

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: P476437

Luminaire Tested: **IFLD-S-SA2C-722-U-T2**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P476437
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2C-722-U-T2
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens
Light Source: (32) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

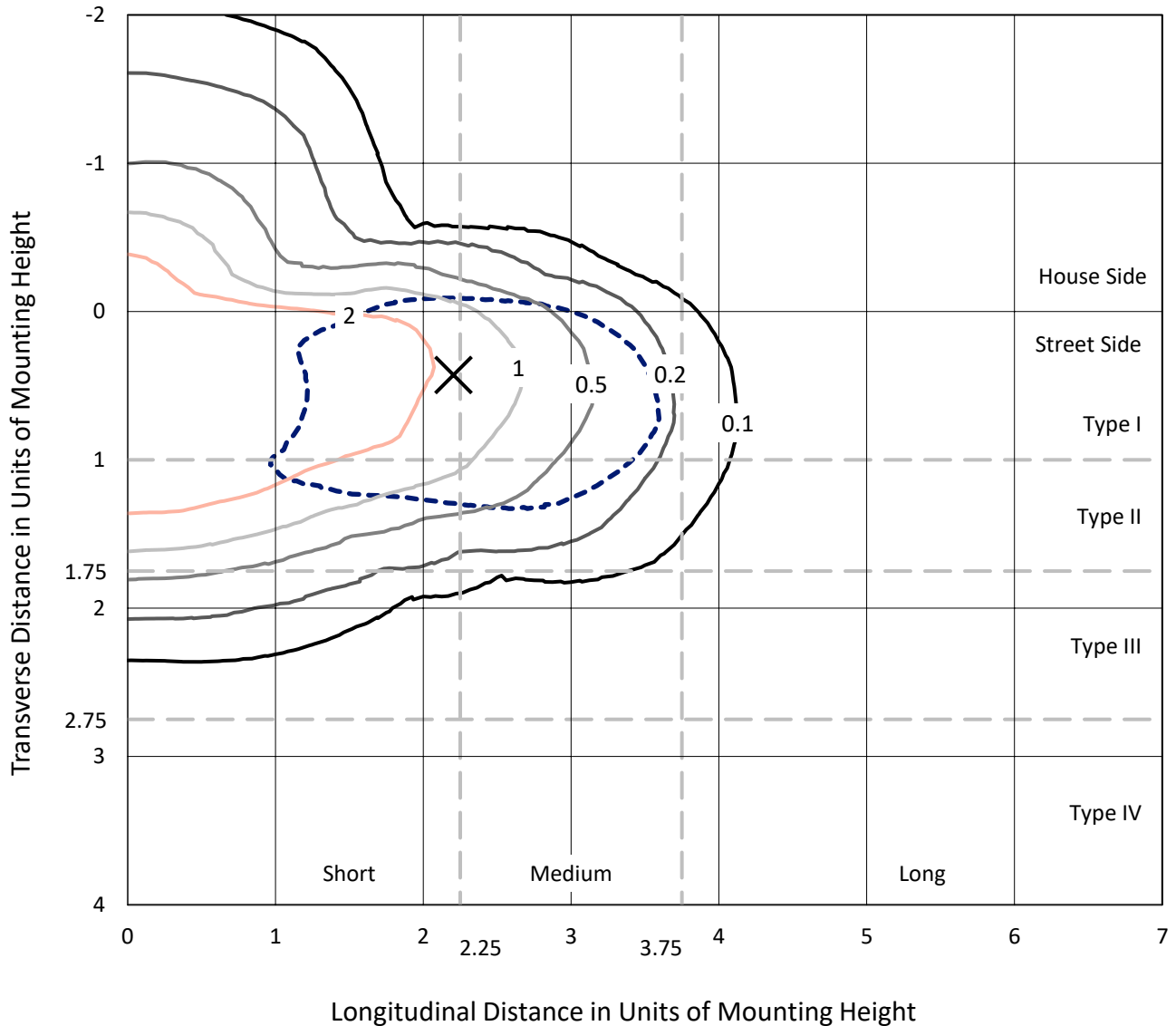
Lumens per Lamp: N/A
Luminaire Lumens: 10457 lumens
Efficiency: N/A
Efficacy: 96.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

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

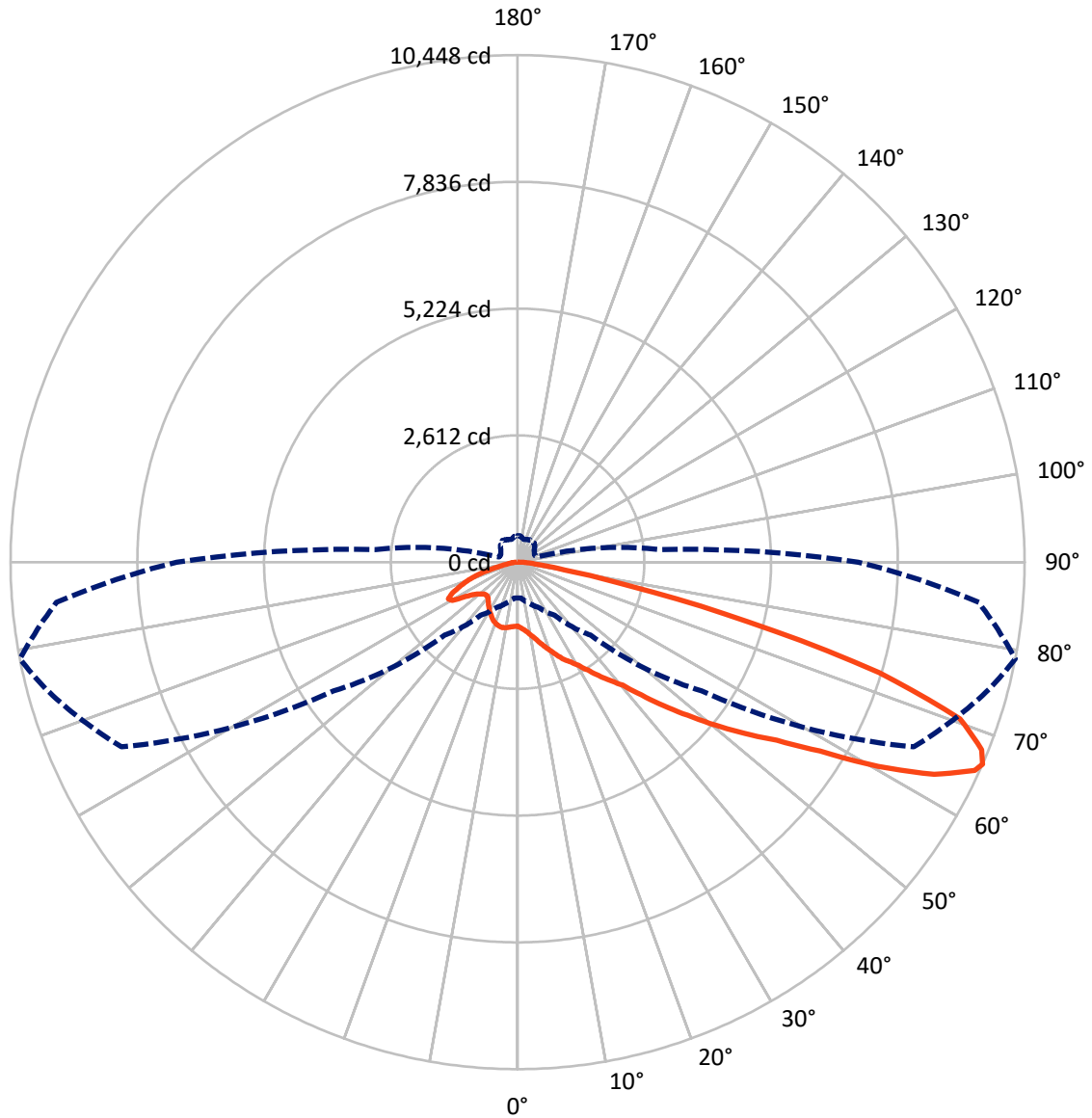
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.2 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	2111.6	0.0	2111.6
	% Fixture	20.2	0.0	20.2
Street Side	Lumens	8345.3	0.0	8345.3
	% Fixture	79.8	0.0	79.8
Total	Lumens	10457.0	0.0	10457.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	129.8	1.2
10°-20°	400.9	3.8
20°-30°	688.2	6.6
30°-40°	1063.1	10.2
40°-50°	1702.9	16.3
50°-60°	2542.5	24.3
60°-70°	2612.5	25.0
70°-80°	1158.1	11.1
80°-90°	158.9	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°	10457.0	100.0
0°-180°	10457.0	100.0

Coefficient of Utilization



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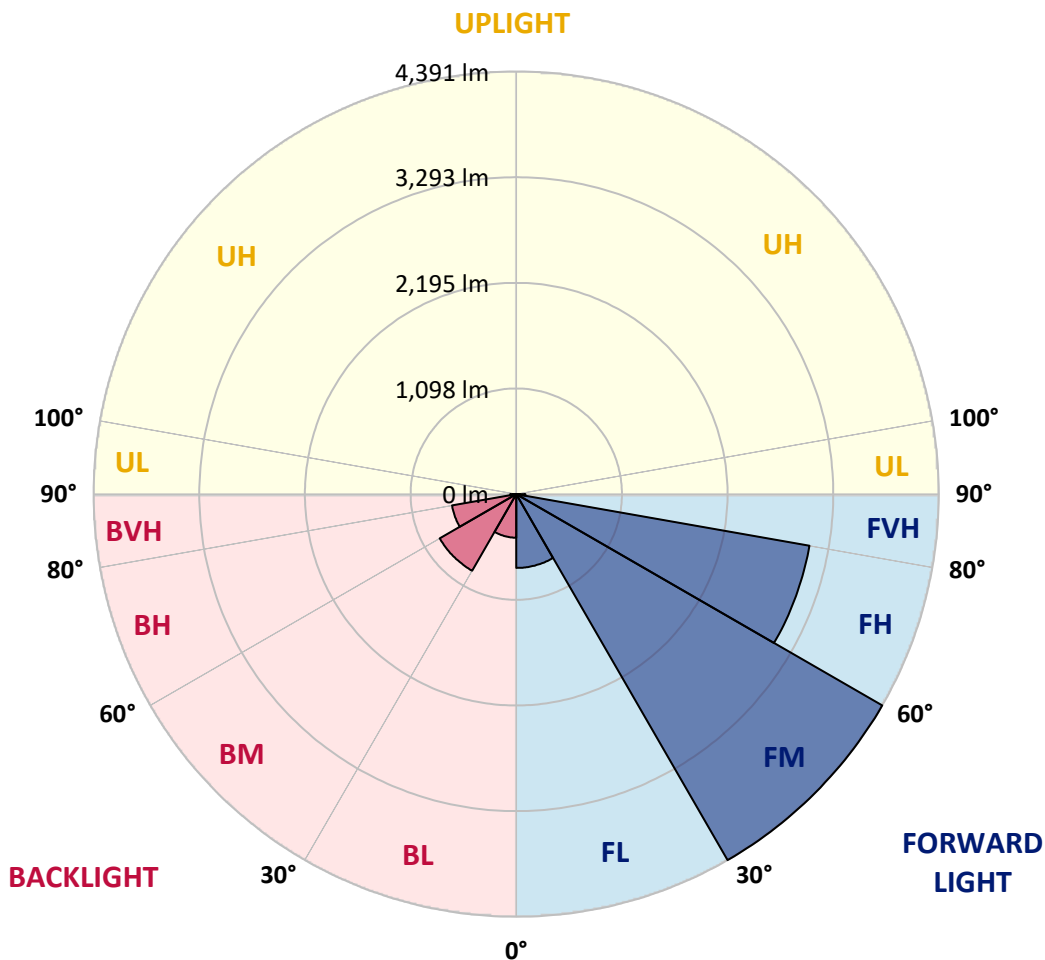
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	766.6	7.3			
FM (30°-60°)	4390.5	42.0			
FH (60°-80°)	3092.9	29.6			G2/5000
FVH (80°-90°)	95.3	0.9			G1/100
