

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: P476515

Luminaire Tested: **IFLD-S-SA2C-730-U-T2**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P476515
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2C-730-U-T2
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens
Light Source: (32) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

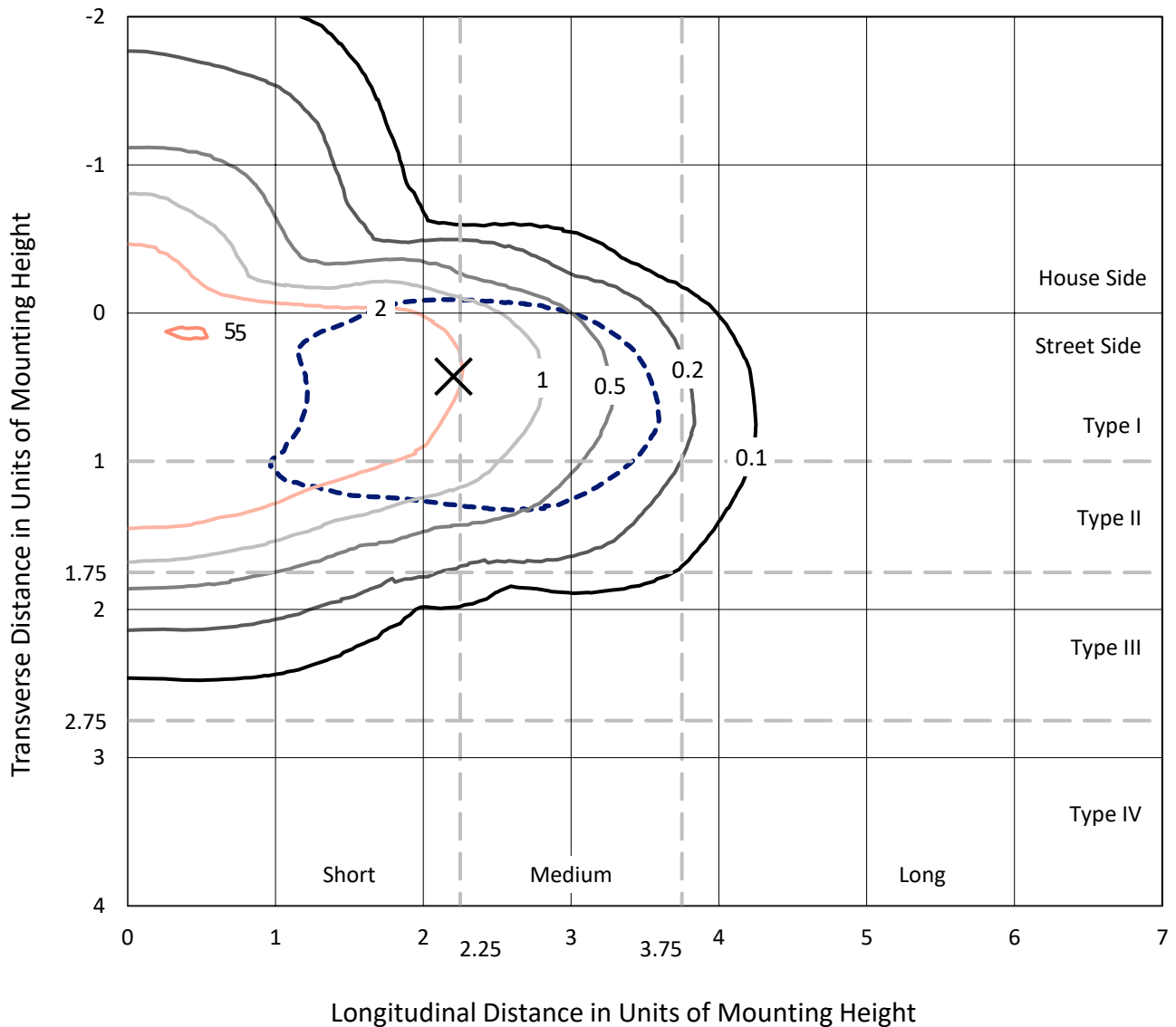
Lumens per Lamp: N/A
Luminaire Lumens: 12927.1 lumens
Efficiency: N/A
Efficacy: 119.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

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

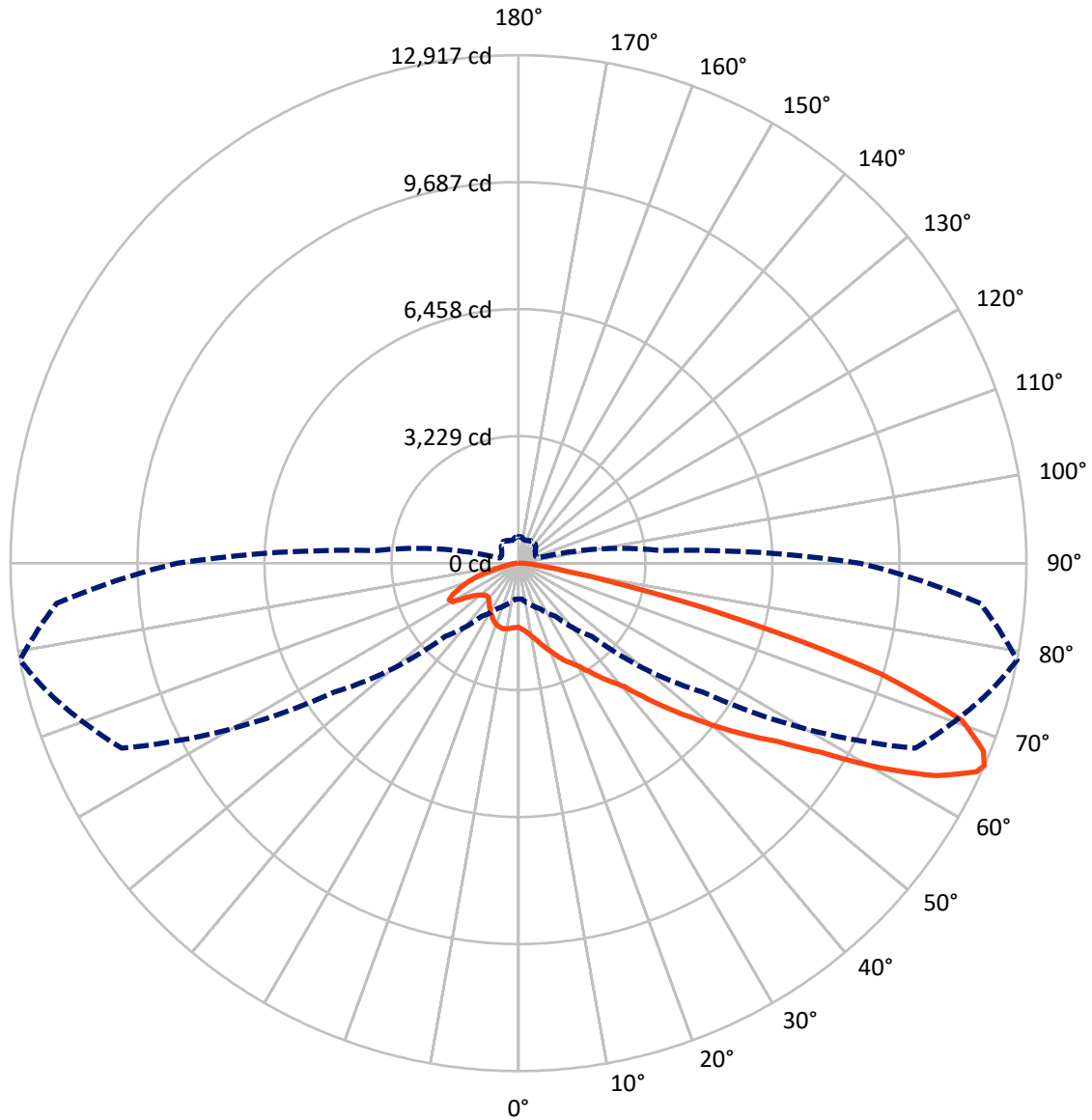
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.2 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	2610.4	0.0	2610.4
	% Fixture	20.2	0.0	20.2
Street Side	Lumens	10316.7	0.0	10316.7
	% Fixture	79.8	0.0	79.8
Total	Lumens	12927.1	0.0	12927.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	160.5	1.2
10°-20°	495.6	3.8
20°-30°	850.8	6.6
30°-40°	1314.3	10.2
40°-50°	2105.1	16.3
50°-60°	3143.1	24.3
60°-70°	3229.6	25.0
70°-80°	1431.6	11.1
80°-90°	196.4	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°	12927.1	100.0
0°-180°	12927.1	100.0



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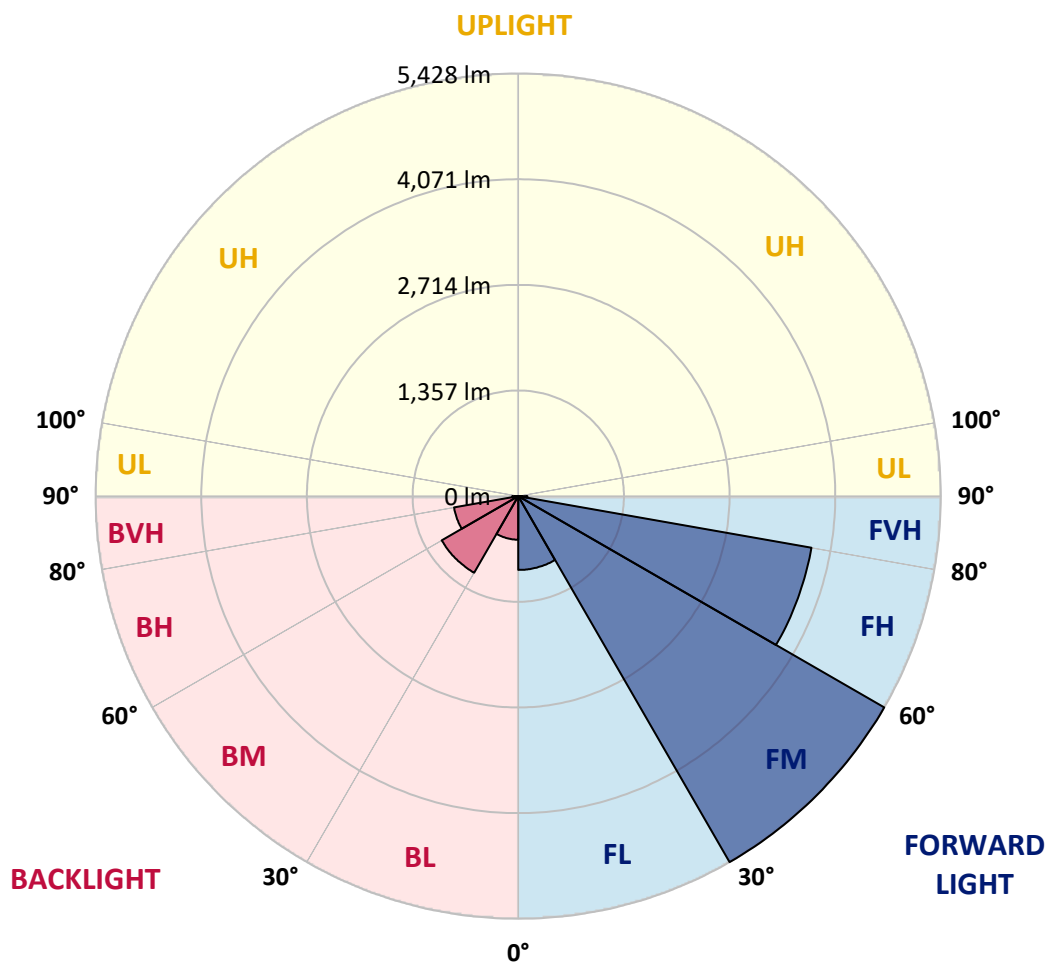
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	947.6	7.3			
FM (30°-60°)	5427.7	42.0			
FH (60°-80°)	3823.6	29.6			G2/5000
FVH (80°-90°)	117.8	0.9			G2/225
BL (0°-30°)	559.3	4.3	B2/1000		
