

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: P484704

Luminaire Tested: **IFLD-S-SA2B-730-U-SL4-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P484704  
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-SL4-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens with House Side Shield  
Light Source: (32) 3000K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

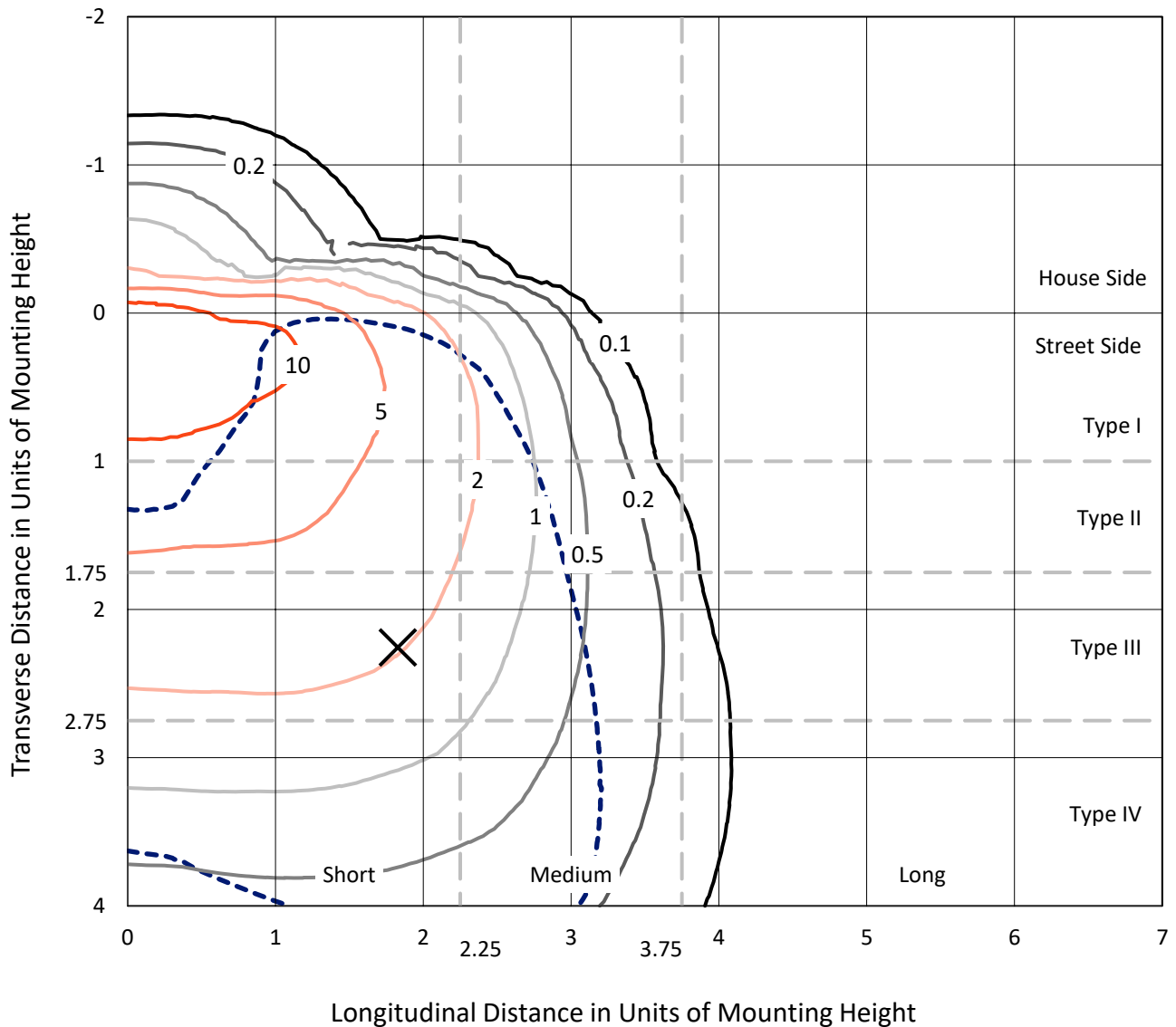
Lumens per Lamp: N/A  
Luminaire Lumens: 8589.2 lumens  
Efficiency: N/A  
Efficacy: 104.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2

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

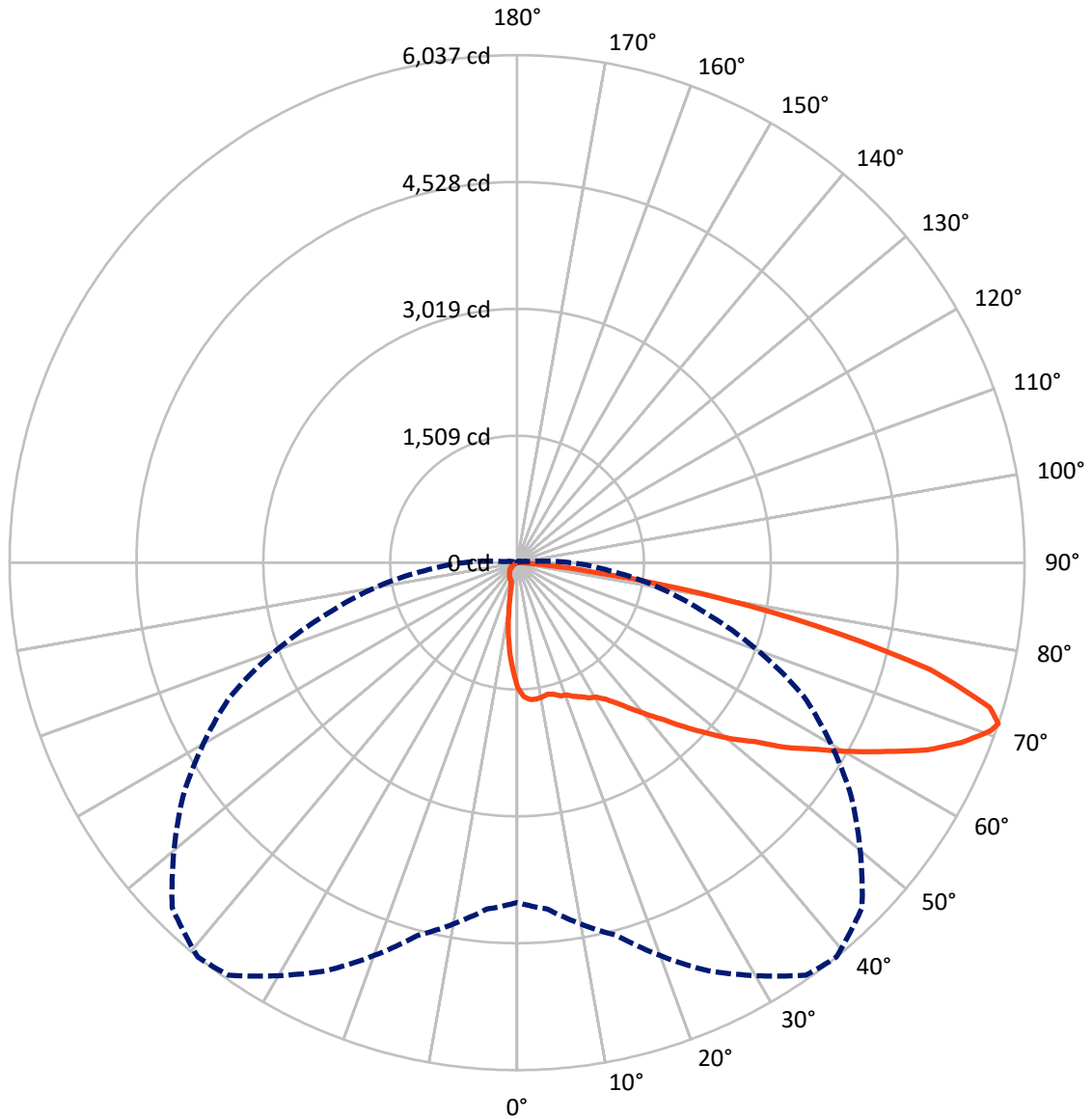
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 16.2 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral      - - - Horizontal Cone Through 71-Deg Vertical

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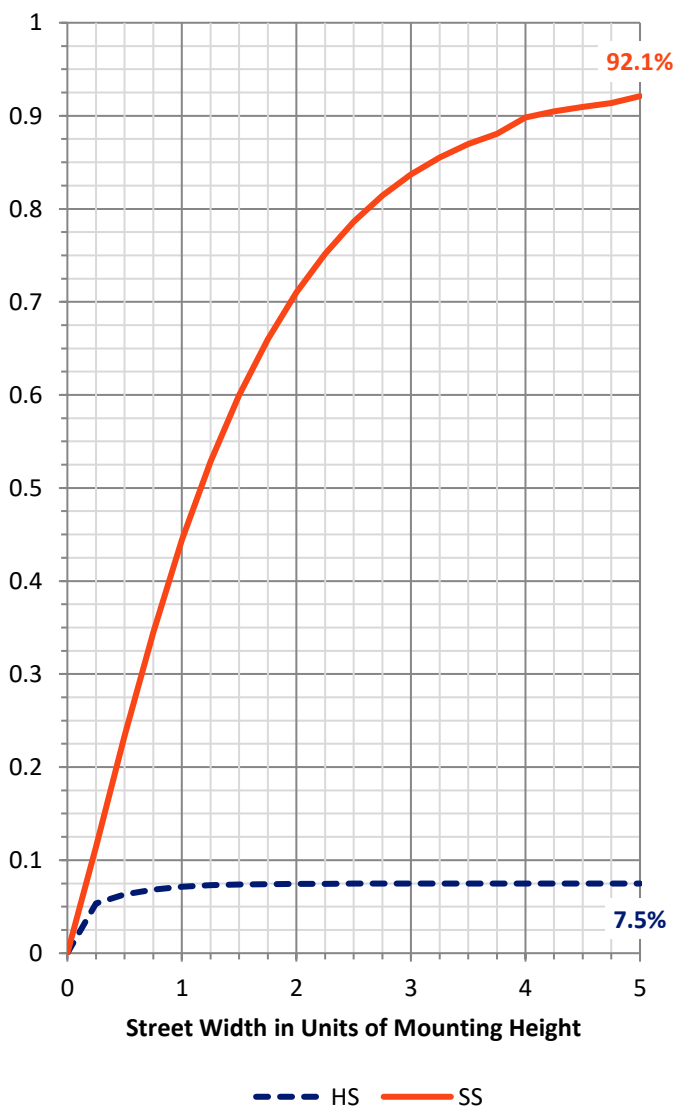
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	646.6	0.0	646.6
	% Fixture	7.5	0.0	7.5
<b>Street Side</b>	Lumens	7942.5	0.0	7942.5
	% Fixture	92.5	0.0	92.5
<b>Total</b>	Lumens	8589.2	0.0	8589.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	125.0	1.5
10°-20°	307.7	3.6
20°-30°	493.9	5.7