BL (0°-30°)	452.4	4.3	B1/500		
BM (30°-60°)	918.0	8.8	B1/1000		
BH (60°-80°)	677.6	6.5	B2/1000		G2/1000
BVH (80°-90°)	63.6	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°	1320.4	1320.4	1320.4	1320.4	1320.4	1320.4	1320.4	1320.4	1320.4	1320.4	1320.4
2.5°	1404.4	1405.5	1405.5	1400.9	1402.1	1405.5	1392.9	1365.3	1365.3	1360.7	1352.6
5°	1490.7	1484.9	1476.8	1478.0	1473.4	1473.4	1459.6	1433.1	1410.1	1400.9	1376.8
7.5°	1502.2	1507.9	1506.8	1520.6	1527.5	1527.5	1534.4	1512.5	1478.0	1456.1	1432.0
10°	1525.2	1510.2	1509.1	1541.3	1551.6	1575.8	1603.4	1591.9	1563.1	1532.1	1499.9
12.5°	1539.0	1548.2	1548.2	1564.3	1588.4	1624.1	1672.4	1694.2	1649.4	1617.2	1567.7
15°	1559.7	1547.0	1583.8	1597.6	1643.6	1668.9	1737.9	1794.3	1764.4	1725.3	1647.1
17.5°	1568.9	1560.8	1581.5	1606.8	1685.0	1723.0	1807.0	1885.2	1859.9	1834.6	1754.0
20°	1616.0	1614.9	1624.1	1644.8	1701.1	1775.9	1880.6	1988.7	1997.9	1951.9	1842.6
22.5°	1731.0	1716.1	1716.1	1708.0	1732.2	1809.3	1950.7	2100.3	2141.7	2087.6	1942.7
25°	1836.9	1857.6	1844.9	1808.1	1798.9	1839.2	2001.3	2218.7	2273.9	2223.3	2078.4
27.5°	1972.6	1979.5	2001.3	1951.9	1888.6	1901.3	2056.5	2285.4	2399.3	2331.4	2155.5
30°	2168.1	2155.5	2150.9	2095.7	2012.8	1995.6	2119.8	2383.2	2563.8	2468.3	2246.3
32.5°	2300.4	2331.4	2330.3	2254.4	2154.3	2116.4	2198.0	2475.2	2739.8	2651.2	2414.3
35°	2562.6	2594.8	2569.5	2458.0	2340.6	2264.7	2310.7	2594.8	2941.0	2872.0	2556.9
37.5°	2897.3	2973.3	2919.2	2713.3	2547.7	2464.9	2467.2	2724.8	3146.9	3090.6	2709.9
