

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: P480803

Luminaire Tested: **IFLD-S-SA2A-730-U-SL4**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480803
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2A-730-U-SL4
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens
Light Source: (32) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

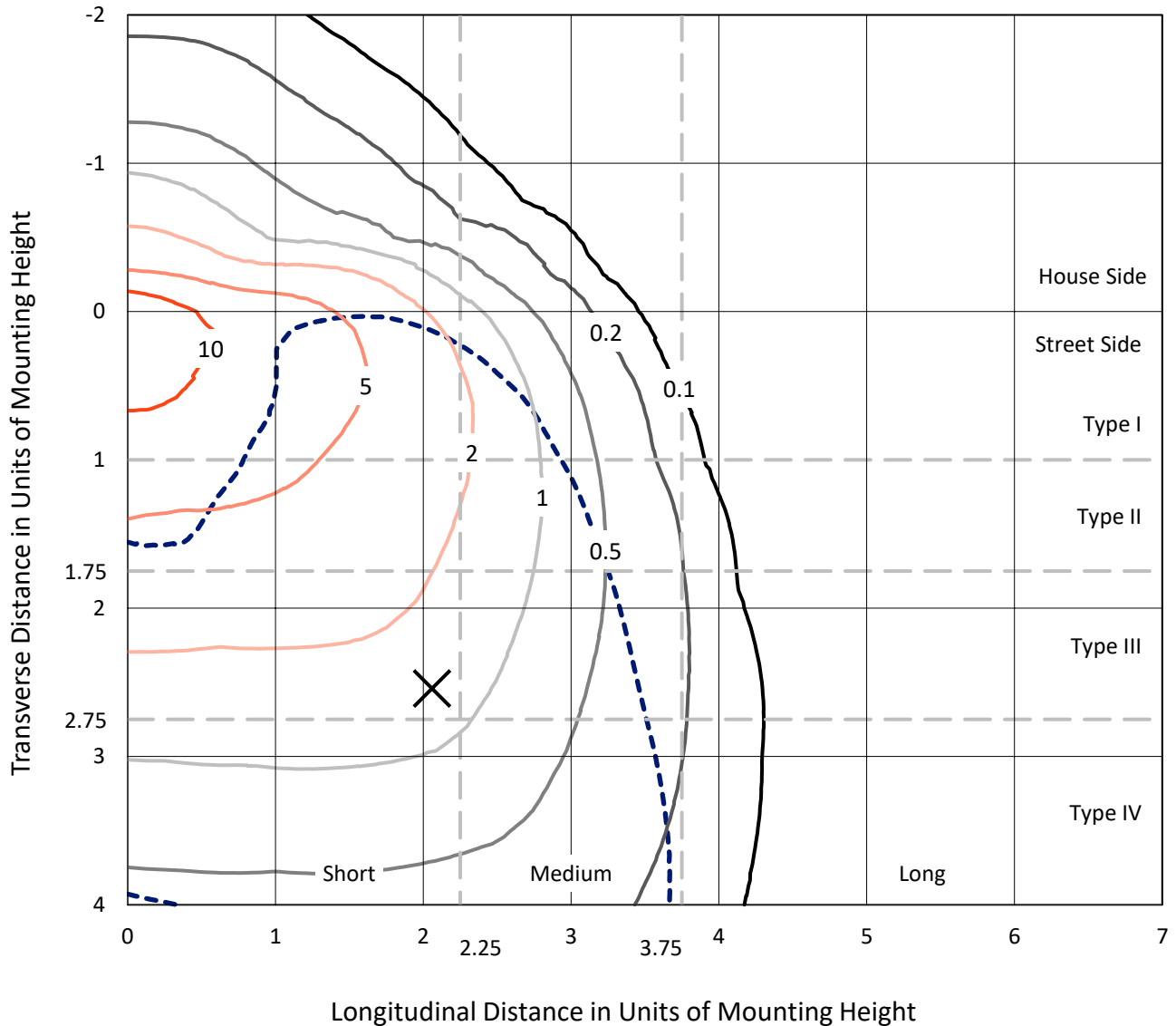
Lumens per Lamp: N/A
Luminaire Lumens: 8131.8 lumens
Efficiency: N/A
Efficacy: 127.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

