

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: P476593

Luminaire Tested: **IFLD-S-SA2C-740-U-T2**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P476593
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2C-740-U-T2
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens
Light Source: (32) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

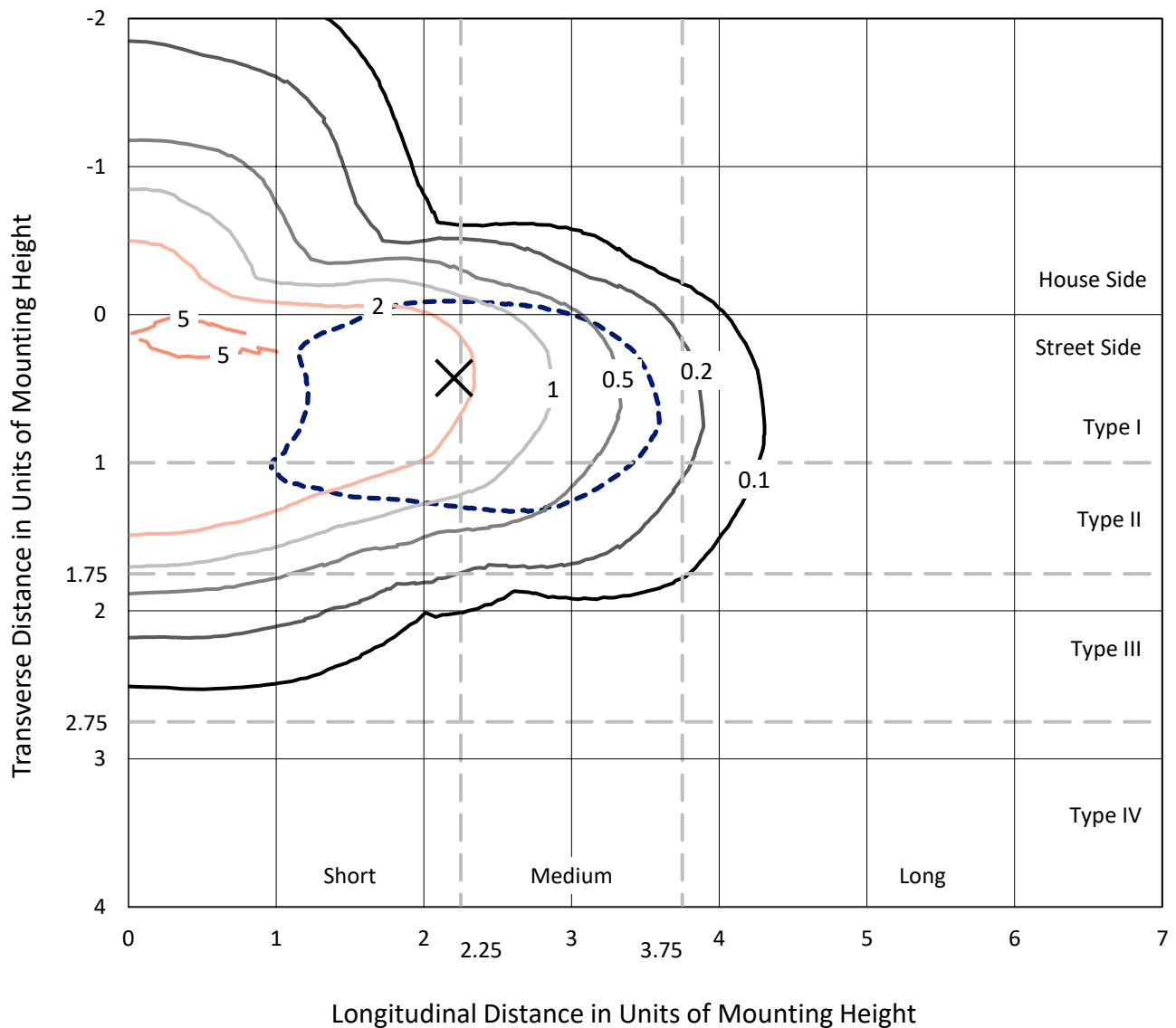
Lumens per Lamp: N/A
Luminaire Lumens: 14196.2 lumens
Efficiency: N/A
Efficacy: 131.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 108.2
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

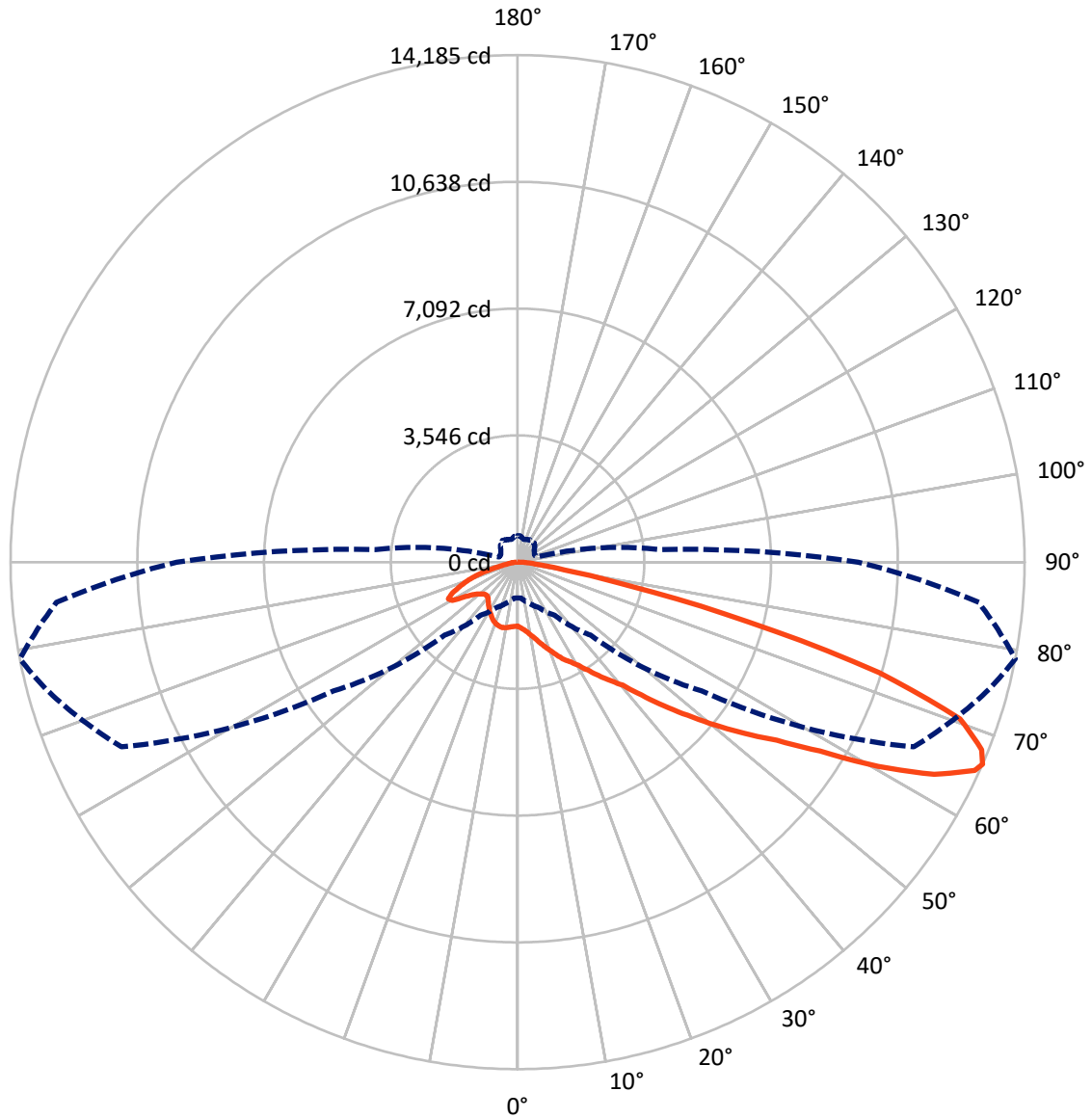
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2866.7	0.0	2866.7
	% Fixture	20.2	0.0	20.2
Street Side	Lumens	11329.5	0.0	11329.5
	% Fixture	79.8	0.0	79.8
Total	Lumens	14196.2	0.0	14196.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	176.3	1.2
10°-20°	544.3	3.8
20°-30°	934.3	6.6
30°-40°	1443.3	10.2
40°-50°	2311.8	16.3
50°-60°	3451.7	24.3
60°-70°	3546.6	25.0
70°-80°	1572.2	11.1
80°-90°	215.7	1.5
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°	14196.2	100.0
0°-180°	14196.2	100.0

Coefficient of Utilization



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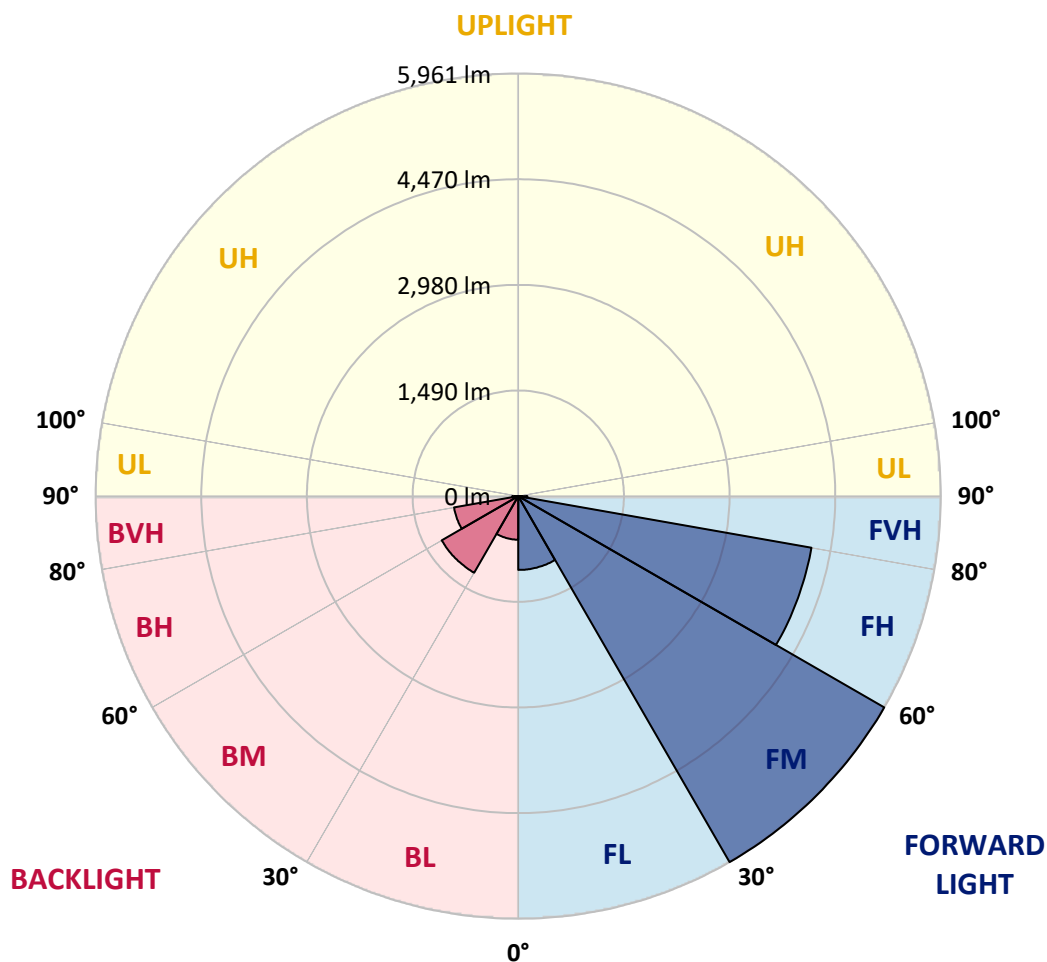
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1040.7	7.3			
FM (30°-60°)	5960.5	42.0			
FH (60°-80°)	4198.9	29.6			G2/5000
FVH (80°-90°)	129.4	0.9			G2/225
BL (0°-30°)	614.2	4.3	B2/1000		
BM (30°-60°)	1246.3	8.8	B2/2500		
