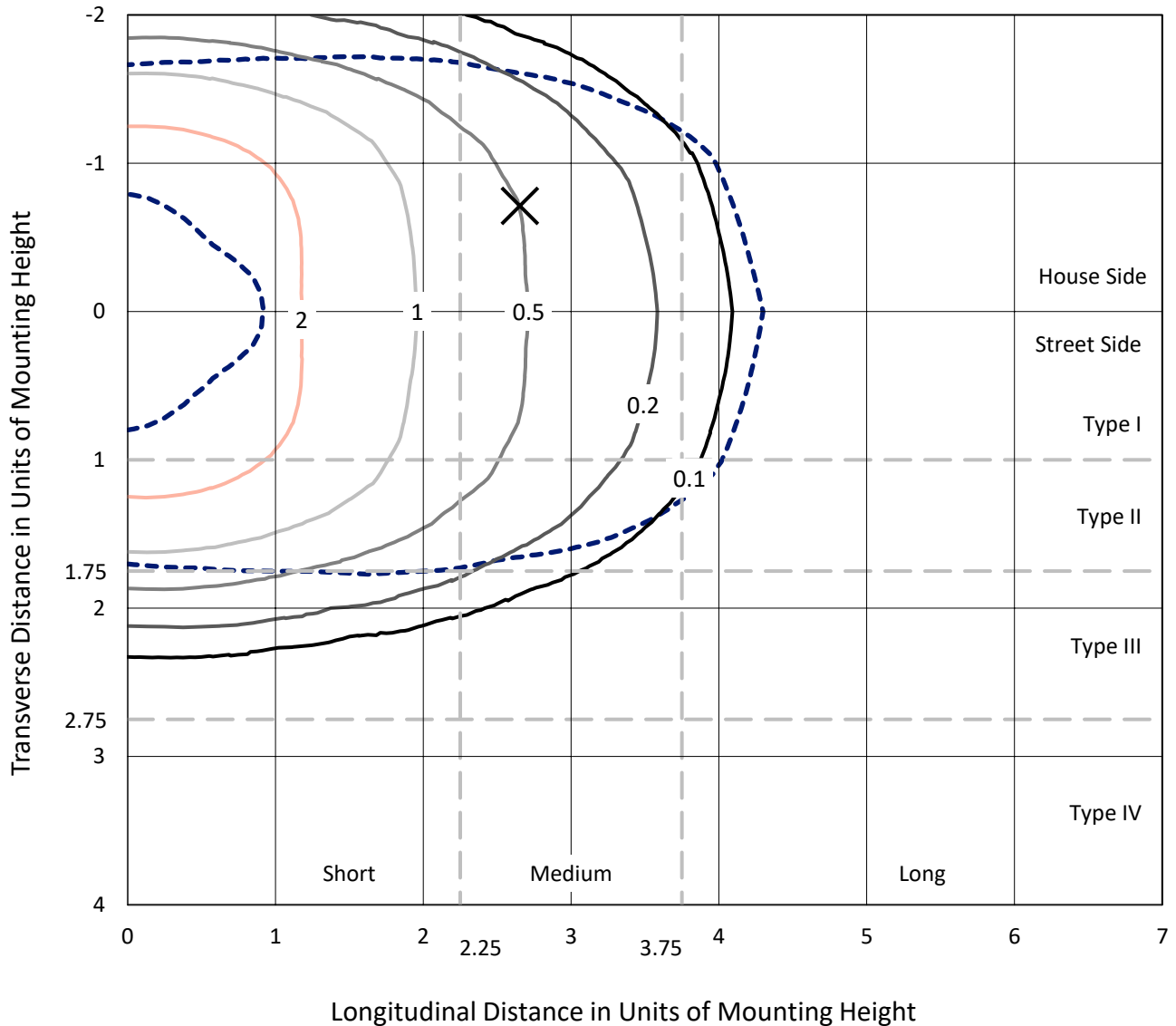
Lumens per Lamp: N/A
Luminaire Lumens: 12884 lumens
Efficiency: N/A
Efficacy: 105.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 122.4
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

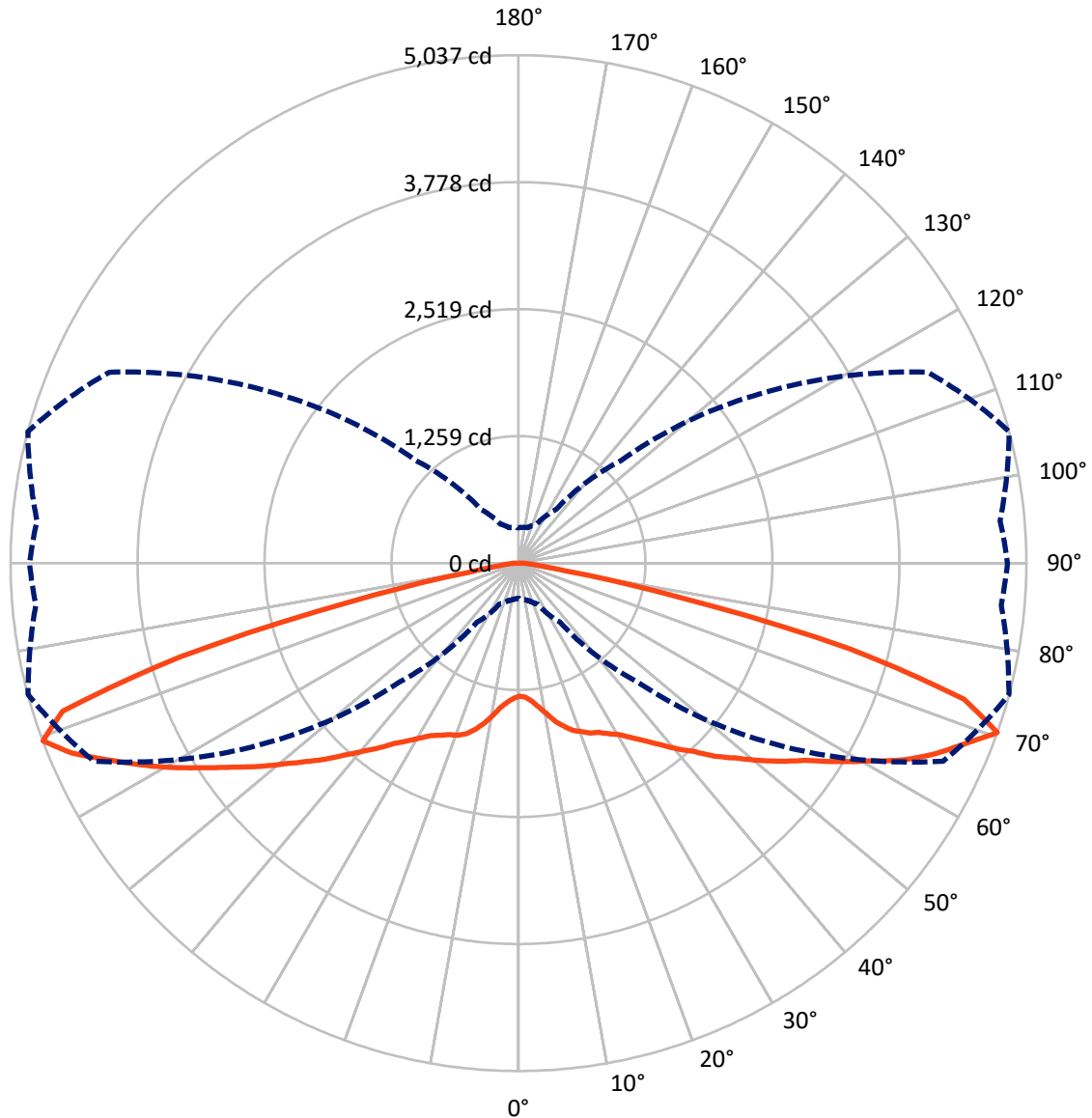
× Max cd
 - - - 1/2 Max cd



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	6396.2	0.0	6396.2
	% Fixture	49.6	0.0	49.6
Street Side	Lumens	6487.8	0.0	6487.8
	% Fixture	50.4	0.0	50.4
Total	Lumens	12884.0	0.0	12884.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.3	1.0
10°-20°	447.1	3.5
20°-30°	865.8	6.7
30°-40°	1464.4	11.4
40°-50°	2336.1	18.1
50°-60°	3197.6	24.8
60°-70°	3014.0	23.4
70°-80°	1327.7	10.3
80°-90°	99.9	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°	12884.0	100.0
0°-180°	12884.0	100.0

Coefficient of Utilization



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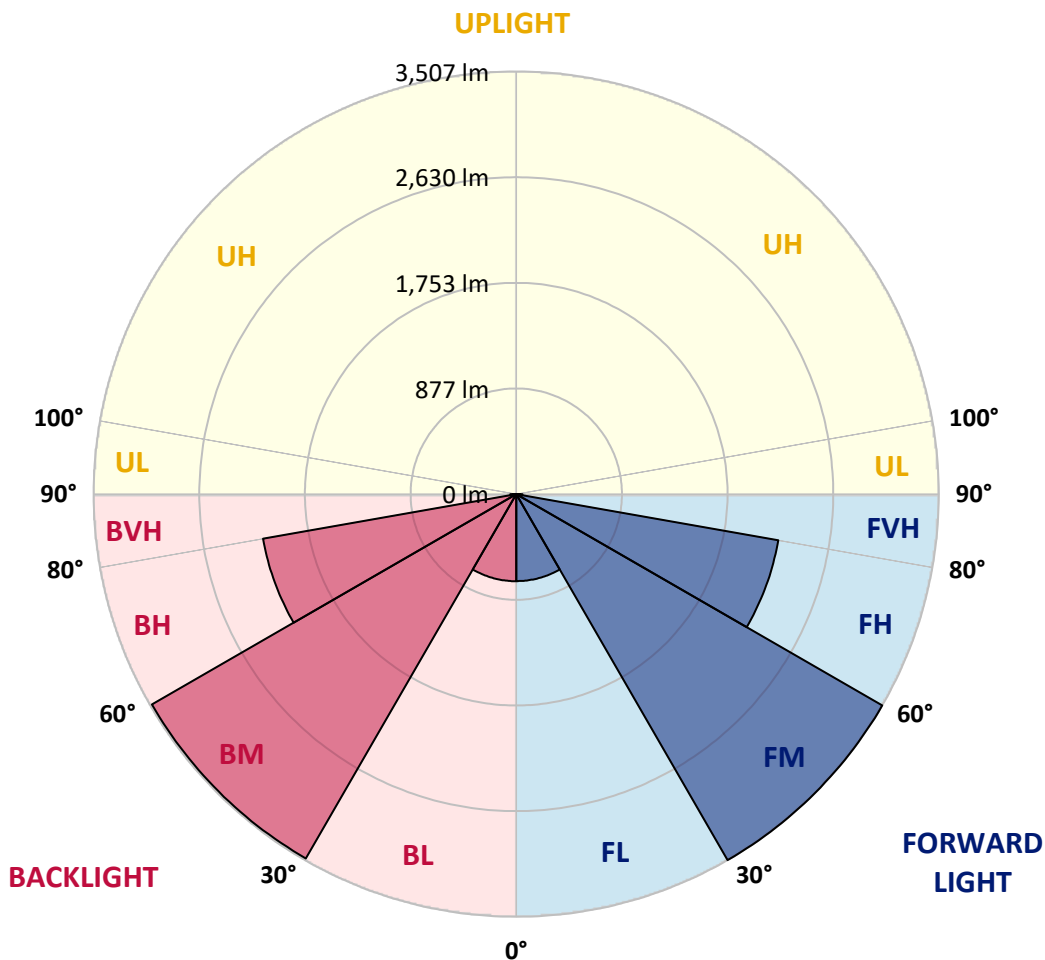
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	721.7	5.6			
FM (30°-60°)	3506.9	27.2			
FH (60°-80°)	2208.2	17.1			G2/5000
FVH (80°-90°)	51.0	0.4			G1/100
BL (0°-30°)	722.5	5.6	B2/1000		
BM (30°-60°)	3491.2	27.1	B3/5000		
BH (60°-80°)	2133.6	16.6	B3/2500		G3/2500
BVH (80°-90°)	48.9	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°	1319.3	1319.3	1319.3	1319.3	1319.3	1319.3	1319.3	1319.3	1319.3	1319.3	1319.3