BM (30°-60°)	1134.9	8.8	B2/2500		
BH (60°-80°)	837.6	6.5	B2/1000		G2/1000
BVH (80°-90°)	78.6	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°	1632.3	1632.3	1632.3	1632.3	1632.3	1632.3	1632.3	1632.3	1632.3	1632.3	1632.3
2.5°	1736.1	1737.6	1737.6	1731.9	1733.3	1737.6	1721.9	1687.8	1687.8	1682.1	1672.1
5°	1842.8	1835.7	1825.7	1827.1	1821.4	1821.4	1804.4	1771.7	1743.2	1731.9	1702.0
7.5°	1857.0	1864.1	1862.7	1879.7	1888.3	1888.3	1896.8	1869.8	1827.1	1800.1	1770.3
10°	1885.4	1866.9	1865.5	1905.3	1918.1	1948.0	1982.1	1967.9	1932.4	1894.0	1854.1
12.5°	1902.5	1913.9	1913.9	1933.8	1963.6	2007.7	2067.4	2094.5	2039.0	1999.2	1938.0
15°	1928.1	1912.4	1957.9	1975.0	2031.9	2063.2	2148.5	2218.2	2181.2	2132.8	2036.2
17.5°	1939.5	1929.5	1955.1	1986.4	2083.1	2130.0	2233.8	2330.5	2299.2	2267.9	2168.4
20°	1997.8	1996.3	2007.7	2033.3	2103.0	2195.4	2324.8	2458.5	2469.8	2413.0	2277.9
22.5°	2140.0	2121.5	2121.5	2111.5	2141.4	2236.6	2411.5	2596.4	2647.6	2580.7	2401.6
25°	2270.8	2296.4	2280.7	2235.2	2223.8	2273.6	2474.1	2742.8	2811.1	2748.5	2569.4
27.5°	2438.5	2447.1	2474.1	2413.0	2334.8	2350.4	2542.3	2825.3	2966.1	2882.2	2664.6
30°	2680.3	2664.6	2658.9	2590.7	2488.3	2467.0	2620.6	2946.2	3169.4	3051.4	2777.0
32.5°	2843.8	2882.2	2880.8	2786.9	2663.2	2616.3	2717.2	3059.9	3387.0	3277.5	2984.6
35°	3168.0	3207.8	3176.5	3038.6	2893.6	2799.7	2856.6	3207.8	3635.8	3550.5	3160.9
37.5°	3581.8	3675.6	3608.8	3354.2	3149.5	3047.1	3050.0	3368.5	3890.3	3820.6	3350.0
40°	3867.6	3994.1	3901.7	3662.8	3445.2	3348.6	3310.2	3559.0	4194.6	4120.6	3645.7
