

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: P478270

Luminaire Tested: **IFLD-S-SA2C-827-U-T4FT**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478270
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2C-827-U-T4FT
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens
Light Source: (32) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

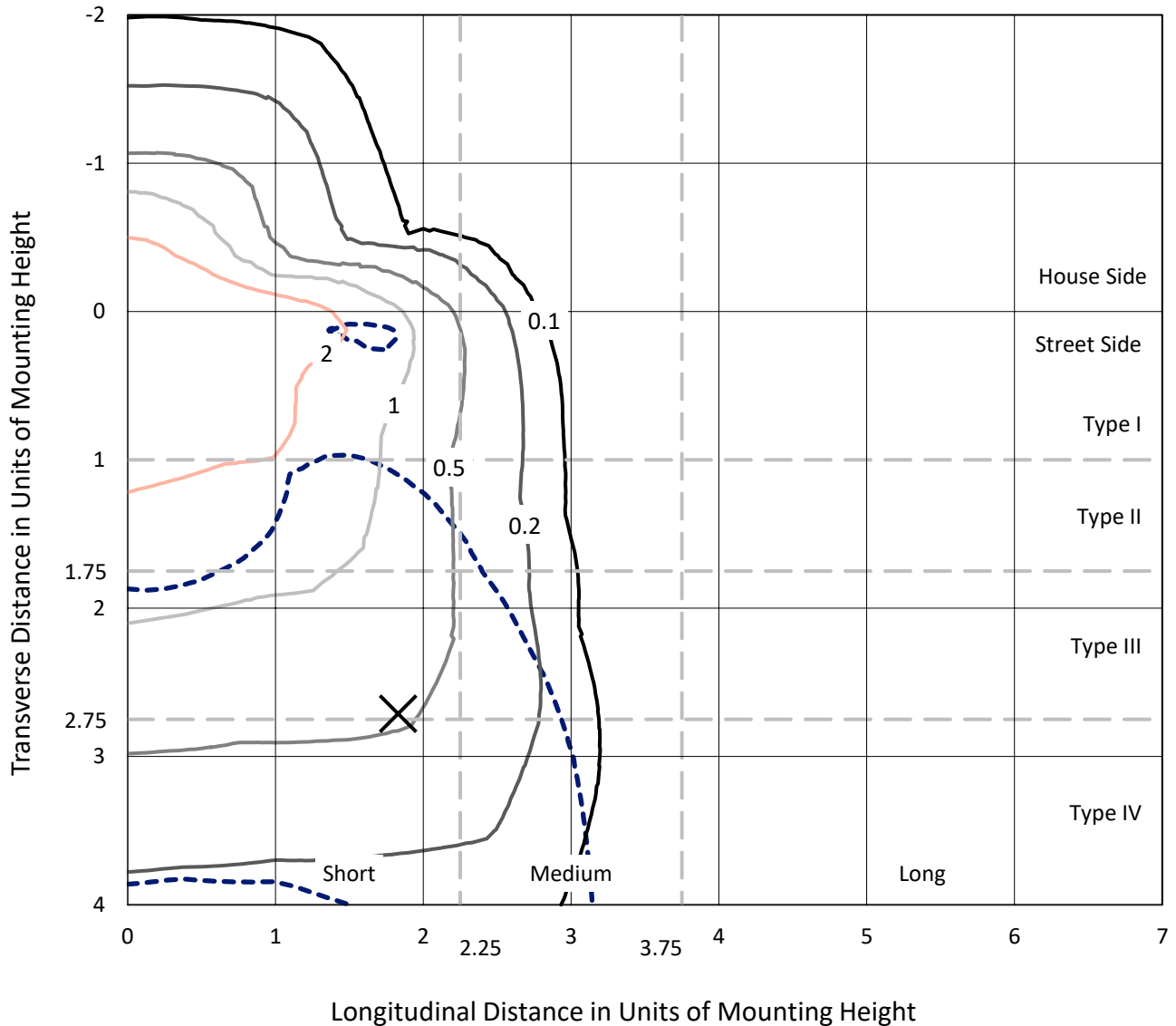
Lumens per Lamp: N/A
Luminaire Lumens: 10704.2 lumens
Efficiency: N/A
Efficacy: 98.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G2

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

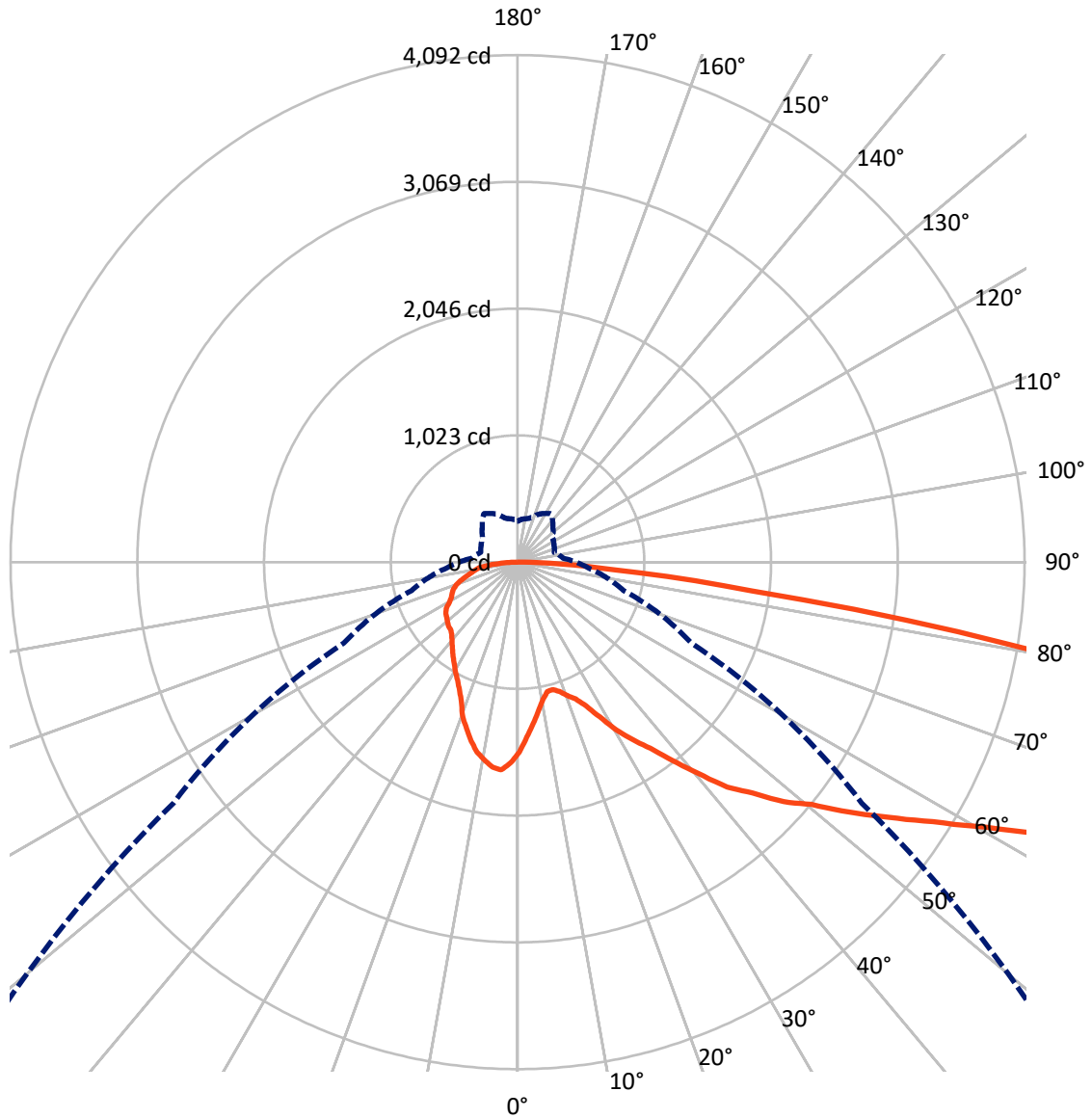
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2312.2	0.0	2312.2
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	8391.9	0.0	8391.9
	% Fixture	78.4	0.0	78.4
Total	Lumens	10704.2	0.0	10704.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	141.6	1.3
10°-20°	396.4	3.7
20°-30°	652.4	6.1
30°-40°	975.6	9.1
40°-50°	1446.3	13.5
50°-60°	2084.3	19.5
60°-70°	2659.9	24.8
70°-80°	2069.8	19.3
80°-90°	277.7	2.6
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°	10704.2	100.0
0°-180°	10704.2	100.0

Coefficient of Utilization



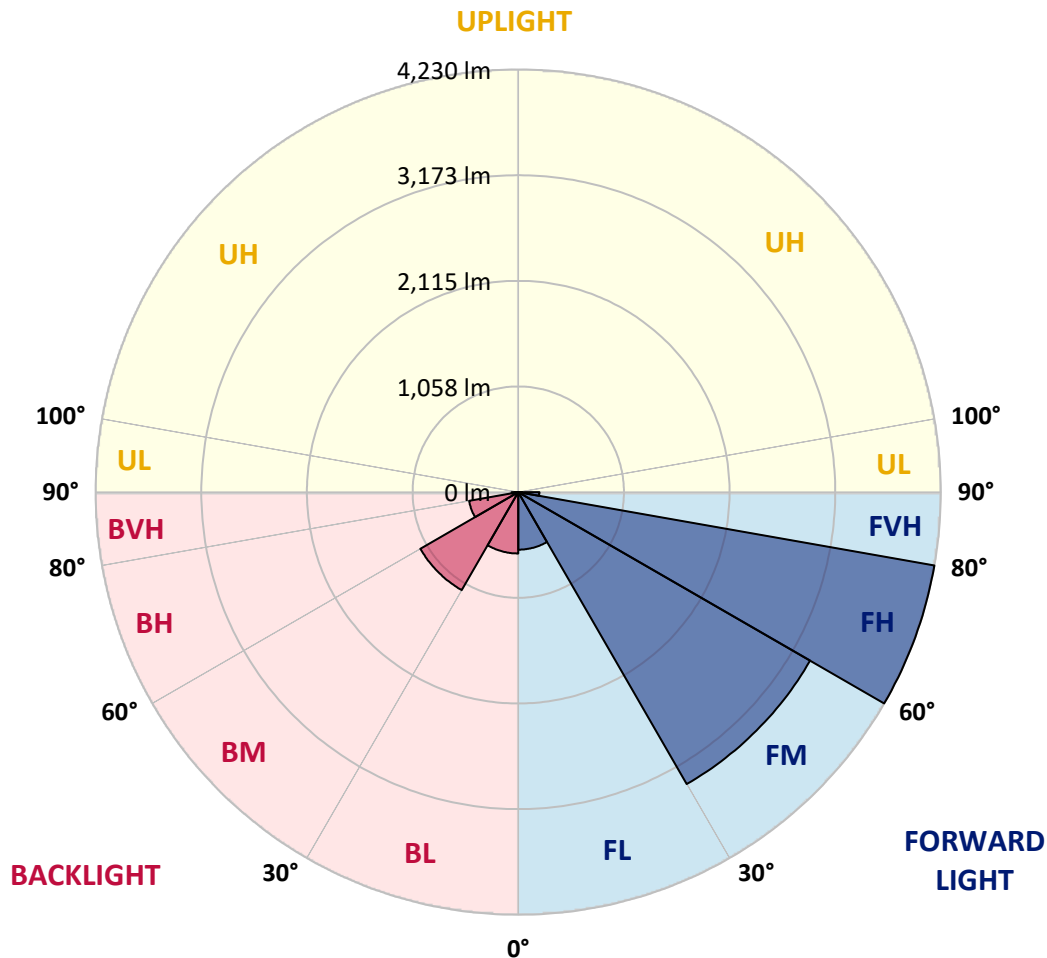
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	576.1	5.4			
FM (30°-60°)	3374.0	31.5			
FH (60°-80°)	4230.5	39.5			G2/5000
FVH (80°-90°)	211.4	2.0			G2/225
BL (0°-30°)	614.3	5.7	B2/1000		
BM (30°-60°)	1132.3	10.6	B2/2500		
BH (60°-80°)	499.3	4.7	B1/500		G1/500
