

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: P476514

Luminaire Tested: **IFLD-S-SA2B-730-U-T2**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P476514
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2B-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

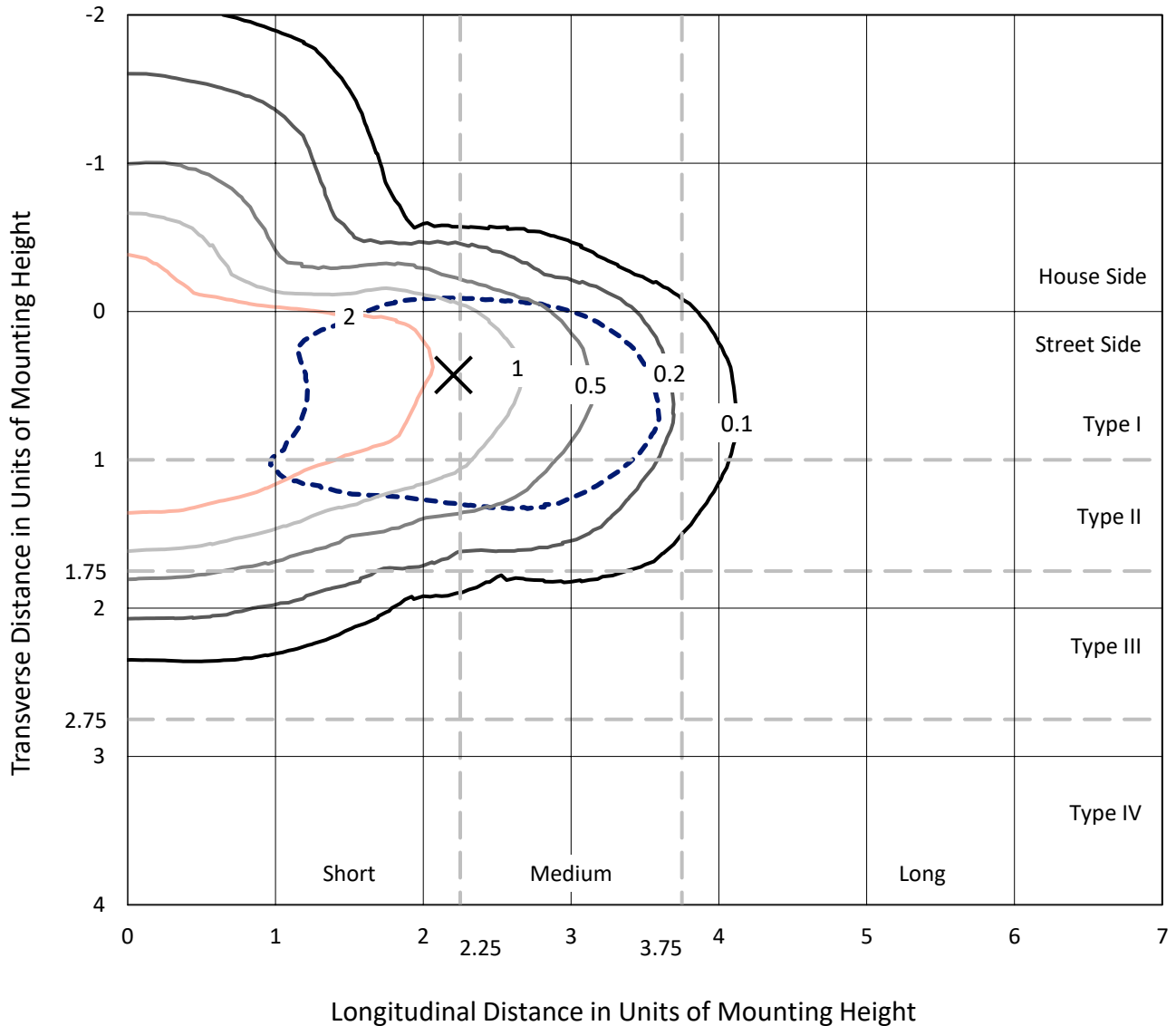
Lumens per Lamp: N/A
Luminaire Lumens: 10384.5 lumens
Efficiency: N/A
Efficacy: 126.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 82.4
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

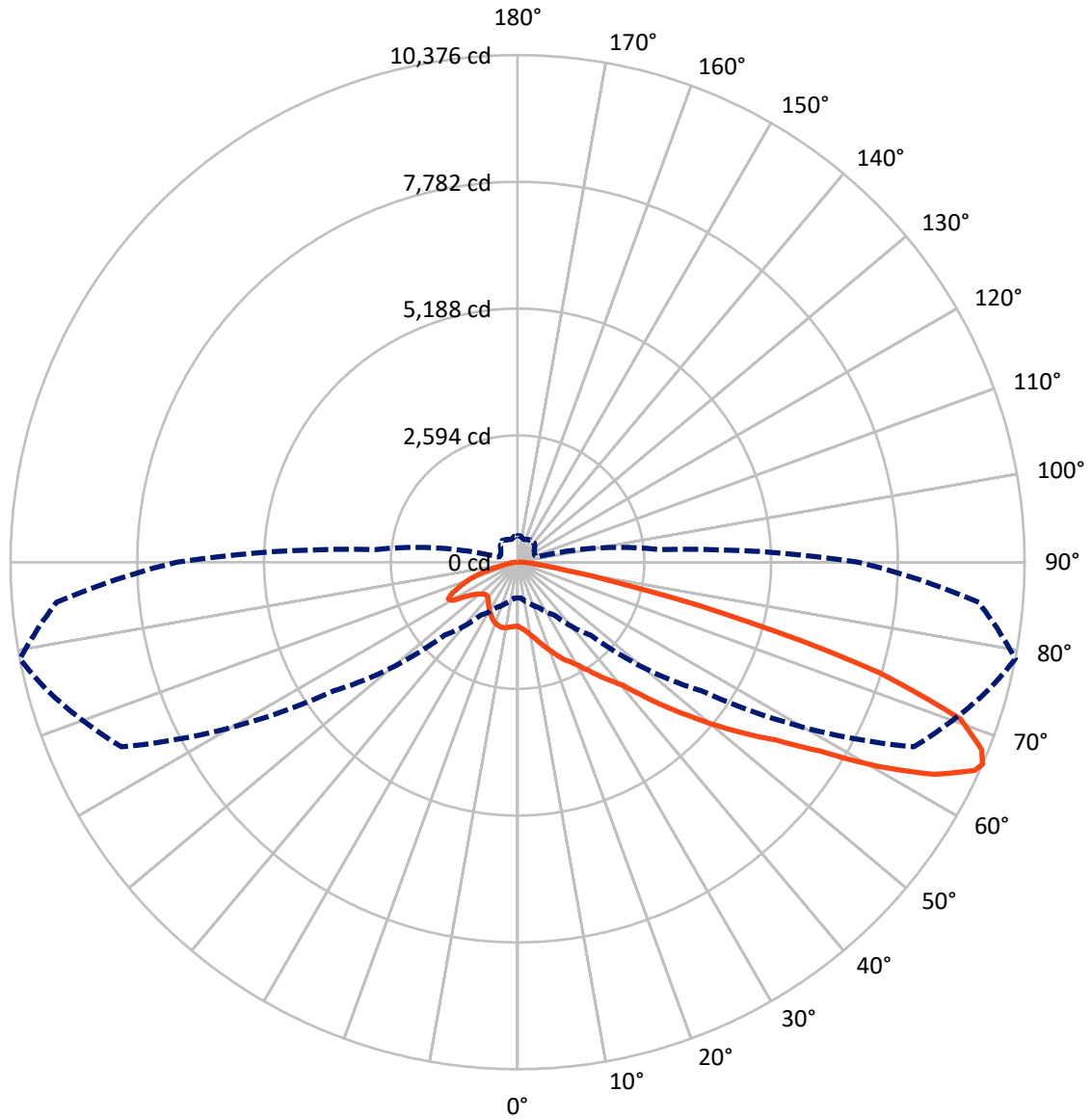
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.1 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	2097.0	0.0	2097.0
	% Fixture	20.2	0.0	20.2
Street Side	Lumens	8287.5	0.0	8287.5
	% Fixture	79.8	0.0	79.8
Total	Lumens	10384.5	0.0	10384.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	128.9	1.2
10°-20°	398.1	3.8
20°-30°	683.4	6.6
30°-40°	1055.8	10.2
40°-50°	1691.1	16.3
50°-60°	2524.9	24.3
60°-70°	2594.3	25.0
70°-80°	1150.0	11.1
80°-90°	157.8	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°	10384.5	100.0
0°-180°	10384.5	100.0

Coefficient of Utilization



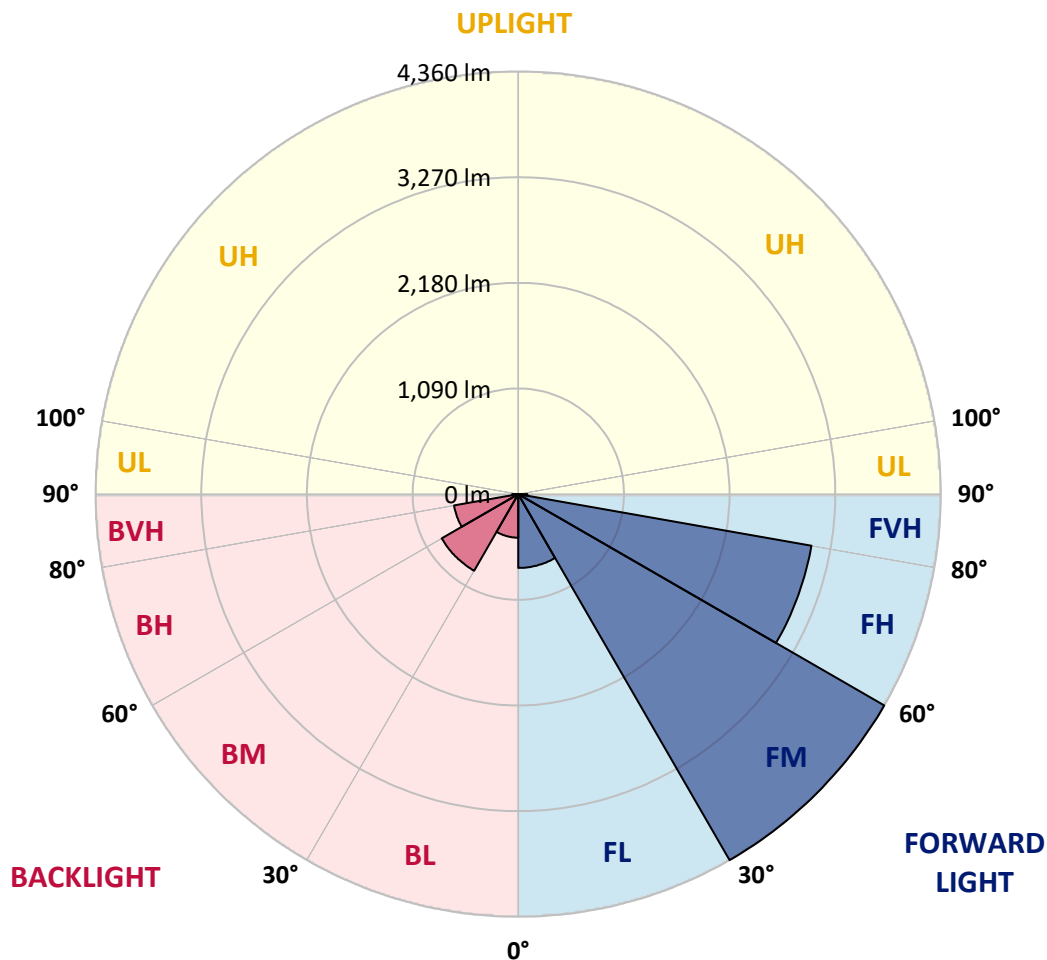
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	761.2	7.3			
FM (30°-60°)	4360.1	42.0			
FH (60°-80°)	3071.5	29.6			G2/5000
FVH (80°-90°)	94.6	0.9			G1/100
BL (0°-30°)	449.3	4.3	B1/500		
BM (30°-60°)	911.7	8.8	B1/1000		
BH (60°-80°)	672.9	6.5	B2/1000		G2/1000