BH (60°-80°)	919.9	6.5	B2/1000		G2/1000
BVH (80°-90°)	86.3	0.6			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	1792.6	1792.6	1792.6	1792.6	1792.6	1792.6	1792.6	1792.6	1792.6	1792.6	1792.6
2.5°	1906.6	1908.1	1908.1	1901.9	1903.5	1908.1	1891.0	1853.5	1853.5	1847.2	1836.3
5°	2023.7	2015.9	2005.0	2006.5	2000.3	2000.3	1981.5	1945.6	1914.4	1901.9	1869.1
7.5°	2039.3	2047.1	2045.6	2064.3	2073.7	2073.7	2083.0	2053.4	2006.5	1976.8	1944.1
10°	2070.5	2050.2	2048.7	2092.4	2106.5	2139.2	2176.7	2161.1	2122.1	2079.9	2036.2
12.5°	2089.3	2101.8	2101.8	2123.6	2156.4	2204.8	2270.4	2300.1	2239.2	2195.5	2128.3
15°	2117.4	2100.2	2150.2	2168.9	2231.4	2265.7	2359.4	2435.9	2395.3	2342.2	2236.1
17.5°	2129.9	2118.9	2147.1	2181.4	2287.6	2339.1	2453.1	2559.3	2524.9	2490.6	2381.3
20°	2193.9	2192.3	2204.8	2232.9	2309.4	2410.9	2553.0	2699.8	2712.3	2649.9	2501.5
22.5°	2350.0	2329.7	2329.7	2318.8	2351.6	2456.2	2648.3	2851.3	2907.5	2834.1	2637.4
25°	2493.7	2521.8	2504.6	2454.7	2442.2	2496.8	2717.0	3012.1	3087.1	3018.4	2821.6
27.5°	2678.0	2687.3	2717.0	2649.9	2564.0	2581.1	2791.9	3102.7	3257.3	3165.1	2926.2
30°	2943.4	2926.2	2920.0	2845.0	2732.6	2709.2	2877.8	3235.4	3480.6	3351.0	3049.6
32.5°	3123.0	3165.1	3163.6	3060.5	2924.7	2873.1	2984.0	3360.3	3719.5	3599.2	3277.6
35°	3479.0	3522.7	3488.4	3336.9	3177.6	3074.6	3137.0	3522.7	3992.7	3899.0	3471.2
37.5°	3933.4	4036.5	3963.1	3683.6	3458.7	3346.3	3349.4	3699.2	4272.2	4195.7	3678.9
40°	4247.3	4386.2	4284.7	4022.4	3783.5	3677.3	3635.2	3908.4	4606.4	4525.2	4003.7