30°-40°	756.0	8.8
40°-50°	1213.5	14.1
50°-60°	1782.5	20.8
60°-70°	2245.0	26.1
70°-80°	1498.2	17.4
80°-90°	167.4	1.9
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°	8589.2	100.0
0°-180°	8589.2	100.0

**Coefficient of Utilization**



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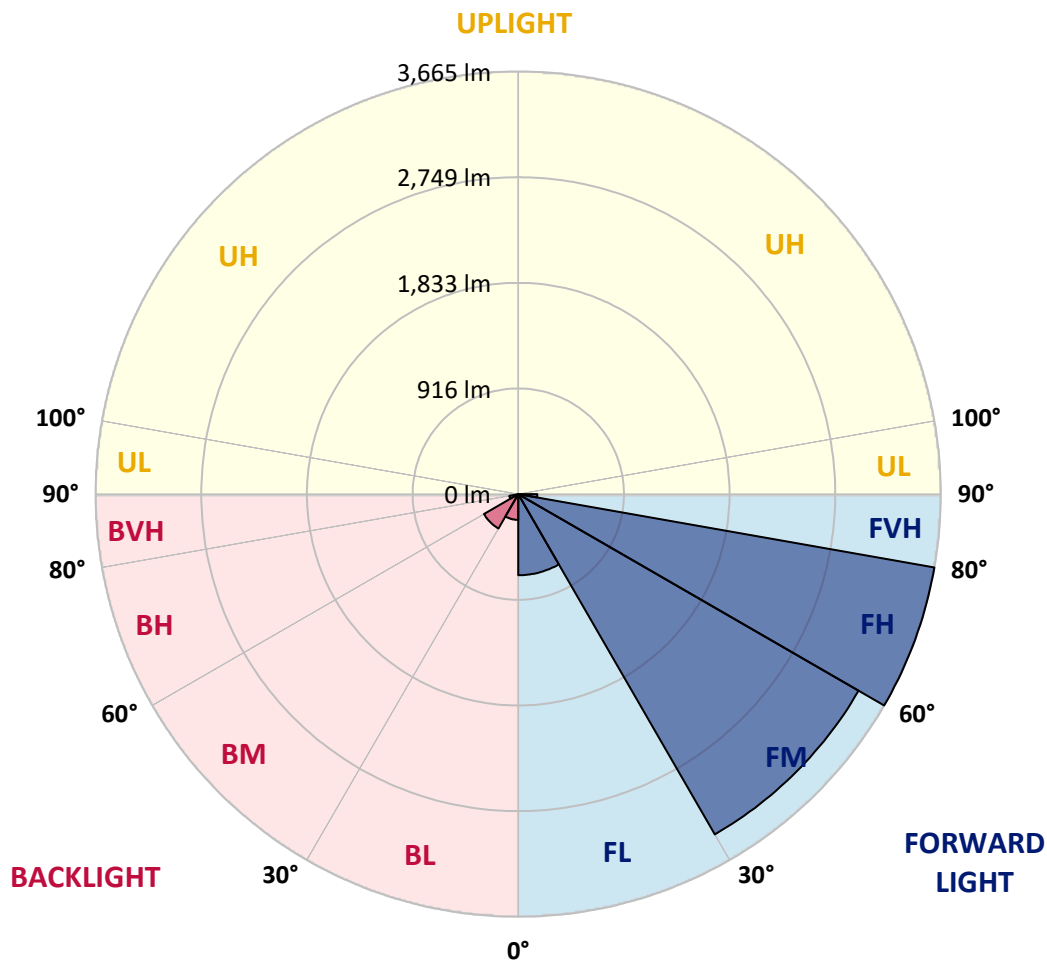
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	703.3	8.2			
FM (30°-60°)	3408.3	39.7			
FH (60°-80°)	3665.4	42.7			G2/5000
FVH (80°-90°)	165.6	1.9			G2/225
BL (0°-30°)	223.2	2.6	B1/500		
BM (30°-60°)	343.7	4.0	B1/1000		
BH (60°-80°)	77.8	0.9	B0/110		G0/110
BVH (80°-90°)	1.8	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	1495.0	1495.0	1495.0	1495.0	1495.0	1495.0	1495.0	1495.0	1495.0	1495.0	1495.0
2.5°	1611.0	1626.8	1611.0	1604.3	1597.5	1598.6	1580.6	1584.0	1562.6	1534.4	1511.9
5°	1661.7	1683.1	1666.2	1658.4	1657.2	1635.8	1626.8	1605.4	1579.5	1535.6	1508.5
7.5°	1657.2	1652.7	1660.6	1653.8	1639.2	1639.2	1629.1	1598.6	1572.7	1523.2	1477.0
10°	1623.4	1636.9	1630.2	1622.3	1625.7	1626.8	1607.7	1586.3	1578.4	1528.8	1453.3
12.5°	1620.1	1597.5	1622.3	1623.4	1608.8	1607.7	1605.4	1599.8	1575.0	1529.9	1458.9
15°	1608.8	1599.8	1624.6	1625.7	1629.1	1625.7	1629.1	1624.6	1599.8	1573.9	1483.7
