

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: P480881

Luminaire Tested: **IFLD-S-SA2A-740-U-SL4**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480881
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2A-740-U-SL4
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens
Light Source: (32) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

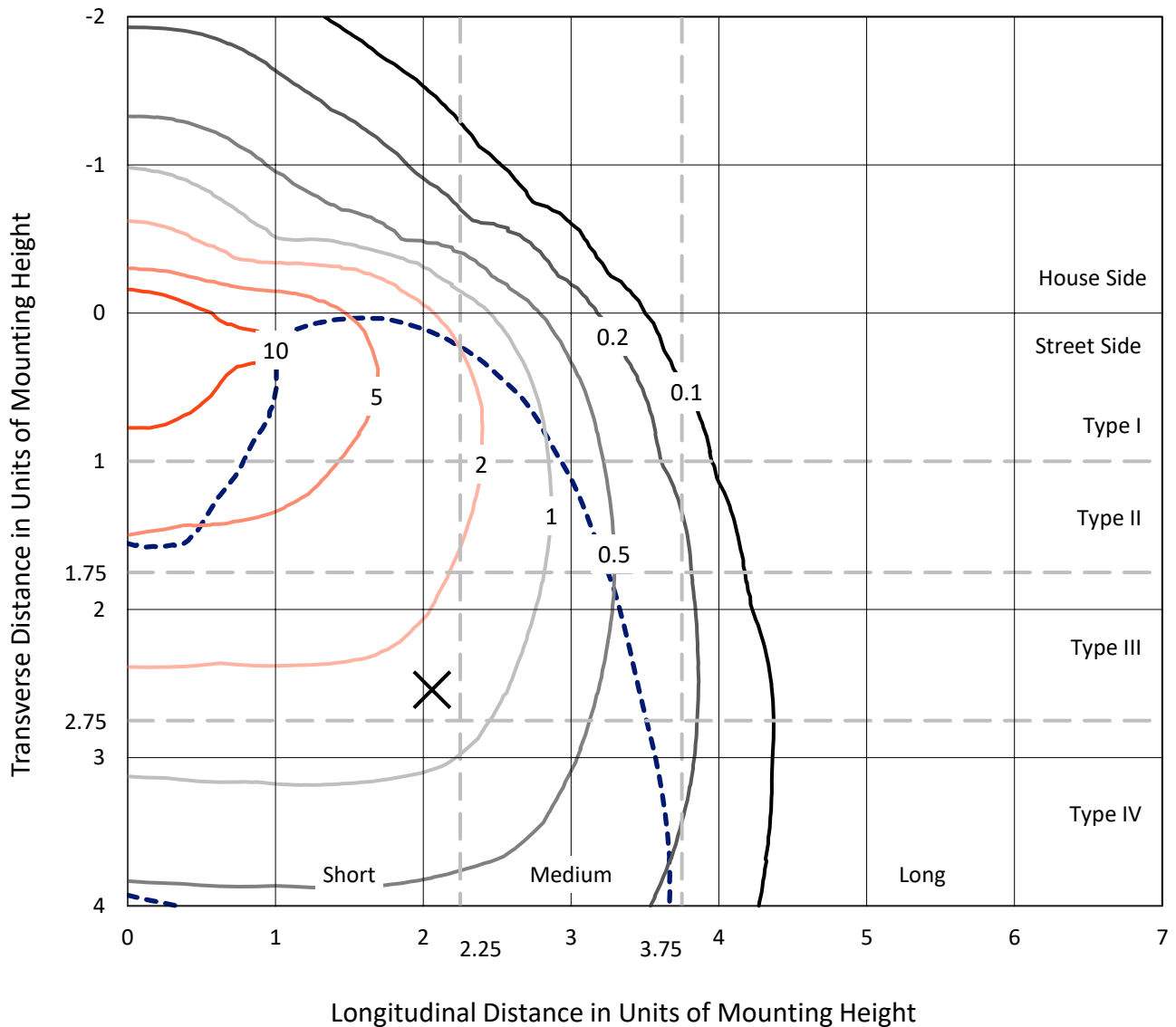
Lumens per Lamp: N/A
Luminaire Lumens: 8930.1 lumens
Efficiency: N/A
Efficacy: 140.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

Input Watts (W): 63.8
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

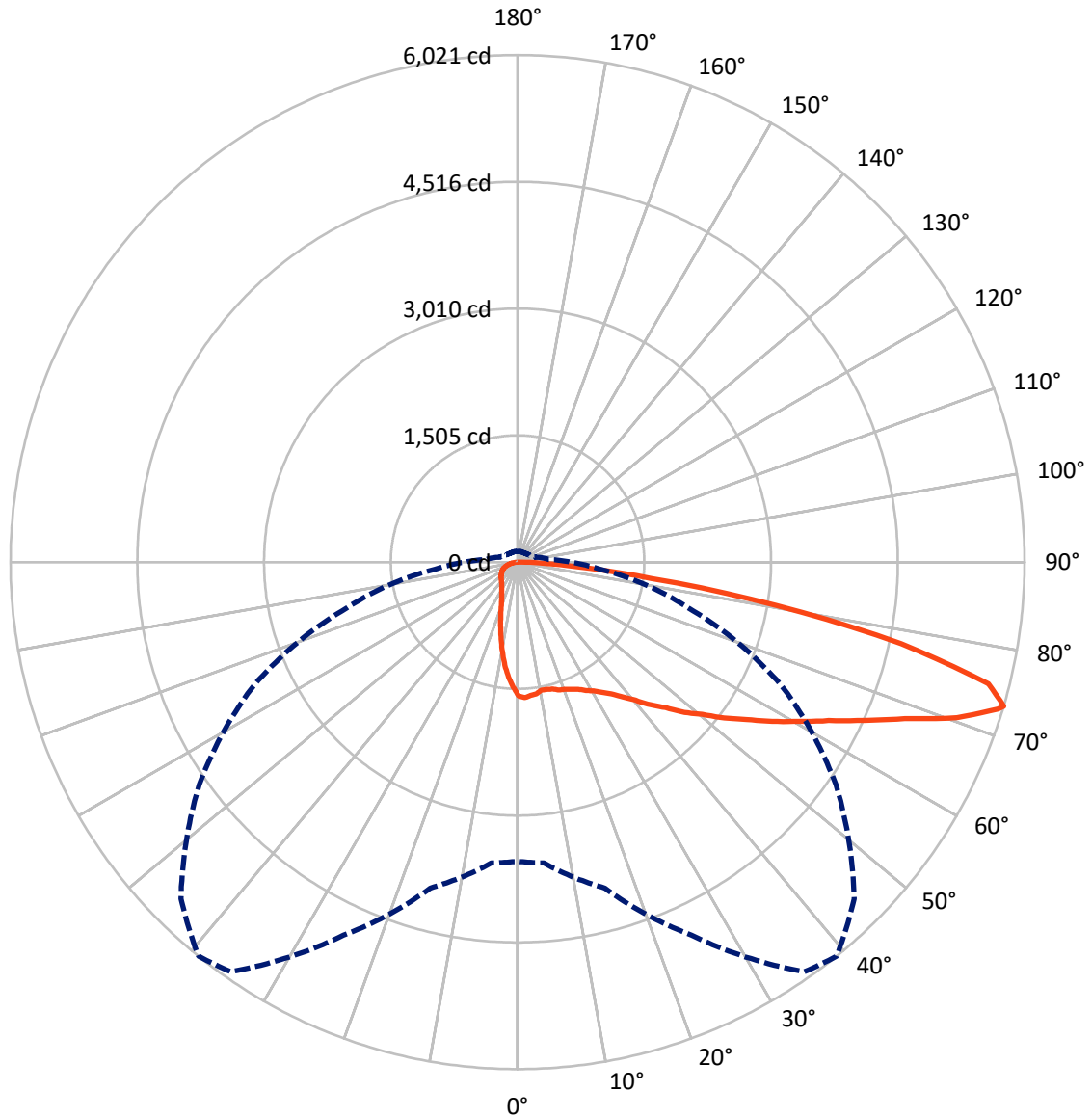
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 15.9 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1255.3	0.0	1255.3
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	7674.8	0.0	7674.8
	% Fixture	85.9	0.0	85.9
Total	Lumens	8930.1	0.0	8930.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	138.0	1.5
10°-20°	350.8	3.9
20°-30°	536.1	6.0
30°-40°	781.6	8.8
40°-50°	1181.1	13.2
50°-60°	1710.2	19.2
60°-70°	2172.9	24.3
70°-80°	1761.5	19.7
80°-90°	298.0	3.3
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°	8930.1	100.0
0°-180°	8930.1	100.0

Coefficient of Utilization



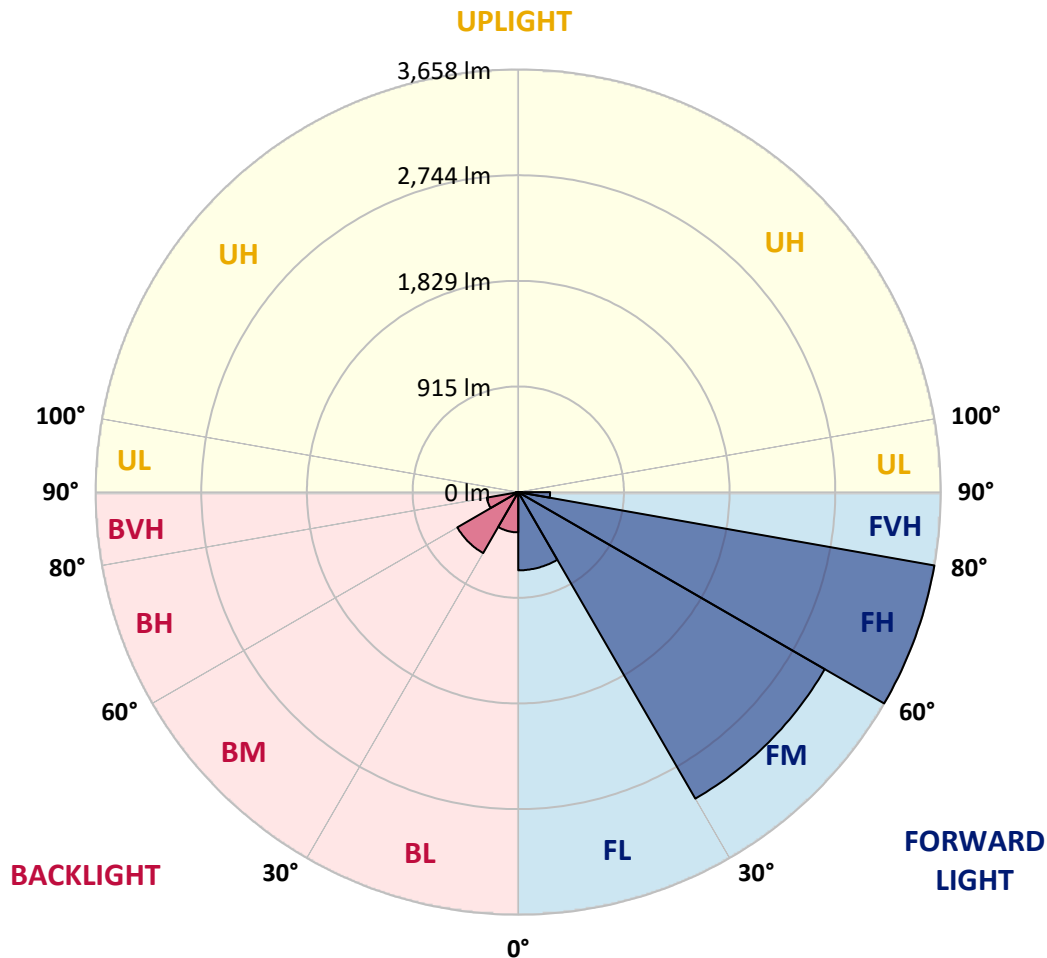
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	676.7	7.6			
FM (30°-60°)	3063.6	34.3			
FH (60°-80°)	3658.3	41.0			G2/5000
FVH (80°-90°)	276.2	3.1			G3/500
BL (0°-30°)	348.1	3.9	B1/500		