2.5°	1311.0	1311.0	1309.6	1316.5	1323.5	1326.2	1331.8	1333.2	1341.5	1334.6	1348.5
5°	1306.8	1305.4	1316.5	1333.2	1333.2	1351.2	1362.4	1377.6	1381.8	1390.1	1392.9
7.5°	1336.0	1333.2	1327.6	1345.7	1361.0	1388.7	1404.0	1430.4	1440.1	1451.2	1463.7
10°	1354.0	1354.0	1348.5	1380.4	1394.3	1431.8	1465.1	1491.5	1529.0	1541.5	1542.9
12.5°	1356.8	1361.0	1377.6	1419.3	1458.2	1506.8	1531.8	1581.8	1619.3	1642.9	1651.2
15°	1398.5	1390.1	1408.2	1465.1	1522.1	1565.1	1609.6	1645.7	1699.8	1730.4	1749.8
17.5°	1436.0	1427.6	1461.0	1529.0	1587.3	1654.0	1692.9	1731.8	1770.6	1798.4	1799.8
20°	1495.7	1502.6	1531.8	1605.4	1681.8	1740.1	1784.5	1791.5	1810.9	1851.2	1844.2
22.5°	1569.3	1563.7	1624.8	1705.4	1788.7	1837.3	1862.3	1844.2	1834.5	1877.6	1887.3
25°	1642.9	1659.5	1715.1	1790.1	1890.1	1955.3	1962.3	1912.3	1876.2	1891.5	1887.3
27.5°	1755.4	1758.1	1816.5	1905.4	2006.7	2063.7	2059.5	1988.7	1919.2	1920.6	1923.4
30°	1899.8	1885.9	1949.8	2030.3	2130.3	2181.7	2188.7	2087.3	1994.2	1966.5	1973.4
32.5°	2038.7	2055.3	2110.9	2202.5	2276.1	2305.3	2290.0	2199.8	2078.9	2041.4	2045.6
35°	2216.4	2213.7	2290.0	2367.8	2423.4	2428.9	2416.4	2284.5	2170.6	2122.0	2102.6
37.5°	2406.7	2431.7	2481.7	2545.6	2603.9	2606.7	2538.6	2433.1	2292.8	2212.3	2235.9
40°	2619.2	2646.9	2683.0	2776.1	2819.1	2774.7	2705.3	2562.2	2416.4	2345.6	2356.7
42.5°	2806.6	2819.1	2892.7	3002.5	3023.3	3003.8	2901.1	2727.5	2558.1	2480.3	2485.8
