

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: P476440

Luminaire Tested: **IFLD-S-SA3A-722-U-T2**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P476440
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3A-722-U-T2
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens
Light Source: (48) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

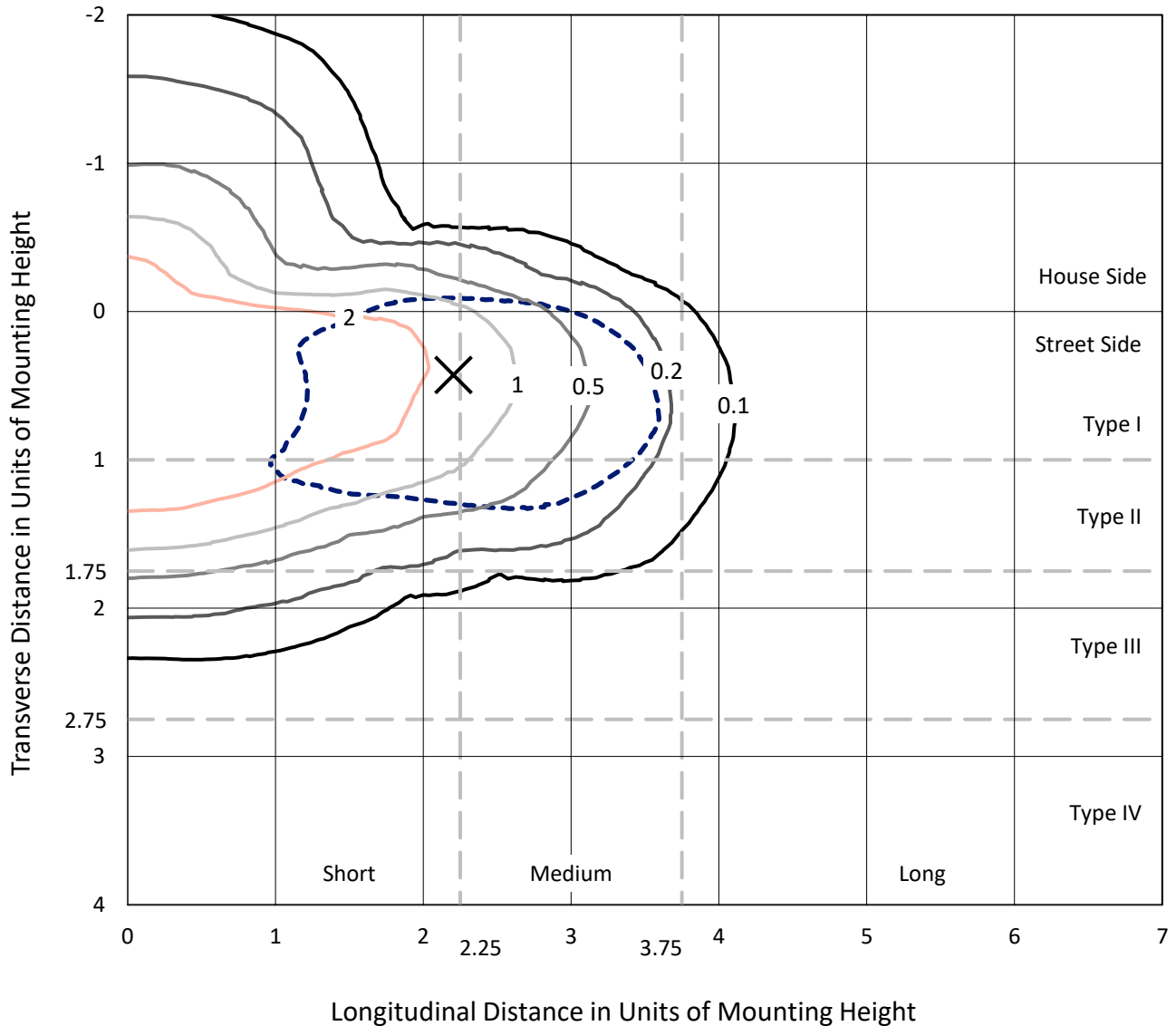
Lumens per Lamp: N/A
Luminaire Lumens: 10122.3 lumens
Efficiency: N/A
Efficacy: 106.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 94.8
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

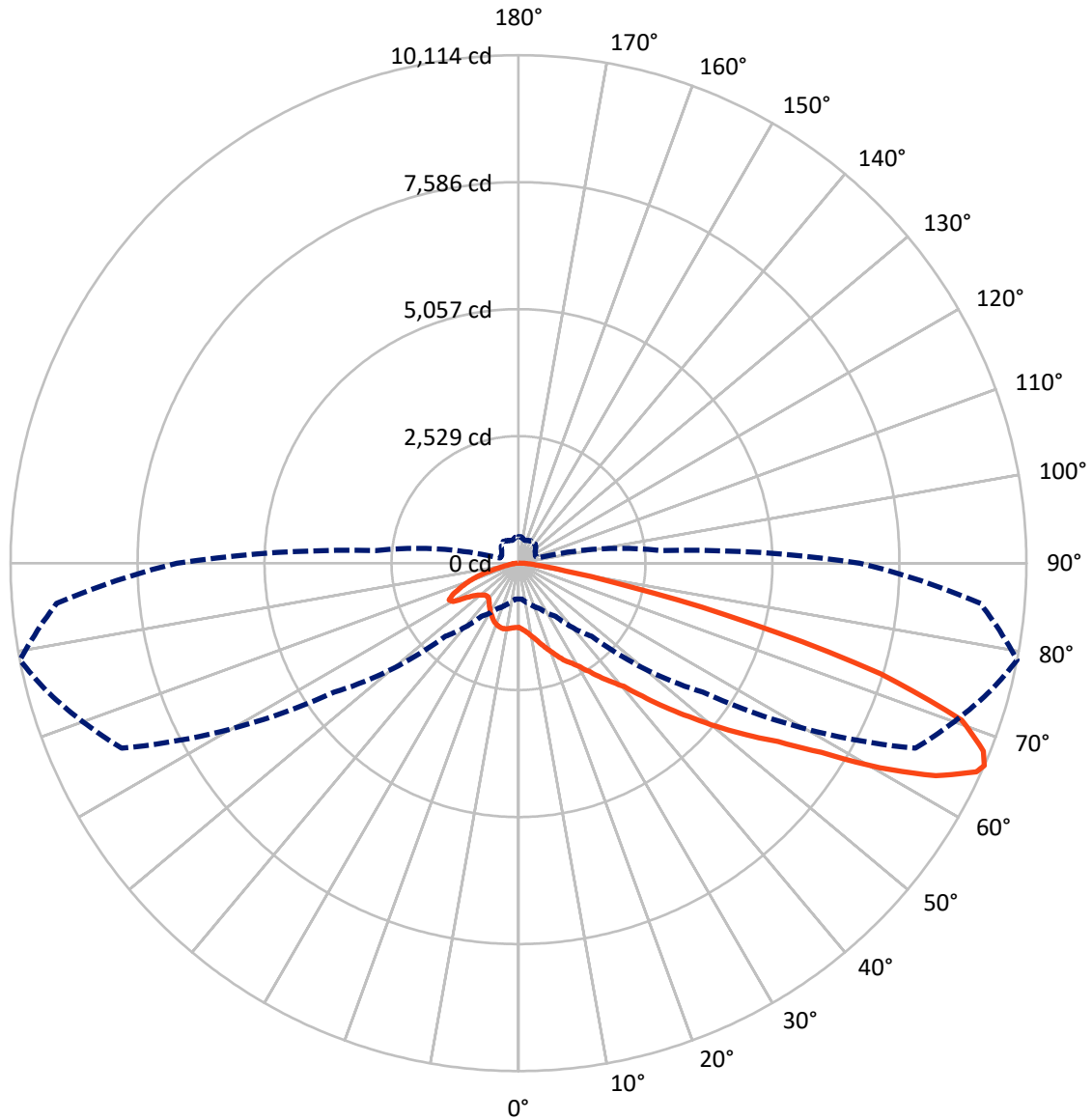
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4 fc
 Type 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	2044.1	0.0	2044.1
	% Fixture	20.2	0.0	20.2
Street Side	Lumens	8078.2	0.0	8078.2
	% Fixture	79.8	0.0	79.8
Total	Lumens	10122.3	0.0	10122.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	125.7	1.2
10°-20°	388.1	3.8
20°-30°	666.2	6.6
30°-40°	1029.1	10.2
40°-50°	1648.4	16.3
50°-60°	2461.2	24.3
60°-70°	2528.8	25.0
70°-80°	1121.0	11.1
80°-90°	153.8	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°	10122.3	100.0
0°-180°	10122.3	100.0

Coefficient of Utilization



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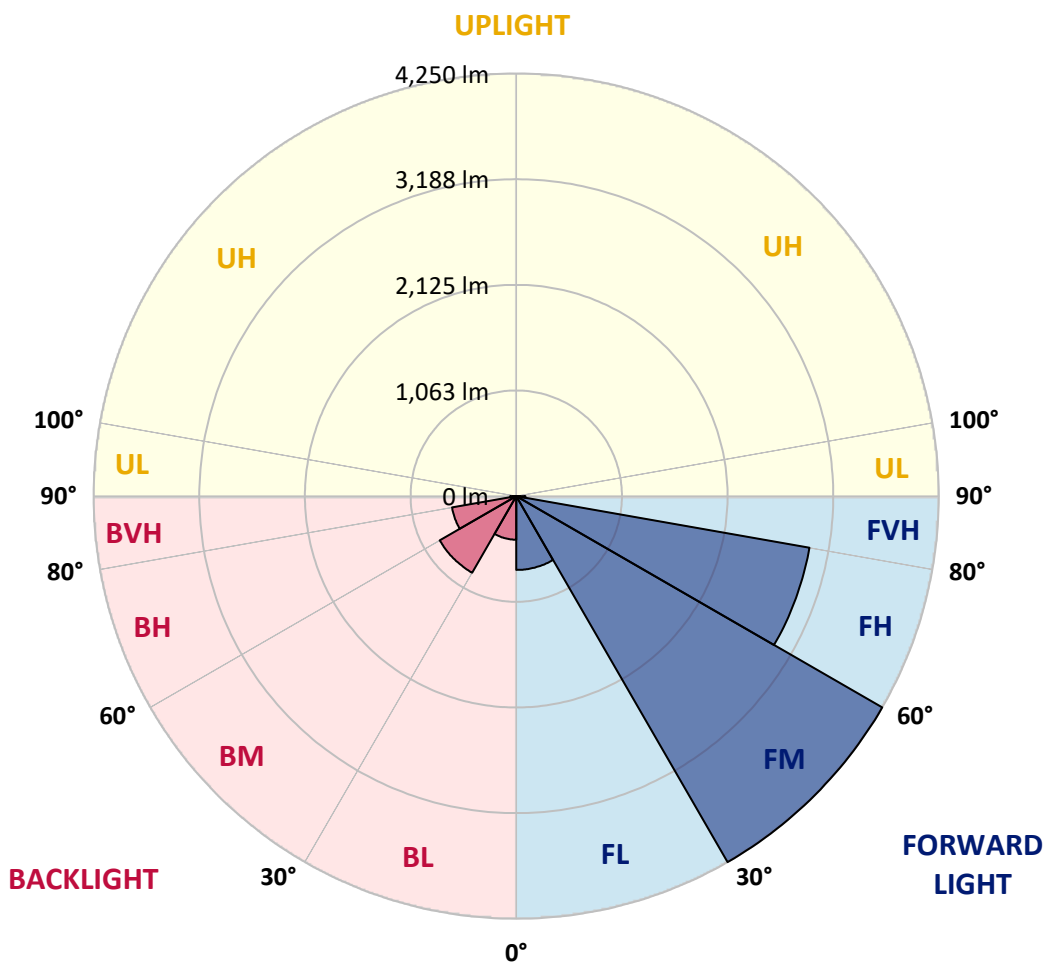
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	742.0	7.3			
FM (30°-60°)	4250.0	42.0			
FH (60°-80°)	2994.0	29.6			G2/5000
FVH (80°-90°)	92.2	0.9			G1/100