BM (30°-60°)	609.2	6.8	B1/1000		
BH (60°-80°)	276.1	3.1	B1/500		G1/500
BVH (80°-90°)	21.9	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	1589.6	1589.6	1589.6	1589.6	1589.6	1589.6	1589.6	1589.6	1589.6	1589.6	1589.6
2.5°	1627.6	1610.6	1613.6	1607.6	1613.6	1611.6	1608.6	1593.6	1608.6	1593.6	1589.6
5°	1605.6	1605.6	1615.6	1600.6	1602.6	1592.6	1602.6	1591.6	1581.6	1556.6	1549.7
7.5°	1598.6	1597.6	1598.6	1577.6	1587.6	1581.6	1571.6	1559.6	1539.7	1523.7	1500.7
10°	1550.7	1560.6	1549.7	1555.6	1563.6	1545.7	1544.7	1541.7	1532.7	1511.7	1497.7
12.5°	1524.7	1541.7	1547.7	1542.7	1549.7	1551.7	1545.7	1541.7	1530.7	1516.7	1476.7
15°	1535.7	1515.7	1532.7	1565.6	1558.6	1563.6	1564.6	1560.6	1555.6	1529.7	1503.7
17.5°	1538.7	1526.7	1562.6	1569.6	1578.6	1596.6	1584.6	1583.6	1564.6	1546.7	1508.7
20°	1545.7	1540.7	1569.6	1606.6	1607.6	1610.6	1616.6	1601.6	1591.6	1560.6	1502.7
22.5°	1571.6	1588.6	1615.6	1631.6	1640.6	1642.6	1642.6	1612.6	1601.6	1576.6	1530.7
25°	1649.6	1631.6	1669.5	1688.5	1675.5	1672.5	1665.6	1638.6	1626.6	1604.6	1543.7
27.5°	1706.5	1705.5	1727.5	1753.5	1718.5	1725.5	1700.5	1692.5	1665.6	1653.6	1566.6
30°	1784.5	1806.4	1805.4	1813.4	1767.5	1775.5	1743.5	1728.5	1713.5	1720.5	1634.6
32.5°	1884.4	1876.4	1889.4	1883.4	1837.4	1844.4	1806.4	1783.5	1788.4	1809.4	1727.5
35°	1948.3	1940.3	1945.3	1945.3	1931.3	1923.3	1907.3	1877.4	1901.3	1940.3	1831.4
37.5°	2017.2	2027.2	2056.2	2050.2	2032.2	2032.2	2030.2	2009.3	2040.2	2136.1	1997.3