BVH (80°-90°)	66.3	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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	1534.6	1534.6	1534.6	1534.6	1534.6	1534.6	1534.6	1534.6	1534.6	1534.6	1534.6
2.5°	1375.0	1379.6	1394.3	1397.7	1413.5	1404.5	1423.7	1457.7	1476.9	1505.2	1539.1
5°	1266.4	1247.2	1256.2	1291.3	1309.4	1313.9	1334.3	1392.0	1428.2	1470.1	1533.5
7.5°	1138.5	1135.1	1153.2	1175.9	1212.1	1215.5	1260.7	1311.7	1386.4	1479.2	1553.8
10°	1051.4	1066.1	1076.3	1100.0	1124.9	1124.9	1182.6	1270.9	1355.8	1445.2	1558.4
12.5°	1046.8	1037.8	1040.0	1052.5	1070.6	1093.2	1147.6	1226.8	1334.3	1438.4	1577.6
15°	1061.6	1064.9	1044.6	1060.4	1067.2	1075.1	1135.1	1224.5	1320.7	1462.2	1610.4
17.5°	1139.6	1120.4	1088.7	1074.0	1097.8	1097.8	1138.5	1208.7	1323.0	1474.6	1658.0
20°	1200.8	1200.8	1148.7	1132.8	1149.8	1146.4	1174.7	1226.8	1334.3	1499.5	1711.2
22.5°	1303.7	1318.5	1232.4	1199.6	1198.5	1207.5	1232.4	1276.6	1366.0	1534.6	1762.1
25°	1452.0	1455.4	1355.8	1321.8	1285.6	1300.3	1304.9	1349.0	1394.3	1575.4	1819.8
27.5°	1617.2	1615.0	1523.3	1438.4	1414.6	1418.0	1393.1	1422.6	1436.2	1587.8	1902.4
30°	1800.6	1780.2	1711.2	1591.2	1572.0	1550.5	1496.1	1495.0	1523.3	1658.0	2016.7
32.5°	1920.5	1894.5	1847.0	1761.0	1707.8	1710.0	1624.0	1622.9	1598.0	1734.9	2116.3
35°	2038.2	1998.6	1986.2	1897.9	1844.7	1850.4	1781.3	1772.3	1727.0	1851.5	2280.4
37.5°	2179.7	2144.6	2163.8	2097.1	2031.4	2004.3	1972.6	1961.3	1902.4	2015.6	2504.5
40°	2335.9	2324.5	2312.1	2279.3	2239.7	2241.9	2208.0	2196.7	2109.5	2213.6	2719.5