BL (0°-30°)	437.9	4.3	B1/500		
BM (30°-60°)	888.7	8.8	B1/1000		
BH (60°-80°)	655.9	6.5	B2/1000		G2/1000
BVH (80°-90°)	61.6	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°	1278.2	1278.2	1278.2	1278.2	1278.2	1278.2	1278.2	1278.2	1278.2	1278.2	1278.2
2.5°	1359.4	1360.6	1360.6	1356.1	1357.2	1360.6	1348.3	1321.6	1321.6	1317.1	1309.3
5°	1442.9	1437.4	1429.6	1430.7	1426.2	1426.2	1412.9	1387.3	1365.0	1356.1	1332.7
7.5°	1454.1	1459.6	1458.5	1471.9	1478.6	1478.6	1485.3	1464.1	1430.7	1409.5	1386.2
10°	1476.3	1461.9	1460.8	1491.9	1502.0	1525.3	1552.1	1540.9	1513.1	1483.0	1451.9
12.5°	1489.7	1498.6	1498.6	1514.2	1537.6	1572.1	1618.9	1640.0	1596.6	1565.4	1517.5
15°	1509.7	1497.5	1533.1	1546.5	1591.0	1615.5	1682.3	1736.9	1707.9	1670.1	1594.4
17.5°	1518.7	1510.9	1530.9	1555.4	1631.1	1667.9	1749.1	1824.8	1800.3	1775.8	1697.9
20°	1564.3	1563.2	1572.1	1592.1	1646.7	1719.1	1820.4	1925.0	1933.9	1889.4	1783.6
22.5°	1675.6	1661.2	1661.2	1653.4	1676.8	1751.4	1888.3	2033.0	2073.1	2020.8	1880.5
25°	1778.1	1798.1	1785.9	1750.2	1741.3	1780.3	1937.3	2147.7	2201.2	2152.2	2011.9
27.5°	1909.5	1916.1	1937.3	1889.4	1828.2	1840.4	1990.7	2212.3	2322.5	2256.8	2086.5
30°	2098.7	2086.5	2082.0	2028.6	1948.4	1931.7	2052.0	2306.9	2481.7	2389.3	2174.4
32.5°	2226.8	2256.8	2255.7	2182.2	2085.4	2048.6	2127.7	2396.0	2652.1	2566.4	2337.0
35°	2480.6	2511.8	2487.3	2379.3	2265.7	2192.3	2236.8	2511.8	2846.9	2780.1	2475.1
37.5°	2804.6	2878.1	2825.8	2626.5	2466.1	2386.0	2388.2	2637.6	3046.2	2991.7	2623.1