45°	2978.9	2995.5	3091.3	3189.9	3238.5	3205.2	3085.8	2920.5	2723.3	2656.7	2630.3
47.5°	3137.2	3170.5	3263.5	3364.9	3439.9	3442.7	3295.5	3095.5	2887.2	2799.7	2798.3
50°	3244.1	3292.7	3384.4	3499.6	3609.3	3652.4	3505.2	3289.9	3066.3	2973.3	2963.6
52.5°	3302.4	3352.4	3444.1	3623.2	3745.4	3812.1	3742.7	3471.9	3276.0	3178.8	3163.6
55°	3231.6	3264.9	3414.9	3666.3	3855.1	3964.9	3919.0	3723.2	3484.4	3405.2	3419.1
57.5°	2930.2	2999.7	3184.4	3498.2	3852.4	4121.8	4117.6	3960.7	3724.6	3649.6	3652.4
60°	2412.2	2470.6	2698.3	3137.2	3696.8	4185.7	4332.9	4191.2	3994.0	3906.5	3903.8
62.5°	1702.6	1776.2	2040.1	2519.2	3238.5	4096.8	4580.1	4481.5	4257.9	4194.0	4217.6
65°	952.7	997.1	1241.5	1674.8	2467.8	3607.9	4624.5	4782.8	4525.9	4428.7	4432.9
67.5°	509.7	526.3	640.2	879.1	1509.6	2781.6	4175.9	4956.4	4816.2	4648.1	4621.7
70°	350.0	355.5	384.7	450.0	713.8	1663.7	3149.7	4646.7	5034.2	4805.0	4849.5
72.5°	295.8	293.0	300.0	306.9	373.6	744.4	1848.4	3576.0	4752.3	4666.2	4649.5
75°	256.9	255.5	258.3	251.4	259.7	327.7	818.0	2228.9	3478.8	3882.9	3945.4
77.5°	212.5	213.9	215.3	208.3	205.5	216.6	329.1	979.1	1712.3	1890.1	2038.7
80°	161.1	163.9	175.0	168.0	156.9	158.3	194.4	327.7	491.6	445.8	459.7
82.5°	109.7	111.1	134.7	126.4	118.0	106.9	125.0	169.4	191.6	145.8	127.8
85°	77.8	76.4	87.5	80.5	75.0	54.2	75.0	95.8	115.3	72.2	65.3
87.5°	18.1	18.1	36.1	29.2	27.8	22.2	29.2	37.5	50.0	31.9	29.2