42.5°	4221.6	4326.8	4278.5	4042.4	3787.9	3705.5	3628.7	3877.5	4659.5	4625.4	4025.4
45°	4608.4	4658.1	4642.5	4493.2	4210.2	4181.8	4012.6	4297.0	5207.0	5221.2	4500.3
47.5°	4968.1	4995.1	5025.0	4916.9	4740.6	4764.8	4454.8	4746.3	5738.8	5832.6	5029.2
50°	5060.5	5152.9	5222.6	5295.1	5333.5	5497.0	4942.5	5298.0	6350.2	6532.2	5617.9
52.5°	4966.7	4959.6	5171.4	5398.9	5782.8	6125.5	5606.5	5983.3	6890.5	7250.2	6156.8
55°	4540.1	4525.9	4867.1	5168.6	5917.9	6475.3	6554.9	6896.2	7543.1	8011.0	6886.2
57.5°	3793.6	3705.5	4078.0	4572.8	5625.0	6513.7	7507.6	8251.3	8547.0	9080.2	7999.6
60°	2549.5	2512.5	2869.4	3459.5	4567.1	5969.1	8077.8	9947.6	9961.8	10561.8	9727.2
62.5°	1569.8	1576.9	1805.8	2248.0	3197.8	4732.1	7831.8	11302.6	11305.5	11906.9	11149.1
65°	1026.6	1030.9	1215.7	1460.3	1997.8	3209.2	6476.7	11409.3	12239.7	12798.5	11800.3
66°	914.3	915.7	1075.0	1274.0	1655.1	2626.2	5720.3	11132.0	12450.1	12916.5	11791.8
67.5°	770.7	789.2	917.1	1070.7	1291.1	1886.9	4538.7	10330.1	12342.0	12751.5	11524.5
70°	602.9	612.8	713.8	870.2	968.3	1092.0	2697.3	8420.5	11296.9	11961.0	10551.9
72.5°	483.4	492.0	568.8	706.7	786.3	719.5	1468.8	6109.9	8923.8	9631.9	8299.6
75°	408.1	409.5	446.5	556.0	647.0	540.3	782.0	3921.6	5726.0	6055.8	5084.7
77.5°	329.9	335.6	361.2	423.7	520.4	425.1	466.4	2196.8	2875.1	2899.2	2350.4
80°	268.7	271.6	287.2	308.6	396.7	314.2	315.7	1072.1	1232.8	1204.3	955.5
82.5°	211.9	214.7	233.2	228.9	291.5	224.7	196.2	516.1	567.3	556.0	439.4