17.5°	1617.8	1607.7	1642.6	1659.5	1651.6	1667.4	1661.7	1641.5	1620.1	1589.6	1507.4
20°	1620.1	1634.7	1673.0	1679.8	1704.5	1678.6	1677.5	1656.1	1642.6	1609.9	1522.0
22.5°	1661.7	1668.5	1715.8	1730.5	1731.6	1728.2	1700.0	1675.3	1669.6	1629.1	1525.4
25°	1724.8	1748.5	1769.9	1778.9	1782.3	1766.5	1737.2	1705.7	1692.2	1666.2	1560.3
27.5°	1836.4	1821.7	1840.9	1854.4	1816.1	1821.7	1784.5	1757.5	1738.3	1715.8	1600.9
30°	1935.5	1922.0	1923.1	1920.9	1888.2	1857.8	1847.6	1800.3	1776.6	1785.7	1664.0
32.5°	2024.5	1995.2	2020.0	2008.7	1947.9	1938.9	1931.0	1871.3	1875.8	1917.5	1758.6
35°	2106.7	2096.6	2116.9	2096.6	2056.0	2053.8	2045.9	1994.1	2018.9	2078.6	1920.9
37.5°	2182.2	2185.6	2210.4	2200.2	2203.6	2205.9	2201.4	2146.2	2217.1	2351.2	2110.1
40°	2252.1	2247.6	2308.4	2339.9	2346.7	2371.5	2371.5	2358.0	2467.3	2618.2	2372.6
42.5°	2326.4	2337.7	2416.6	2469.5	2533.7	2555.1	2584.4	2591.2	2760.2	2932.5	2640.8
45°	2448.1	2428.9	2529.2	2654.3	2710.6	2786.1	2831.1	2869.5	3073.4	3310.0	2908.9
47.5°	2602.4	2564.1	2652.0	2833.4	2964.1	3026.0	3107.2	3157.9	3357.3	3601.7	3162.4
50°	2773.7	2734.3	2777.1	3027.2	3179.3	3291.9	3395.6	3459.8	3700.9	3928.5	3347.1
52.5°	2967.5	2931.4	2938.2	3228.8	3453.0	3535.3	3671.6	3767.4	4007.3	4125.6	3412.5