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°	1319.3	1319.3	1319.3	1319.3	1319.3	1319.3	1319.3	1319.3	1319.3	1319.3
2.5°	1344.3	1331.8	1331.8	1329.0	1317.9	1315.1	1305.4	1308.2	1301.3	1294.3
5°	1391.5	1374.9	1374.9	1351.2	1329.0	1326.2	1315.1	1315.1	1304.0	1306.8
7.5°	1456.8	1441.5	1416.5	1395.7	1365.1	1352.6	1331.8	1329.0	1326.2	1320.7
10°	1534.6	1515.1	1490.1	1447.1	1422.1	1398.5	1377.6	1348.5	1341.5	1342.9
12.5°	1640.1	1609.6	1555.4	1517.9	1486.0	1455.4	1424.8	1381.8	1372.1	1376.2
15°	1715.1	1676.2	1622.0	1608.2	1565.1	1527.6	1477.6	1429.0	1412.3	1408.2
17.5°	1776.2	1744.3	1712.3	1691.5	1656.8	1610.9	1541.5	1486.0	1448.5	1444.3
20°	1826.2	1784.5	1777.6	1790.1	1747.0	1716.5	1631.8	1563.7	1513.7	1492.9
22.5°	1856.7	1830.4	1849.8	1860.9	1858.1	1806.8	1719.3	1640.1	1577.6	1558.2
25°	1890.1	1859.5	1929.0	1966.5	1976.2	1891.5	1823.4	1719.3	1658.2	1645.7
27.5°	1906.7	1917.9	1998.4	2077.6	2070.6	2005.3	1913.7	1820.6	1772.0	1749.8
30°	1955.3	1973.4	2095.6	2184.5	2185.9	2122.0	2052.6	1947.0	1892.9	1883.1
32.5°	2042.8	2065.1	2195.6	2290.0	2306.7	2258.1	2188.7	2123.4	2067.8	2045.6
35°	2109.5	2166.4	2313.6	2399.7	2444.2	2415.0	2376.1	2308.1	2249.8	2230.3
37.5°	2205.3	2284.5	2426.1	2542.8	2592.8	2590.0	2560.8	2487.2	2438.6	2422.0
40°	2342.8	2422.0	2551.1	2705.3	2798.3	2794.1	2777.5	2720.5	2648.3	2640.0