85°	119.4	119.4	183.4	183.4	184.8	142.2	119.4	243.1	300.0	280.1	206.2
87.5°	38.4	39.8	55.5	58.3	92.4	64.0	58.3	91.0	142.2	125.1	73.9
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°	1632.3	1632.3	1632.3	1632.3	1632.3	1632.3	1632.3	1632.3	1632.3	1632.3	1632.3
2.5°	1666.5	1643.7	1633.8	1601.1	1592.5	1571.2	1561.2	1548.4	1544.2	1525.7	1542.8
5°	1679.3	1672.1	1632.3	1591.1	1559.8	1545.6	1524.3	1495.8	1493.0	1467.4	1464.6
7.5°	1733.3	1709.1	1639.4	1595.4	1532.8	1497.3	1450.3	1436.1	1417.6	1409.1	1427.6
10°	1817.2	1756.0	1652.2	1541.3	1464.6	1421.9	1387.8	1377.8	1379.2	1373.5	1365.0
12.5°	1876.9	1818.6	1630.9	1495.8	1396.3	1355.1	1352.2	1362.2	1377.8	1370.7	1380.7
15°	1962.2	1852.7	1615.3	1420.5	1340.8	1329.5	1328.0	1357.9	1356.5	1356.5	1355.1
17.5°	2041.8	1886.9	1558.4	1355.1	1282.5	1291.1	1301.0	1299.6	1313.8	1319.5	1329.5
20°	2142.8	1926.7	1478.8	1289.7	1238.5	1235.6	1234.2	1235.6	1249.8	1258.4	1251.3
22.5°	2231.0	1935.2	1411.9	1227.1	1185.9	1174.5	1156.0	1174.5	1167.4	1170.2	1178.8
25°	2307.7	1936.6	1316.7	1180.2	1133.2	1107.7	1093.4	1092.0	1079.2	1077.8	1077.8
27.5°	2371.7	1888.3	1232.8	1114.8	1070.7	1046.5	1045.1	1029.5	996.7	975.4	978.3
30°	2421.5	1851.3	1174.5	1057.9	1015.2	1011.0	998.2	962.6	920.0	892.9	892.9
32.5°	2509.6	1777.4	1094.9	999.6	978.3	972.6	942.7	911.4	871.6	846.0	841.8
35°	2575.1	1709.1	1042.2	949.8	939.9	928.5	902.9	868.8	857.4	851.7	856.0
37.5°	2649.0	1632.3	978.3	907.2	917.1	895.8	865.9	850.3	890.1	880.2	884.4
40°	2767.0	1578.3	915.7	881.6	891.5	867.4	829.0	823.3	873.0	837.5	829.0