55°	3173.6	3164.6	3143.2	3426.0	3693.0	3877.8	3960.0	4074.9	4321.6	4232.6	3483.4
57.5°	3380.9	3352.8	3383.2	3687.4	4078.3	4188.7	4302.5	4371.2	4496.3	4326.1	3456.4
60°	3575.8	3578.1	3620.9	3971.3	4406.1	4562.7	4665.3	4623.6	4675.4	4366.7	3394.4
62.5°	3740.3	3735.8	3844.0	4290.1	4839.9	4945.8	5022.4	4836.5	4758.8	4406.1	3286.3
65°	3887.9	3938.6	4108.7	4669.8	5247.7	5369.4	5323.2	5038.2	4839.9	4290.1	2982.1
67.5°	3999.4	4074.9	4370.1	5026.9	5621.7	5707.4	5643.1	5191.4	4744.1	3834.9	2428.9
70°	4064.8	4141.4	4557.1	5324.3	5920.3	5982.2	5831.3	5073.1	4185.3	2777.1	1515.3
71°	4044.5	4138.0	4593.1	5355.9	5991.3	6037.4	5803.1	4854.5	3764.0	2325.3	1105.2
72.5°	3860.9	3948.7	4443.3	5333.3	5905.6	5877.5	5583.4	4329.5	2963.0	1482.6	571.2
75°	2836.8	2931.4	3813.5	4613.4	5271.4	5077.6	4518.8	3038.4	1545.7	454.0	166.7
77.5°	1412.8	1428.5	2367.0	3349.4	3866.5	3673.8	3028.3	1694.4	577.9	134.1	83.4
80°	651.2	655.7	887.8	1735.0	2337.7	2200.2	1696.7	835.9	261.4	71.0	65.3
82.5°	443.9	450.6	535.1	718.8	1015.1	856.2	687.2	535.1	149.8	42.8	64.2
85°	81.1	74.4	299.7	380.8	392.1	265.9	237.7	463.0	56.3	24.8	56.3
87.5°	0.0	1.1	41.7	155.5	139.7	62.0	81.1	112.7	5.6	7.9	10.1
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°	1495.0	1495.0	1495.0	1495.0	1495.0	1495.0	1495.0	1495.0	1495.0	1495.0	1495.0