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

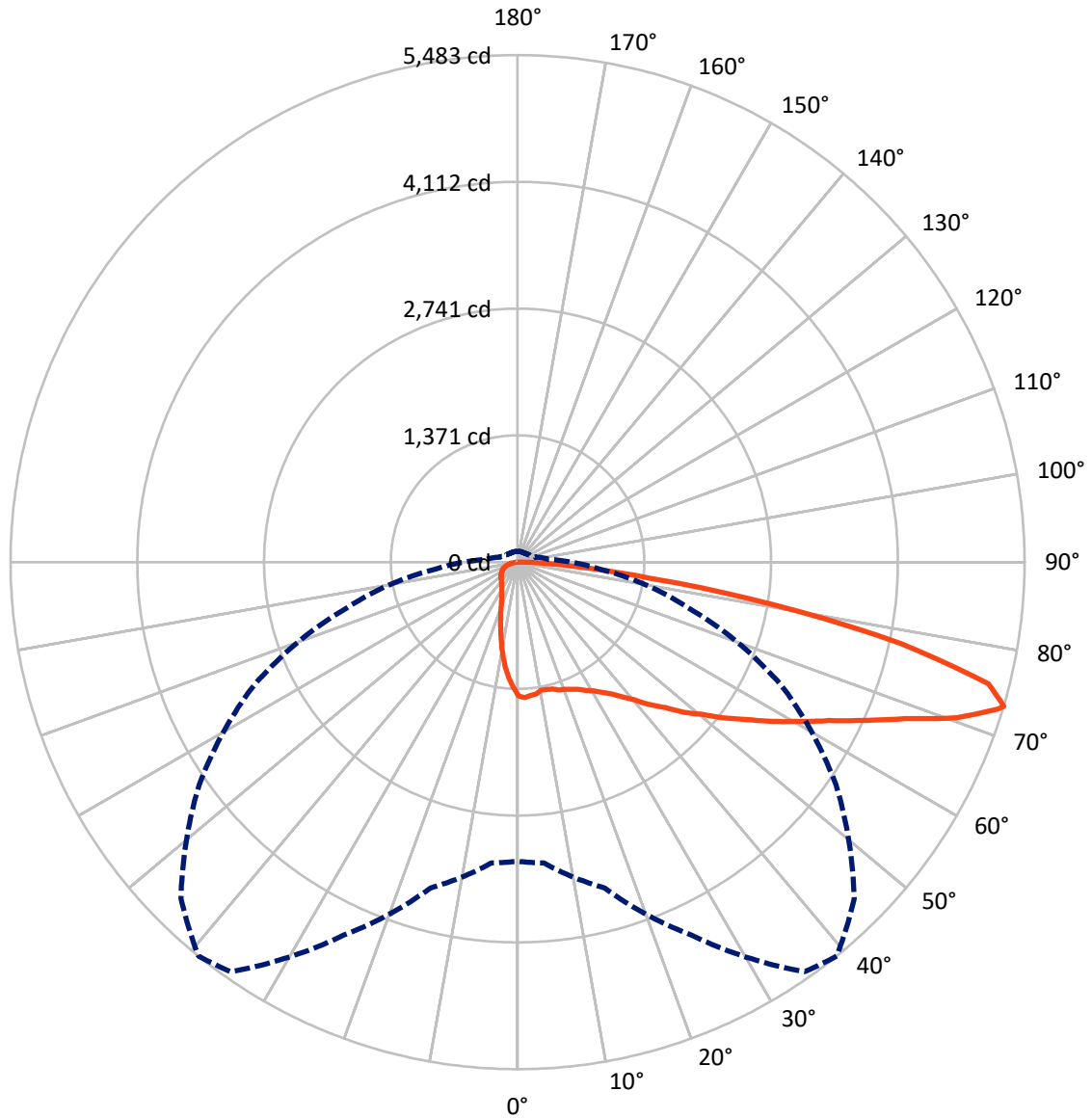
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 14.5 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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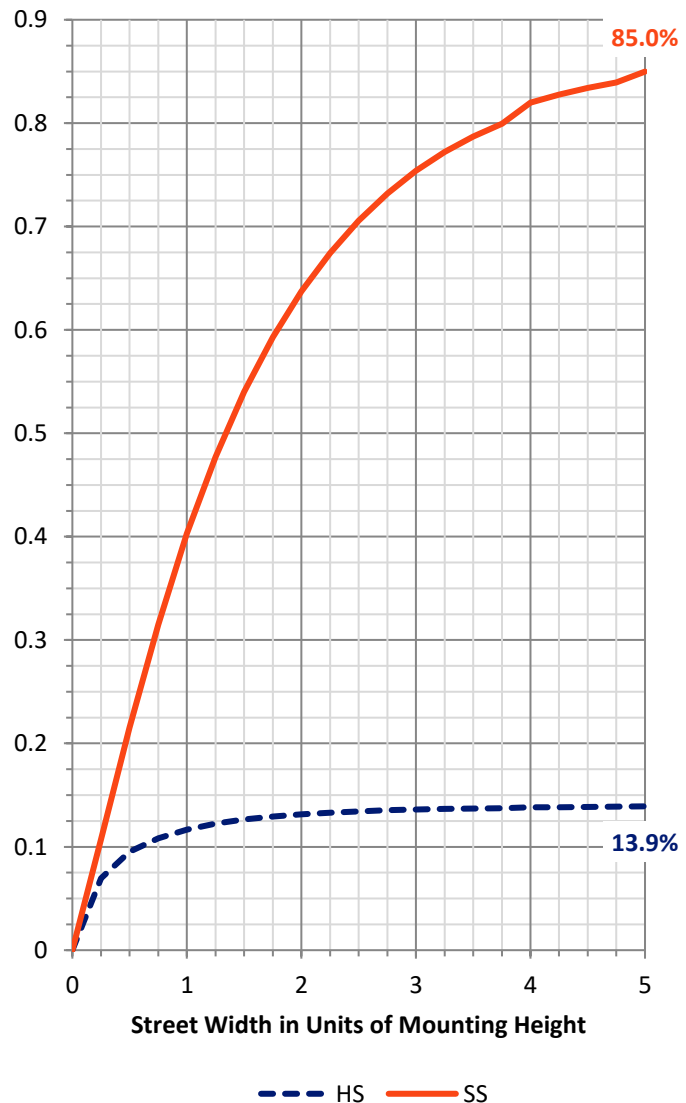
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1143.1	0.0	1143.1
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	6988.7	0.0	6988.7
	% Fixture	85.9	0.0	85.9
Total	Lumens	8131.8	0.0	8131.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	125.7	1.5
10°-20°	319.4	3.9
20°-30°	488.1	6.0
30°-40°	711.7	8.8
40°-50°	1075.5	13.2
50°-60°	1557.3	19.2
60°-70°	1978.7	24.3
70°-80°	1604.0	19.7
80°-90°	271.4	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°	8131.8	100.0
0°-180°	8131.8	100.0