42.5°	2983.1	1576.9	877.3	843.2	850.3	831.8	797.7	794.8	814.7	772.1	759.3
45°	3251.9	1626.6	848.9	814.7	809.1	806.2	794.8	782.0	765.0	709.5	695.3
47.5°	3573.2	1707.7	843.2	772.1	779.2	803.4	789.2	756.4	712.4	676.8	669.7
50°	3962.8	1875.5	829.0	740.8	753.6	792.0	780.6	735.1	695.3	672.6	668.3
52.5°	4393.7	2087.3	810.5	692.5	720.9	782.0	787.7	745.1	686.8	666.9	664.0
55°	4901.3	2400.2	789.2	639.9	682.5	772.1	787.7	716.6	675.4	675.4	672.6
57.5°	5903.7	2963.2	745.1	591.5	648.4	753.6	765.0	718.1	676.8	676.8	671.1
60°	7373.9	3842.0	661.2	554.5	615.7	728.0	747.9	696.7	661.2	669.7	668.3
62.5°	8524.3	4109.3	590.1	519.0	583.0	681.1	725.2	674.0	642.7	674.0	676.8
65°	8770.2	3839.1	517.6	480.6	537.5	635.6	692.5	641.3	615.7	676.8	679.7
66°	8682.1	3628.7	492.0	469.2	517.6	612.8	672.6	629.9	601.5	674.0	675.4
67.5°	8289.6	3313.0	463.5	445.1	490.6	580.1	649.8	614.3	578.7	665.4	652.6
70°	7436.5	2809.7	415.2	402.4	452.2	526.1	597.2	574.4	543.2	612.8	590.1
72.5°	5727.4	2245.2	364.0	365.4	408.1	470.6	544.6	528.9	501.9	537.5	523.3
75°	3487.9	1434.7	317.1	319.9	355.5	418.0	494.8	483.4	450.7	470.6	463.5
77.5°	1545.6	710.9	267.3	273.0	301.4	368.3	430.8	412.3	378.2	382.5	379.6
80°	600.0	337.0	217.5	224.7	243.1	294.3	356.9	339.8	310.0	304.3	301.4
82.5°	288.6	187.7	167.8	170.6	177.7	234.6	307.1	285.8	246.0	220.4	220.4
85°	145.0	116.6	118.0	108.1	118.0	159.3	207.6	173.5	143.6	128.0	130.8
87.5°	58.3	58.3	58.3	49.8	52.6	75.4	96.7	65.4	59.7	35.5	35.5
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)