BVH (80°-90°)	63.2	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°	1311.3	1311.3	1311.3	1311.3	1311.3	1311.3	1311.3	1311.3	1311.3	1311.3	1311.3
2.5°	1394.7	1395.8	1395.8	1391.2	1392.4	1395.8	1383.2	1355.8	1355.8	1351.2	1343.3
5°	1480.3	1474.6	1466.6	1467.8	1463.2	1463.2	1449.5	1423.2	1400.4	1391.2	1367.2
7.5°	1491.7	1497.5	1496.3	1510.0	1516.9	1516.9	1523.7	1502.0	1467.8	1446.1	1422.1
10°	1514.6	1499.7	1498.6	1530.6	1540.9	1564.8	1592.3	1580.8	1552.3	1521.4	1489.5
12.5°	1528.3	1537.4	1537.4	1553.4	1577.4	1612.8	1660.8	1682.5	1637.9	1606.0	1556.8
15°	1548.9	1536.3	1572.8	1586.5	1632.2	1657.4	1725.9	1781.9	1752.2	1713.3	1635.7
17.5°	1558.0	1550.0	1570.6	1595.7	1673.4	1711.0	1794.4	1872.1	1847.0	1821.8	1741.9
20°	1604.8	1603.7	1612.8	1633.4	1689.3	1763.6	1867.5	1974.9	1984.0	1938.4	1829.8
22.5°	1719.0	1704.2	1704.2	1696.2	1720.2	1796.7	1937.2	2085.7	2126.8	2073.1	1929.2
25°	1824.1	1844.7	1832.1	1795.6	1786.4	1826.4	1987.5	2203.3	2258.2	2207.9	2064.0
27.5°	1958.9	1965.8	1987.5	1938.4	1875.5	1888.1	2042.3	2269.6	2382.7	2315.3	2140.5
30°	2153.1	2140.5	2136.0	2081.1	1998.9	1981.8	2105.1	2366.7	2546.0	2451.2	2230.8
32.5°	2284.4	2315.3	2314.1	2238.8	2139.4	2101.7	2182.8	2458.1	2720.8	2632.8	2397.5
35°	2544.9	2576.9	2551.7	2440.9	2324.4	2249.0	2294.7	2576.9	2920.7	2852.1	2539.2
37.5°	2877.3	2952.6	2899.0	2694.5	2530.0	2447.8	2450.1	2705.9	3125.1	3069.2	2691.1
40°	3106.8	3208.5	3134.3	2942.4	2767.6	2689.9	2659.1	2859.0	3369.6	3310.2	2928.7