40°	3128.5	3230.9	3156.1	2962.9	2786.9	2708.7	2677.7	2878.9	3393.1	3333.3	2949.1
42.5°	3414.9	3500.0	3460.9	3270.0	3064.1	2997.4	2935.3	3136.6	3769.2	3741.6	3256.2
45°	3727.8	3768.0	3755.4	3634.6	3405.7	3382.7	3245.8	3475.9	4212.0	4223.5	3640.4
47.5°	4018.8	4040.6	4064.8	3977.4	3834.7	3854.3	3603.6	3839.3	4642.2	4718.1	4068.2
50°	4093.5	4168.3	4224.7	4283.3	4314.4	4446.7	3998.1	4285.6	5136.8	5284.0	4544.4
52.5°	4017.6	4011.9	4183.3	4367.3	4677.8	4955.0	4535.2	4840.0	5573.8	5864.8	4980.3
55°	3672.6	3661.1	3937.1	4181.0	4787.1	5238.0	5302.4	5578.4	6101.8	6480.2	5570.4
57.5°	3068.7	2997.4	3298.8	3699.0	4550.2	5269.0	6073.0	6674.6	6913.8	7345.1	6471.0
60°	2062.3	2032.4	2321.1	2798.4	3694.4	4828.5	6534.3	8046.8	8058.3	8543.6	7868.5
62.5°	1269.8	1275.6	1460.7	1818.5	2586.8	3827.8	6335.3	9142.9	9145.2	9631.7	9018.7
65°	830.4	833.9	983.4	1181.2	1616.0	2596.0	5239.1	9229.2	9900.9	10352.9	9545.5
66°	739.6	740.7	869.5	1030.6	1338.8	2124.4	4627.2	9004.9	10071.1	10448.4	9538.6
67.5°	623.4	638.4	741.9	866.1	1044.4	1526.3	3671.4	8356.2	9983.7	10314.9	9322.3
70°	487.7	495.7	577.4	703.9	783.3	883.3	2181.9	6811.5	9138.3	9675.4	8535.6
72.5°	391.1	398.0	460.1	571.6	636.1	582.0	1188.2	4942.4	7218.6	7791.4	6713.7
75°	330.1	331.3	361.2	449.7	523.3	437.1	632.6	3172.2	4631.8	4898.7	4113.1
77.5°	266.8	271.4	292.1	342.8	421.0	343.9	377.3	1777.1	2325.7	2345.2	1901.3
80°	217.4	219.7	232.3	249.6	320.9	254.2	255.3	867.2	997.2	974.2	772.9
82.5°	171.4	173.7	188.6	185.2	235.8	181.7	158.7	417.5	458.9	449.7	355.4