2.5°	1492.7	1480.4	1438.7	1392.5	1350.8	1318.1	1276.4	1257.3	1226.9	1210.0	1208.8
5°	1471.3	1437.5	1365.4	1287.7	1201.0	1128.9	1048.9	1003.8	952.0	936.2	932.8
7.5°	1435.3	1386.8	1280.9	1171.7	1038.7	911.4	813.4	708.6	644.4	617.4	607.2
10°	1412.8	1354.2	1210.0	1046.6	860.7	681.6	544.1	432.6	374.0	345.9	339.1
12.5°	1412.8	1349.7	1152.5	927.2	680.5	466.4	336.9	272.6	253.5	246.7	246.7
15°	1409.4	1340.7	1097.3	804.4	503.6	313.2	251.2	237.7	235.5	234.3	233.2
17.5°	1426.3	1324.9	1041.0	672.6	356.0	246.7	231.0	228.7	226.4	226.4	224.2
20°	1438.7	1315.9	973.4	532.9	265.9	228.7	221.9	218.6	217.4	216.3	218.6
22.5°	1428.5	1302.3	890.0	398.8	232.1	217.4	212.9	209.5	207.3	207.3	208.4
25°	1447.7	1290.0	806.6	300.8	217.4	207.3	202.8	200.5	199.4	198.3	196.0
27.5°	1473.6	1295.6	707.5	242.2	205.0	197.2	192.6	190.4	189.3	187.0	189.3
30°	1505.1	1294.5	598.2	211.8	193.8	185.9	181.4	180.3	178.0	176.9	178.0
32.5°	1559.2	1323.8	485.6	196.0	181.4	174.6	170.1	169.0	167.9	166.7	165.6
35°	1675.3	1359.8	379.7	183.6	170.1	162.2	158.9	156.6	155.5	154.3	153.2
37.5°	1818.3	1439.8	289.5	172.4	158.9	151.0	147.6	146.5	142.0	140.8	139.7
40°	1997.5	1525.4	223.1	160.0	148.7	140.8	137.4	134.1	128.4	126.2	123.9