42.5°	4636.1	4751.6	4698.5	4439.3	4159.8	4069.2	3984.9	4258.2	5117.0	5079.5	4420.6
45°	5060.8	5115.4	5098.3	4934.3	4623.6	4592.3	4406.5	4718.8	5718.2	5733.8	4942.1
47.5°	5455.9	5485.5	5518.3	5399.6	5206.0	5232.6	4892.2	5212.3	6302.2	6405.2	5523.0
50°	5557.3	5658.8	5735.4	5815.0	5857.2	6036.7	5427.7	5818.1	6973.6	7173.5	6169.5
52.5°	5454.3	5446.5	5679.1	5929.0	6350.6	6726.9	6157.0	6570.8	7567.0	7962.0	6761.3
55°	4985.8	4970.2	5345.0	5676.0	6498.9	7111.0	7198.5	7573.2	8283.7	8797.4	7562.3
57.5°	4166.1	4069.2	4478.4	5021.8	6177.3	7153.2	8244.7	9061.3	9386.1	9971.7	8785.0
60°	2799.8	2759.2	3151.1	3799.1	5015.5	6555.1	8870.8	10924.2	10939.8	11598.8	10682.2
62.5°	1723.9	1731.7	1983.1	2468.7	3511.8	5196.6	8600.7	12412.3	12415.4	13075.9	12243.7
65°	1127.4	1132.1	1335.1	1603.7	2193.9	3524.3	7112.6	12529.4	13441.3	14055.0	12958.8
66°	1004.0	1005.6	1180.5	1399.1	1817.6	2884.1	6281.9	12224.9	13672.4	14184.6	12949.4
67.5°	846.3	866.6	1007.2	1175.8	1417.8	2072.1	4984.3	11344.2	13553.7	14003.5	12655.9
70°	662.1	673.0	783.9	955.6	1063.4	1199.2	2962.1	9247.2	12406.0	13135.3	11587.8
72.5°	530.9	540.3	624.6	776.1	863.5	790.1	1613.0	6709.7	9799.9	10577.5	9114.4
75°	448.1	449.7	490.3	610.5	710.5	593.4	858.8	4306.6	6288.1	6650.4	5583.9
77.5°	362.3	368.5	396.6	465.3	571.5	466.9	512.2	2412.5	3157.3	3183.9	2581.1
80°	295.1	298.2	315.4	338.8	435.7	345.1	346.7	1177.4	1353.8	1322.6	1049.3
82.5°	232.7	235.8	256.1	251.4	320.1	246.7	215.5	566.8	623.0	610.5	482.5
85°	131.2	131.2	201.4	201.4	203.0	156.1	131.2	267.0	329.5	307.6	226.4