42.5°	2546.4	2503.4	2438.9	2460.4	2480.7	2502.2	2490.9	2461.5	2370.9	2415.1	2959.4
45°	2742.2	2685.6	2566.7	2573.5	2657.3	2674.3	2811.2	2807.8	2625.6	2670.9	3232.2
47.5°	2874.6	2848.5	2777.2	2769.3	2889.3	2888.1	3134.9	3134.9	2893.8	2925.5	3525.3
50°	3071.5	3003.6	2973.0	3012.6	3073.7	3115.6	3465.3	3486.8	3157.5	3191.4	3909.0
52.5°	3302.4	3217.5	3140.5	3242.4	3351.0	3378.2	3792.4	3783.3	3360.1	3500.4	4358.2
55°	3493.6	3450.6	3397.4	3456.3	3633.9	3667.9	4120.6	4036.8	3562.6	3756.2	4574.4
57.5°	3716.6	3742.6	3753.9	3739.2	3950.8	4004.0	4495.2	4255.3	3736.9	3928.2	4701.2
60°	4052.7	4068.5	4083.2	4118.3	4342.4	4417.1	4791.7	4529.1	3846.7	4027.8	4711.3
62.5°	4564.2	4503.1	4535.9	4657.0	4837.0	4921.8	5228.5	4721.5	3930.5	4087.8	4378.6
65°	5149.3	5066.7	5032.8	5188.9	5655.2	5587.3	5774.0	4865.3	3809.4	3863.7	3713.2
67.5°	5742.3	5751.4	5664.2	5977.7	6549.3	6549.3	6281.0	4934.3	3481.2	3131.5	2604.1
70°	6213.1	6241.4	6289.0	6896.7	7802.1	7939.0	6909.1	4651.4	2812.3	2084.6	1423.7
72.5°	6206.3	6121.5	6364.8	7484.1	8940.6	8826.3	7040.4	3678.1	1755.3	1020.8	653.0
73°	6067.1	5995.8	6261.8	7478.4	8987.0	8879.5	6944.2	3390.6	1548.2	885.0	580.6
75°	4954.7	4825.6	5278.3	6773.3	8314.7	8397.3	5899.6	2211.4	848.8	545.5	408.6
77.5°	2258.9	2315.5	2905.1	4543.8	6407.8	6505.1	3878.4	956.3	465.1	382.5	301.0
80°	725.4	761.6	1130.6	2258.9	4016.5	4191.9	1792.6	434.6	331.6	293.1	225.2
82.5°	277.3	276.1	474.2	939.3	1903.6	2015.6	655.3	264.8	246.7	216.2	159.6
85°	97.3	101.9	178.8	371.2	749.2	784.3	227.5	147.1	170.9	144.9	91.7