40°	2078.2	2105.2	2123.2	2135.1	2156.1	2156.1	2173.1	2161.1	2217.1	2370.9	2200.1
42.5°	2142.1	2143.1	2241.1	2250.0	2297.0	2317.0	2330.0	2340.0	2444.9	2616.7	2416.9
45°	2224.1	2229.1	2315.0	2383.9	2456.9	2463.9	2512.8	2545.8	2674.7	2885.5	2652.7
47.5°	2332.0	2326.0	2417.9	2527.8	2618.7	2666.7	2725.6	2761.6	2920.5	3177.2	2910.5
50°	2473.9	2455.9	2508.8	2681.7	2788.6	2841.5	2946.4	3006.4	3192.2	3456.0	3087.3
52.5°	2646.7	2616.7	2658.7	2847.5	2967.4	3074.3	3174.2	3241.2	3435.0	3671.8	3218.2
55°	2829.5	2767.6	2779.6	3023.4	3196.2	3297.1	3434.0	3504.0	3701.8	3865.6	3349.1
57.5°	3010.4	2971.4	2947.4	3192.2	3469.0	3565.9	3691.8	3782.7	3950.6	4037.5	3460.0
60°	3162.3	3152.3	3113.3	3454.0	3757.7	3840.7	3972.5	4028.5	4155.4	4196.4	3462.0
62.5°	3287.1	3253.2	3315.1	3664.8	4051.5	4145.4	4290.3	4295.3	4385.2	4295.3	3360.1
65°	3385.1	3387.1	3486.0	3919.6	4391.2	4530.1	4647.0	4634.0	4576.0	4236.3	3119.3
67.5°	3474.0	3511.9	3656.8	4199.4	4827.8	4958.7	5088.6	4916.7	4628.0	3960.6	2648.7
70°	3543.9	3581.9	3887.6	4540.1	5342.4	5534.2	5563.2	5028.6	4389.2	3355.1	1998.3
72.5°	3535.9	3604.9	4018.5	4811.8	5799.0	5964.8	5731.0	4713.9	3656.8	2339.0	1166.0
73°	3552.9	3586.9	4007.5	4887.8	5937.8	6020.8	5653.1	4615.0	3449.0	2098.2	986.1
75°	3225.2	3340.1	3808.7	4763.9	5789.0	5774.0	5205.5	3845.7	2451.9	1102.0	477.6
77.5°	2385.9	2458.9	3001.4	3917.6	4751.9	4656.0	3926.6	2457.9	1164.0	408.6	257.8
80°	1166.0	1222.9	1590.6	2262.0	3107.3	3115.3	2436.9	1278.9	498.6	230.8	175.8
82.5°	582.5	616.5	764.3	994.1	1528.7	1601.6	1235.9	727.4	308.7	130.9	99.9