87.5°	42.2	43.7	60.9	64.0	101.5	70.3	64.0	99.9	156.1	137.4	81.2
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1792.6	1792.6	1792.6	1792.6	1792.6	1792.6	1792.6	1792.6	1792.6	1792.6	1792.6
2.5°	1830.1	1805.1	1794.2	1758.2	1748.9	1725.4	1714.5	1700.5	1695.8	1675.5	1694.2
5°	1844.1	1836.3	1792.6	1747.3	1713.0	1697.3	1673.9	1642.7	1639.6	1611.5	1608.3
7.5°	1903.5	1876.9	1800.4	1752.0	1683.3	1644.3	1592.7	1577.1	1556.8	1547.4	1567.7
10°	1995.6	1928.4	1814.5	1692.7	1608.3	1561.5	1524.0	1513.1	1514.6	1508.4	1499.0
12.5°	2061.2	1997.1	1791.0	1642.7	1533.4	1488.1	1485.0	1495.9	1513.1	1505.3	1516.2
15°	2154.9	2034.6	1773.9	1559.9	1472.5	1460.0	1458.4	1491.2	1489.7	1489.7	1488.1
17.5°	2242.3	2072.1	1711.4	1488.1	1408.5	1417.8	1428.8	1427.2	1442.8	1449.1	1460.0
20°	2353.2	2115.8	1624.0	1416.3	1360.1	1356.9	1355.4	1356.9	1372.6	1381.9	1374.1
22.5°	2450.0	2125.2	1550.6	1347.6	1302.3	1289.8	1269.5	1289.8	1282.0	1285.1	1294.5
25°	2534.3	2126.8	1445.9	1296.0	1244.5	1216.4	1200.8	1199.2	1185.2	1183.6	1183.6
27.5°	2604.6	2073.7	1353.8	1224.2	1175.8	1149.3	1147.7	1130.5	1094.6	1071.2	1074.3
30°	2659.2	2033.1	1289.8	1161.7	1114.9	1110.2	1096.2	1057.1	1010.3	980.6	980.6
32.5°	2756.0	1951.9	1202.3	1097.7	1074.3	1068.1	1035.3	1000.9	957.2	929.1	924.4
35°	2827.9	1876.9	1144.6	1043.1	1032.1	1019.7	991.5	954.1	941.6	935.3	940.0
37.5°	2909.1	1792.6	1074.3	996.2	1007.2	983.7	950.9	933.8	977.5	966.6	971.2
40°	3038.7	1733.3	1005.6	968.1	979.1	952.5	910.3	904.1	958.8	919.7	910.3