40°	3028.4	3127.5	3055.1	2868.1	2697.7	2622.0	2592.0	2786.8	3284.5	3226.6	2854.7
42.5°	3305.6	3388.0	3350.2	3165.4	2966.1	2901.5	2841.4	3036.2	3648.6	3621.8	3152.0
45°	3608.5	3647.4	3635.2	3518.3	3296.7	3274.5	3142.0	3364.6	4077.2	4088.3	3523.9
47.5°	3890.2	3911.3	3934.7	3850.1	3712.0	3731.0	3488.2	3716.5	4493.6	4567.1	3938.0
50°	3962.5	4034.9	4089.5	4146.2	4176.3	4304.3	3870.1	4148.5	4972.4	5114.9	4399.0
52.5°	3889.1	3883.5	4049.4	4227.5	4528.1	4796.5	4390.1	4685.1	5395.5	5677.1	4821.0
55°	3555.0	3543.9	3811.1	4047.2	4633.9	5070.4	5132.7	5399.9	5906.5	6272.8	5392.1
57.5°	2970.5	2901.5	3193.2	3580.6	4404.5	5100.4	5878.7	6461.0	6692.6	7110.1	6263.9
60°	1996.3	1967.4	2246.8	2708.9	3576.2	4674.0	6325.1	7789.2	7800.4	8270.2	7616.7
62.5°	1229.2	1234.7	1414.0	1760.3	2504.0	3705.3	6132.5	8850.3	8852.5	9323.5	8730.0
65°	803.9	807.2	951.9	1143.4	1564.3	2512.9	5071.5	8933.8	9584.0	10021.6	9240.0
66°	715.9	717.0	841.7	997.6	1296.0	2056.4	4479.1	8716.7	9748.8	10114.0	9233.3
67.5°	603.5	617.9	718.1	838.4	1011.0	1477.5	3553.9	8088.7	9664.2	9984.8	9024.0
70°	472.1	479.9	558.9	681.4	758.2	855.1	2112.1	6593.5	8845.8	9365.8	8262.4
72.5°	378.6	385.2	445.4	553.4	615.7	563.4	1150.1	4784.2	6987.6	7542.1	6498.8
75°	319.5	320.7	349.6	435.3	506.6	423.1	612.4	3070.7	4483.6	4741.9	3981.5
77.5°	258.3	262.8	282.8	331.8	407.5	332.9	365.2	1720.2	2251.3	2270.2	1840.4
80°	210.4	212.7	224.9	241.6	310.6	246.1	247.2	839.5	965.3	943.0	748.2
82.5°	165.9	168.1	182.6	179.3	228.2	175.9	153.6	404.2	444.2	435.3	344.0