85°	96.6	96.6	148.4	148.4	149.5	115.0	96.6	196.7	242.7	226.6	166.8
87.5°	31.1	32.2	44.9	47.2	74.8	51.8	47.2	73.6	115.0	101.2	59.8
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°	1320.4	1320.4	1320.4	1320.4	1320.4	1320.4	1320.4	1320.4	1320.4	1320.4	1320.4
2.5°	1348.0	1329.6	1321.6	1295.1	1288.2	1271.0	1262.9	1252.6	1249.1	1234.2	1248.0
5°	1358.4	1352.6	1320.4	1287.1	1261.8	1250.3	1233.0	1210.0	1207.7	1187.0	1184.7
7.5°	1402.1	1382.5	1326.2	1290.5	1239.9	1211.2	1173.2	1161.7	1146.7	1139.8	1154.8
10°	1469.9	1420.5	1336.5	1246.8	1184.7	1150.2	1122.6	1114.5	1115.7	1111.1	1104.2
12.5°	1518.3	1471.1	1319.3	1210.0	1129.5	1096.1	1093.8	1101.9	1114.5	1108.8	1116.8
15°	1587.3	1498.7	1306.6	1149.0	1084.6	1075.4	1074.3	1098.4	1097.3	1097.3	1096.1
17.5°	1651.7	1526.3	1260.6	1096.1	1037.5	1044.4	1052.4	1051.3	1062.8	1067.4	1075.4
20°	1733.3	1558.5	1196.2	1043.2	1001.8	999.5	998.4	999.5	1011.0	1017.9	1012.2
22.5°	1804.7	1565.4	1142.1	992.6	959.3	950.1	935.1	950.1	944.3	946.6	953.5
25°	1866.8	1566.6	1065.1	954.7	916.7	896.0	884.5	883.3	873.0	871.8	871.8
27.5°	1918.5	1527.5	997.2	901.8	866.1	846.5	845.4	832.7	806.3	789.0	791.3
30°	1958.8	1497.6	950.1	855.7	821.2	817.8	807.4	778.7	744.2	722.3	722.3
32.5°	2030.1	1437.7	885.6	808.6	791.3	786.7	762.6	737.3	705.1	684.4	680.9
35°	2083.0	1382.5	843.1	768.3	760.3	751.1	730.4	702.8	693.6	689.0	692.4
37.5°	2142.8	1320.4	791.3	733.8	741.9	724.6	700.5	687.8	720.0	712.0	715.4
40°	2238.3	1276.7	740.7	713.1	721.2	701.6	670.6	666.0	706.2	677.5	670.6