42.5°	2488.6	2553.9	2721.9	2898.3	3031.6	3017.7	2973.3	2906.6	2856.6	2845.5
45°	2630.3	2731.7	2887.2	3113.6	3213.5	3248.3	3195.5	3081.6	3024.7	3017.7
47.5°	2808.0	2888.6	3083.0	3285.8	3434.4	3439.9	3349.6	3244.1	3139.9	3162.2
50°	2966.4	3073.3	3270.5	3492.7	3670.4	3606.6	3491.3	3359.4	3284.4	3255.2
52.5°	3135.8	3266.3	3495.5	3721.8	3820.4	3756.5	3569.1	3421.9	3308.0	3295.5
55°	3383.0	3451.0	3751.0	3924.6	3956.5	3821.8	3545.5	3337.1	3189.9	3153.8
57.5°	3634.3	3713.5	3976.0	4126.0	4092.6	3785.7	3392.7	3070.5	2877.5	2826.1
60°	3888.5	3985.7	4206.5	4344.0	4171.8	3537.1	2960.8	2545.6	2320.6	2274.8
62.5°	4171.8	4298.2	4495.4	4544.0	3937.1	3045.5	2349.8	1837.3	1609.6	1533.2
65°	4423.1	4552.3	4795.3	4502.3	3438.5	2272.0	1519.3	1049.9	881.9	820.7
67.5°	4630.1	4775.9	4895.3	3984.3	2517.8	1330.4	791.6	552.7	490.2	468.0
70°	4793.9	5037.0	4478.7	2928.9	1438.7	648.5	427.7	363.9	355.5	350.0
72.5°	4650.9	4619.0	3344.1	1690.1	630.5	356.9	309.7	300.0	298.6	300.0
75°	3803.8	3392.7	1999.8	734.6	316.6	258.3	256.9	252.8	259.7	259.7
77.5°	1845.6	1613.7	836.0	315.2	208.3	202.8	209.7	209.7	209.7	209.7
80°	427.7	473.6	298.6	191.6	151.4	151.4	166.6	168.0	161.1	158.3
82.5°	145.8	194.4	163.9	120.8	100.0	112.5	126.4	129.2	106.9	108.3
85°	72.2	113.9	88.9	69.4	51.4	69.4	81.9	86.1	73.6	70.8
87.5°	33.3	50.0	33.3	23.6	18.1	25.0	23.6	19.4	11.1	11.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)