87.5°	34.0	35.1	63.4	134.7	258.0	272.7	63.4	58.8	84.9	83.7	46.4
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°	1534.6	1534.6	1534.6	1534.6	1534.6	1534.6	1534.6	1534.6	1534.6	1534.6	1534.6
2.5°	1550.5	1560.6	1564.0	1604.8	1604.8	1604.8	1620.6	1620.6	1616.1	1604.8	1631.9
5°	1557.2	1575.4	1610.4	1645.5	1654.6	1662.5	1684.0	1665.9	1672.7	1661.4	1671.5
7.5°	1576.5	1601.4	1667.0	1688.5	1673.8	1690.8	1668.2	1655.7	1643.3	1647.8	1631.9
10°	1609.3	1641.0	1671.5	1711.2	1682.9	1665.9	1619.5	1608.2	1568.6	1555.0	1567.4
12.5°	1650.0	1688.5	1740.6	1725.9	1671.5	1622.9	1573.1	1525.6	1501.8	1467.8	1476.9
15°	1690.8	1734.9	1742.8	1717.9	1650.0	1588.9	1498.4	1431.6	1407.9	1377.3	1393.1
17.5°	1734.9	1776.8	1763.2	1698.7	1607.0	1514.2	1411.3	1345.6	1295.8	1276.6	1276.6
20°	1800.6	1820.9	1799.4	1667.0	1555.0	1432.8	1333.2	1258.5	1208.7	1200.8	1188.3
22.5°	1851.5	1884.3	1788.1	1620.6	1479.2	1326.4	1212.1	1183.8	1169.1	1156.6	1140.8
25°	1917.1	1916.0	1767.7	1577.6	1349.0	1199.6	1130.6	1128.3	1121.5	1117.0	1138.5
27.5°	1979.4	1953.3	1744.0	1471.2	1214.3	1103.4	1066.1	1091.0	1101.2	1094.4	1103.4
30°	2077.8	2034.8	1710.0	1358.1	1095.5	1006.1	1012.9	1046.8	1063.8	1074.0	1060.4
32.5°	2182.0	2116.3	1639.9	1240.4	990.3	945.0	960.8	995.9	1016.3	1027.6	1040.0
35°	2332.5	2179.7	1568.6	1086.4	914.4	907.6	916.7	935.9	965.4	973.3	976.7
37.5°	2518.1	2275.9	1472.4	963.1	855.6	863.5	872.6	879.3	880.5	895.2	889.5
40°	2703.7	2357.4	1332.0	845.4	794.5	837.5	832.9	820.5	810.3	796.7	793.3