42.5°	2413.1	1275.6	709.7	682.1	687.8	672.9	645.3	643.0	659.1	624.6	614.2
45°	2630.5	1315.8	686.7	659.1	654.5	652.2	643.0	632.6	618.8	573.9	562.4
47.5°	2890.4	1381.4	682.1	624.6	630.3	649.9	638.4	611.9	576.2	547.5	541.7
50°	3205.6	1517.1	670.6	599.3	609.6	640.7	631.5	594.7	562.4	544.0	540.6
52.5°	3554.1	1688.5	655.6	560.1	583.1	632.6	637.2	602.7	555.5	539.4	537.1
55°	3964.7	1941.5	638.4	517.6	552.1	624.6	637.2	579.7	546.3	546.3	544.0
57.5°	4775.6	2397.0	602.7	478.5	524.5	609.6	618.8	580.8	547.5	547.5	542.9
60°	5964.9	3107.8	534.8	448.6	498.0	588.9	605.0	563.6	534.8	541.7	540.6
62.5°	6895.4	3324.1	477.3	419.8	471.6	550.9	586.6	545.2	519.9	545.2	547.5
65°	7094.4	3105.5	418.7	388.8	434.8	514.1	560.1	518.7	498.0	547.5	549.8
66°	7023.1	2935.3	398.0	379.6	418.7	495.7	544.0	509.5	486.5	545.2	546.3
67.5°	6705.6	2680.0	375.0	360.0	396.8	469.3	525.6	496.9	468.1	538.3	527.9
70°	6015.5	2272.8	335.9	325.5	365.8	425.6	483.1	464.7	439.4	495.7	477.3
72.5°	4633.0	1816.2	294.4	295.6	330.1	380.7	440.5	427.9	406.0	434.8	423.3
75°	2821.4	1160.5	256.5	258.8	287.5	338.2	400.3	391.1	364.6	380.7	375.0
77.5°	1250.3	575.1	216.2	220.8	243.8	297.9	348.5	333.6	306.0	309.4	307.1
80°	485.4	272.6	176.0	181.7	196.7	238.1	288.7	274.9	250.7	246.1	243.8
82.5°	233.5	151.8	135.7	138.0	143.8	189.8	248.4	231.2	199.0	178.3	178.3
85°	117.3	94.3	95.5	87.4	95.5	128.8	167.9	140.3	116.2	103.5	105.8
87.5°	47.2	47.2	47.2	40.3	42.6	61.0	78.2	52.9	48.3	28.8	28.8
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)