42.5°	3391.3	3475.8	3436.9	3247.3	3042.9	2976.6	2915.0	3114.8	3743.1	3715.6	3233.6
45°	3701.9	3741.9	3729.4	3609.4	3382.1	3359.3	3223.4	3451.8	4182.8	4194.2	3615.1
47.5°	3990.9	4012.6	4036.6	3949.8	3808.2	3827.6	3578.6	3812.7	4610.0	4685.4	4040.0
50°	4065.2	4139.4	4195.4	4253.6	4284.5	4415.8	3970.4	4255.9	5101.2	5247.4	4512.9
52.5°	3989.8	3984.1	4154.3	4337.0	4645.4	4920.7	4503.8	4806.5	5535.2	5824.2	4945.8
55°	3647.1	3635.7	3909.8	4152.0	4753.9	5201.7	5265.6	5539.8	6059.5	6435.3	5531.8
57.5°	3047.4	2976.6	3275.9	3673.4	4518.6	5232.5	6030.9	6628.3	6865.9	7294.2	6426.1
60°	2048.0	2018.3	2305.0	2779.0	3668.8	4795.0	6489.0	7991.0	8002.4	8484.4	7813.9
62.5°	1261.0	1266.7	1450.6	1805.9	2568.9	3801.3	6291.4	9079.5	9081.8	9565.0	8956.2
65°	824.7	828.1	976.6	1173.1	1604.8	2578.0	5202.8	9165.2	9832.2	10281.1	9479.3
66°	734.4	735.6	863.5	1023.4	1329.5	2109.7	4595.2	8942.5	10001.3	10375.9	9472.4
67.5°	619.1	633.9	736.7	860.1	1037.1	1515.7	3646.0	8298.2	9914.5	10243.4	9257.7
70°	484.3	492.3	573.4	699.0	777.9	877.2	2166.8	6764.2	9075.0	9608.4	8476.4
72.5°	388.4	395.2	456.9	567.7	631.6	578.0	1179.9	4908.1	7168.6	7737.4	6667.2
75°	327.8	329.0	358.7	446.6	519.7	434.0	628.2	3150.2	4599.7	4864.7	4084.6
77.5°	265.0	269.6	290.1	340.4	418.1	341.5	374.6	1764.7	2309.6	2329.0	1888.1
80°	215.9	218.2	230.7	247.9	318.7	252.4	253.6	861.2	990.3	967.5	767.6
82.5°	170.2	172.5	187.3	183.9	234.2	180.5	157.6	414.6	455.7	446.6	352.9
85°	95.9	95.9	147.3	147.3	148.5	114.2	95.9	195.3	241.0	225.0	165.6