85°	93.5	93.5	143.6	143.6	144.7	111.3	93.5	190.4	234.9	219.3	161.4
87.5°	30.1	31.2	43.4	45.6	72.4	50.1	45.6	71.3	111.3	98.0	57.9
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°	1278.2	1278.2	1278.2	1278.2	1278.2	1278.2	1278.2	1278.2	1278.2	1278.2	1278.2
2.5°	1304.9	1287.1	1279.3	1253.7	1247.0	1230.3	1222.5	1212.5	1209.1	1194.7	1208.0
5°	1314.9	1309.3	1278.2	1245.9	1221.4	1210.2	1193.5	1171.3	1169.1	1149.0	1146.8
7.5°	1357.2	1338.3	1283.7	1249.2	1200.2	1172.4	1135.7	1124.5	1110.0	1103.4	1117.8
10°	1422.9	1375.0	1293.8	1206.9	1146.8	1113.4	1086.7	1078.9	1080.0	1075.5	1068.8
12.5°	1469.7	1424.0	1277.1	1171.3	1093.3	1061.1	1058.8	1066.6	1078.9	1073.3	1081.1
15°	1536.5	1450.7	1264.8	1112.3	1049.9	1041.0	1039.9	1063.3	1062.2	1062.2	1061.1
17.5°	1598.8	1477.5	1220.3	1061.1	1004.3	1011.0	1018.7	1017.6	1028.8	1033.2	1041.0
20°	1677.9	1508.6	1157.9	1009.8	969.8	967.5	966.4	967.5	978.7	985.3	979.8
22.5°	1746.9	1515.3	1105.6	960.9	928.6	919.7	905.2	919.7	914.1	916.3	923.0
25°	1807.0	1516.4	1031.0	924.1	887.4	867.3	856.2	855.1	845.1	843.9	843.9
27.5°	1857.1	1478.6	965.3	872.9	838.4	819.5	818.3	806.1	780.5	763.8	766.0
30°	1896.1	1449.6	919.7	828.4	795.0	791.6	781.6	753.8	720.4	699.2	699.2
32.5°	1965.1	1391.7	857.3	782.7	766.0	761.6	738.2	713.7	682.5	662.5	659.1
35°	2016.3	1338.3	816.1	743.7	735.9	727.0	707.0	680.3	671.4	666.9	670.3
37.5°	2074.2	1278.2	766.0	710.3	718.1	701.4	678.1	665.8	697.0	689.2	692.5
40°	2166.6	1235.9	717.0	690.3	698.1	679.2	649.1	644.6	683.6	655.8	649.1