42.5°	2220.5	1608.8	183.6	148.7	137.4	131.8	126.2	120.5	116.0	111.5	109.3
45°	2443.6	1705.7	161.1	138.6	128.4	121.7	117.2	109.3	101.4	94.6	93.5
47.5°	2629.5	1740.6	147.6	127.3	119.4	113.8	107.0	96.9	85.6	78.9	77.7
50°	2768.1	1720.3	134.1	116.0	109.3	103.6	94.6	82.2	71.0	64.2	62.0
52.5°	2795.1	1631.3	121.7	107.0	99.1	92.4	82.2	68.7	56.3	49.6	48.4
55°	2775.9	1483.7	111.5	99.1	90.1	80.0	68.7	55.2	43.9	37.2	36.1
57.5°	2736.5	1309.1	100.3	89.0	78.9	68.7	56.3	45.1	32.7	25.9	25.9
60°	2602.4	1071.4	89.0	77.7	67.6	58.6	46.2	32.7	22.5	16.9	15.8
62.5°	2415.4	823.5	77.7	66.5	58.6	48.4	36.1	23.7	13.5	9.0	9.0
65°	2074.1	576.8	65.3	55.2	48.4	39.4	27.0	14.6	7.9	3.4	3.4
67.5°	1576.1	357.1	54.1	46.2	41.7	31.5	19.2	9.0	3.4	1.1	0.0
70°	904.7	185.9	42.8	37.2	32.7	23.7	13.5	4.5	2.3	0.0	0.0
71°	632.0	137.4	38.3	32.7	29.3	21.4	11.3	3.4	1.1	0.0	0.0
72.5°	316.6	91.3	32.7	27.0	23.7	16.9	9.0	3.4	1.1	0.0	0.0
75°	112.7	58.6	22.5	18.0	16.9	12.4	5.6	2.3	1.1	0.0	0.0
77.5°	77.7	47.3	15.8	11.3	11.3	7.9	3.4	1.1	1.1	0.0	0.0
80°	71.0	25.9	10.1	6.8	5.6	4.5	2.3	1.1	0.0	0.0	0.0
82.5°	71.0	19.2	5.6	4.5	3.4	2.3	1.1	0.0	0.0	0.0	0.0
85°	49.6	10.1	3.4	3.4	2.3	1.1	0.0	0.0	0.0	0.0	0.0
87.5°	7.9	3.4	2.3	1.1	1.1	0.0	0.0	0.0	0.0	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)