87.5°	30.8	32.0	44.5	46.8	74.2	51.4	46.8	73.1	114.2	100.5	59.4
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°	1311.3	1311.3	1311.3	1311.3	1311.3	1311.3	1311.3	1311.3	1311.3	1311.3	1311.3
2.5°	1338.7	1320.4	1312.4	1286.1	1279.3	1262.2	1254.2	1243.9	1240.5	1225.6	1239.3
5°	1349.0	1343.3	1311.3	1278.1	1253.0	1241.6	1224.5	1201.6	1199.3	1178.8	1176.5
7.5°	1392.4	1373.0	1317.0	1281.6	1231.3	1202.8	1165.1	1153.6	1138.8	1131.9	1146.8
10°	1459.8	1410.6	1327.3	1238.2	1176.5	1142.2	1114.8	1106.8	1108.0	1103.4	1096.5
12.5°	1507.7	1460.9	1310.1	1201.6	1121.7	1088.5	1086.3	1094.2	1106.8	1101.1	1109.1
15°	1576.3	1488.3	1297.6	1141.1	1077.1	1068.0	1066.8	1090.8	1089.7	1089.7	1088.5
17.5°	1640.2	1515.7	1251.9	1088.5	1030.3	1037.1	1045.1	1044.0	1055.4	1060.0	1068.0
20°	1721.3	1547.7	1187.9	1036.0	994.9	992.6	991.4	992.6	1004.0	1010.9	1005.2
22.5°	1792.1	1554.6	1134.2	985.7	952.6	943.5	928.6	943.5	937.8	940.0	946.9
25°	1853.8	1555.7	1057.7	948.0	910.4	889.8	878.4	877.2	866.9	865.8	865.8
27.5°	1905.2	1516.9	990.3	895.5	860.1	840.7	839.5	827.0	800.7	783.6	785.8
30°	1945.2	1487.2	943.5	849.8	815.5	812.1	801.8	773.3	739.0	717.3	717.3
32.5°	2016.0	1427.8	879.5	803.0	785.8	781.3	757.3	732.2	700.2	679.6	676.2
35°	2068.6	1373.0	837.2	763.0	755.0	745.9	725.3	697.9	688.8	684.2	687.6
37.5°	2128.0	1311.3	785.8	728.7	736.7	719.6	695.6	683.0	715.0	707.0	710.5
40°	2222.8	1267.9	735.6	708.2	716.2	696.8	665.9	661.3	701.3	672.8	665.9