42.5°	2866.6	2428.7	1175.9	745.8	740.1	810.3	795.6	763.9	740.1	730.0	713.0
45°	3050.0	2529.4	1018.5	683.6	698.3	777.5	773.0	724.3	693.7	657.5	653.0
47.5°	3287.6	2634.6	868.0	619.0	658.7	765.0	767.3	705.1	660.9	612.3	605.5
50°	3592.1	2786.3	753.7	591.9	634.9	746.9	750.3	679.0	621.3	571.5	567.0
52.5°	3884.1	2941.3	658.7	550.0	619.0	725.4	733.4	655.3	588.5	526.2	529.6
55°	4031.2	2884.7	577.2	519.5	582.8	690.3	719.8	638.3	538.7	495.7	494.6
57.5°	4064.0	2745.5	512.7	487.8	552.3	653.0	697.1	587.4	516.1	479.8	475.3
60°	3956.5	2502.2	461.7	453.8	513.8	614.5	645.1	560.2	493.4	464.0	457.2
62.5°	3691.7	2249.9	426.7	438.0	481.0	572.6	612.3	541.0	471.9	451.6	436.8
65°	3027.3	1850.4	398.4	407.4	447.0	531.9	591.9	519.5	452.7	433.4	432.3
67.5°	2097.1	1275.4	375.7	392.7	419.9	502.5	571.5	495.7	427.8	421.0	411.9
70°	1074.0	680.2	346.3	359.9	390.4	465.1	535.3	470.8	401.8	400.6	389.3
72.5°	544.4	398.4	312.4	332.7	354.2	416.5	490.0	438.0	368.9	356.5	338.4
73°	470.8	368.9	306.7	324.8	345.2	402.9	476.5	430.1	364.4	346.3	329.3
75°	342.9	290.9	275.0	293.1	309.0	363.3	431.2	393.8	335.0	315.7	299.9
77.5°	256.9	224.1	228.6	249.0	262.6	313.5	383.7	356.5	303.3	277.3	270.5
80°	189.0	170.9	189.0	208.2	218.4	276.1	349.7	309.0	255.8	226.3	220.7
82.5°	134.7	124.5	146.0	158.4	163.0	228.6	314.6	246.7	193.5	155.0	142.6
85°	77.0	75.8	98.5	97.3	100.7	133.5	207.1	164.1	124.5	95.1	92.8
87.5°	34.0	37.3	49.8	39.6	41.9	63.4	88.3	61.1	50.9	28.3	21.5
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)