85°	380.7	404.6	470.6	486.6	648.4	684.4	575.5	567.5	200.8	70.9	80.9
87.5°	252.8	256.8	288.7	245.8	259.8	249.8	277.8	357.7	58.9	30.0	22.0
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°	1589.6	1589.6	1589.6	1589.6	1589.6	1589.6	1589.6	1589.6	1589.6	1589.6	1589.6
2.5°	1584.6	1570.6	1555.6	1534.7	1519.7	1496.7	1475.7	1466.7	1464.7	1465.7	1455.7
5°	1543.7	1523.7	1493.7	1450.7	1425.8	1387.8	1355.8	1338.8	1320.9	1323.9	1315.9
7.5°	1486.7	1464.7	1418.8	1368.8	1306.9	1252.9	1222.9	1181.0	1157.0	1139.0	1149.0
10°	1468.7	1430.8	1361.8	1292.9	1197.0	1126.0	1057.1	1009.1	976.2	944.2	958.2
12.5°	1459.7	1421.8	1325.8	1223.9	1100.0	992.1	895.2	836.3	789.3	761.3	772.3
15°	1451.7	1404.8	1291.9	1148.0	1009.1	867.2	758.3	680.4	635.4	608.5	611.5
17.5°	1462.7	1395.8	1241.9	1074.1	909.2	757.3	636.4	555.5	509.6	492.6	488.6
20°	1451.7	1385.8	1193.0	1000.1	809.3	652.4	536.5	469.6	437.6	423.6	420.6
22.5°	1455.7	1361.8	1142.0	918.2	716.4	564.5	469.6	418.6	393.7	386.7	388.7
25°	1474.7	1347.8	1091.1	828.3	624.5	499.6	426.6	387.7	369.7	362.7	364.7
27.5°	1488.7	1359.8	1045.1	743.4	546.5	441.6	390.7	364.7	352.7	347.7	346.7
30°	1523.7	1366.8	1000.1	667.4	482.6	403.6	365.7	344.7	336.7	333.7	332.7
32.5°	1575.6	1379.8	948.2	597.5	435.6	367.7	345.7	327.7	325.7	322.7	323.7
35°	1660.6	1424.8	890.2	537.5	390.7	343.7	324.7	312.7	312.7	312.7	315.7
37.5°	1782.5	1487.7	838.3	480.6	361.7	322.7	306.7	302.7	300.7	303.7	305.7
40°	1939.3	1563.6	796.3	435.6	336.7	308.7	294.7	292.7	291.7	290.7	292.7