42.5°	2396.4	1266.7	704.8	677.3	683.0	668.2	640.8	638.5	654.5	620.2	609.9
45°	2612.3	1306.7	681.9	654.5	649.9	647.6	638.5	628.2	614.5	570.0	558.5
47.5°	2870.4	1371.8	677.3	620.2	625.9	645.4	633.9	607.7	572.3	543.7	538.0
50°	3183.4	1506.6	665.9	595.1	605.4	636.2	627.1	590.5	558.5	540.3	536.8
52.5°	3529.5	1676.8	651.1	556.3	579.1	628.2	632.8	598.5	551.7	535.7	533.4
55°	3937.2	1928.1	633.9	514.0	548.3	620.2	632.8	575.7	542.6	542.6	540.3
57.5°	4742.5	2380.4	598.5	475.2	520.9	605.4	614.5	576.8	543.7	543.7	539.1
60°	5923.6	3086.3	531.1	445.5	494.6	584.8	600.8	559.7	531.1	538.0	536.8
62.5°	6847.6	3301.0	474.0	416.9	468.3	547.1	582.5	541.4	516.3	541.4	543.7
65°	7045.2	3084.0	415.8	386.1	431.8	510.6	556.3	515.1	494.6	543.7	546.0
66°	6974.4	2915.0	395.2	376.9	415.8	492.3	540.3	506.0	483.2	541.4	542.6
67.5°	6659.2	2661.4	372.4	357.5	394.1	466.0	522.0	493.4	464.9	534.6	524.3
70°	5973.8	2257.0	333.5	323.2	363.2	422.6	479.7	461.5	436.3	492.3	474.0
72.5°	4600.9	1803.6	292.4	293.6	327.8	378.1	437.5	424.9	403.2	431.8	420.3
75°	2801.9	1152.5	254.7	257.0	285.6	335.8	397.5	388.4	362.1	378.1	372.4
77.5°	1241.6	571.1	214.7	219.3	242.2	295.8	346.1	331.2	303.8	307.3	305.0
80°	482.0	270.7	174.8	180.5	195.3	236.4	286.7	273.0	249.0	244.4	242.2
82.5°	231.9	150.8	134.8	137.1	142.8	188.5	246.7	229.6	197.6	177.0	177.0
85°	116.5	93.7	94.8	86.8	94.8	127.9	166.8	139.4	115.4	102.8	105.1
87.5°	46.8	46.8	46.8	40.0	42.3	60.5	77.7	52.5	48.0	28.6	28.6
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)