42.5°	2335.9	1234.7	687.0	660.2	665.8	651.3	624.6	622.4	638.0	604.6	594.5
45°	2546.3	1273.7	664.7	638.0	633.5	631.3	622.4	612.4	599.0	555.6	544.4
47.5°	2797.9	1337.2	660.2	604.6	610.1	629.1	617.9	592.3	557.8	530.0	524.4
50°	3103.0	1468.6	649.1	580.1	590.1	620.2	611.2	575.6	544.4	526.6	523.3
52.5°	3440.4	1634.4	634.6	542.2	564.5	612.4	616.8	583.4	537.8	522.2	520.0
55°	3837.8	1879.4	617.9	501.0	534.4	604.6	616.8	561.1	528.9	528.9	526.6
57.5°	4622.8	2320.3	583.4	463.2	507.7	590.1	599.0	562.3	530.0	530.0	525.5
60°	5774.0	3008.4	517.7	434.2	482.1	570.1	585.6	545.6	517.7	524.4	523.3
62.5°	6674.7	3217.7	462.1	406.4	456.5	533.3	567.8	527.7	503.2	527.7	530.0
65°	6867.4	3006.1	405.3	376.3	420.9	497.7	542.2	502.1	482.1	530.0	532.2
66°	6798.3	2841.4	385.2	367.4	405.3	479.9	526.6	493.2	471.0	527.7	528.9
67.5°	6491.0	2594.2	363.0	348.5	384.1	454.3	508.8	481.0	453.1	521.1	511.0
70°	5823.0	2200.0	325.1	315.1	354.1	412.0	467.6	449.8	425.3	479.9	462.1
72.5°	4484.7	1758.0	285.0	286.1	319.5	368.5	426.4	414.2	393.0	420.9	409.7
75°	2731.1	1123.4	248.3	250.5	278.3	327.3	387.5	378.6	352.9	368.5	363.0
77.5°	1210.2	556.7	209.3	213.8	236.0	288.4	337.4	322.9	296.2	299.5	297.3
80°	469.8	263.9	170.3	175.9	190.4	230.5	279.5	266.1	242.7	238.3	236.0
82.5°	226.0	147.0	131.4	133.6	139.2	183.7	240.5	223.8	192.6	172.6	172.6
85°	113.6	91.3	92.4	84.6	92.4	124.7	162.6	135.8	112.5	100.2	102.4
87.5°	45.6	45.6	45.6	39.0	41.2	59.0	75.7	51.2	46.8	27.8	27.8
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)