42.5°	2111.2	1660.6	760.3	400.7	318.7	293.7	283.8	281.8	277.8	279.8	282.8
45°	2282.0	1780.5	728.4	372.7	306.7	285.8	271.8	270.8	268.8	267.8	272.8
47.5°	2471.9	1898.4	718.4	355.7	297.7	273.8	263.8	262.8	256.8	255.8	259.8
50°	2619.7	1985.3	729.4	347.7	284.8	264.8	257.8	252.8	247.8	242.8	242.8
52.5°	2721.6	2045.2	737.4	341.7	277.8	252.8	243.8	241.8	236.8	231.8	229.8
55°	2813.6	2081.2	739.4	342.7	270.8	238.8	232.8	231.8	228.8	220.8	218.8
57.5°	2844.5	2066.2	699.4	333.7	266.8	229.8	221.8	223.8	219.8	212.8	211.8
60°	2841.5	1962.3	608.5	321.7	257.8	219.8	209.8	215.8	215.8	207.8	206.8
62.5°	2668.7	1722.5	497.6	298.7	247.8	209.8	198.8	207.8	210.8	205.8	204.8
65°	2310.0	1402.8	415.6	275.8	232.8	198.8	187.8	197.8	202.8	200.8	199.8
67.5°	1911.3	1073.1	345.7	245.8	213.8	183.8	174.8	181.8	184.8	185.8	186.8
70°	1350.8	714.4	288.7	212.8	187.8	167.9	157.9	158.9	157.9	160.9	160.9
72.5°	734.4	411.6	234.8	180.8	161.9	145.9	138.9	133.9	133.9	132.9	132.9
73°	628.5	369.7	223.8	175.8	154.9	141.9	133.9	129.9	129.9	128.9	127.9
75°	352.7	270.8	191.8	150.9	133.9	123.9	117.9	111.9	110.9	110.9	110.9
77.5°	231.8	210.8	152.9	120.9	107.9	98.9	96.9	90.9	90.9	90.9	89.9
80°	173.8	165.9	117.9	91.9	82.9	75.9	73.9	69.9	68.9	64.9	65.9
82.5°	115.9	130.9	85.9	64.9	56.0	52.0	52.0	51.0	48.0	43.0	43.0
85°	91.9	106.9	61.9	40.0	33.0	28.0	29.0	28.0	27.0	22.0	21.0
87.5°	17.0	43.0	18.0	11.0	8.0	5.0	5.0	3.0	2.0	0.0	0.0
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)