42.5°	3276.0	1731.7	963.4	926.0	933.8	913.5	876.0	872.9	894.7	847.9	833.8
45°	3571.1	1786.3	932.2	894.7	888.5	885.4	872.9	858.8	840.1	779.2	763.6
47.5°	3924.0	1875.4	926.0	847.9	855.7	882.2	866.6	830.7	782.3	743.3	735.5
50°	4351.9	2059.6	910.3	813.5	827.6	869.8	857.3	807.3	763.6	738.6	733.9
52.5°	4825.0	2292.3	890.1	760.4	791.7	858.8	865.1	818.2	754.2	732.3	729.2
55°	5382.5	2635.8	866.6	702.7	749.5	847.9	865.1	787.0	741.7	741.7	738.6
57.5°	6483.3	3254.1	818.2	649.6	712.0	827.6	840.1	788.6	743.3	743.3	737.0
60°	8097.9	4219.1	726.1	609.0	676.1	799.5	821.3	765.1	726.1	735.5	733.9
62.5°	9361.1	4512.7	648.0	569.9	640.2	748.0	796.4	740.1	705.8	740.1	743.3
65°	9631.3	4216.0	568.4	527.8	590.2	698.0	760.4	704.2	676.1	743.3	746.4
66°	9534.5	3984.9	540.3	515.3	568.4	673.0	738.6	691.7	660.5	740.1	741.7
67.5°	9103.5	3638.3	509.0	488.7	538.7	637.1	713.6	674.6	635.5	730.8	716.7
70°	8166.6	3085.5	456.0	441.9	496.6	577.8	655.8	630.8	596.5	673.0	648.0
72.5°	6289.7	2465.6	399.7	401.3	448.1	516.9	598.1	580.9	551.2	590.2	574.6
75°	3830.3	1575.5	348.2	351.3	390.4	459.1	543.4	530.9	495.0	516.9	509.0
77.5°	1697.3	780.7	293.6	299.8	331.0	404.4	473.1	452.8	415.4	420.0	416.9
80°	658.9	370.1	238.9	246.7	267.0	323.2	391.9	373.2	340.4	334.2	331.0
82.5°	317.0	206.1	184.3	187.4	195.2	257.6	337.3	313.9	270.1	242.0	242.0
85°	159.3	128.0	129.6	118.7	129.6	174.9	228.0	190.5	157.7	140.5	143.7
87.5°	64.0	64.0	64.0	54.7	57.8	82.8	106.2	71.8	65.6	39.0	39.0
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)