Coefficient of Utilization



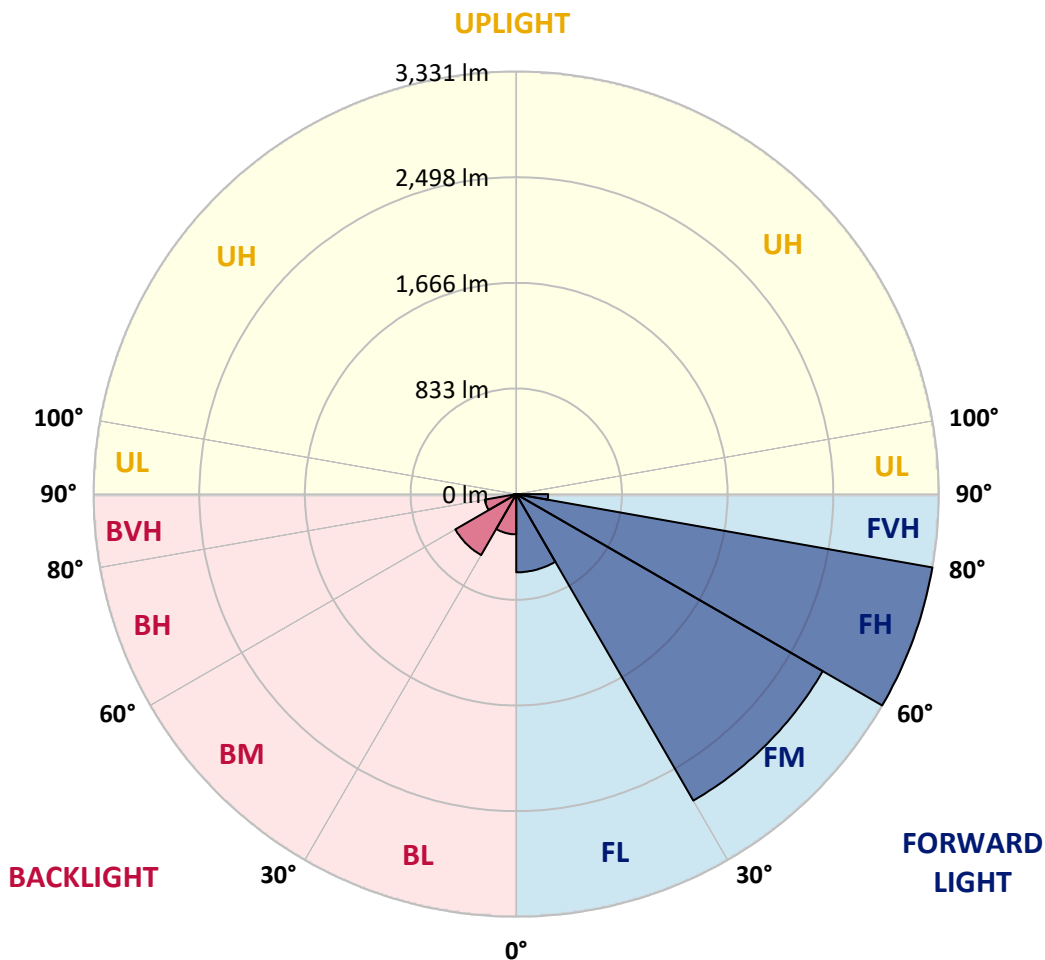
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	616.2	7.6			
FM (30°-60°)	2789.7	34.3			
FH (60°-80°)	3331.3	41.0			G2/5000
FVH (80°-90°)	251.5	3.1			G3/500
BL (0°-30°)	317.0	3.9	B1/500		
BM (30°-60°)	554.8	6.8	B1/1000		
BH (60°-80°)	251.4	3.1	B1/500		G1/500
BVH (80°-90°)	19.9	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°	1447.5	1447.5	1447.5	1447.5	1447.5	1447.5	1447.5	1447.5	1447.5	1447.5	1447.5
2.5°	1482.1	1466.6	1469.3	1463.9	1469.3	1467.5	1464.8	1451.1	1464.8	1451.1	1447.5
5°	1462.1	1462.1	1471.2	1457.5	1459.3	1450.2	1459.3	1449.3	1440.2	1417.5	1411.1
7.5°	1455.7	1454.8	1455.7	1436.6	1445.7	1440.2	1431.1	1420.2	1402.0	1387.5	1366.5
10°	1412.0	1421.1	1411.1	1416.6	1423.9	1407.5	1406.6	1403.8	1395.6	1376.5	1363.8
12.5°	1388.4	1403.8	1409.3	1404.7	1411.1	1412.9	1407.5	1403.8	1393.8	1381.1	1344.7
15°	1398.4	1380.2	1395.6	1425.7	1419.3	1423.9	1424.8	1421.1	1416.6	1392.9	1369.3
17.5°	1401.1	1390.2	1422.9	1429.3	1437.5	1453.9	1443.0	1442.0	1424.8	1408.4	1373.8
20°	1407.5	1402.9	1429.3	1463.0	1463.9	1466.6	1472.1	1458.4	1449.3	1421.1	1368.4
22.5°	1431.1	1446.6	1471.2	1485.7	1493.9	1495.7	1495.7	1468.4	1458.4	1435.7	1393.8
25°	1502.1	1485.7	1520.3	1537.6	1525.8	1523.0	1516.7	1492.1	1481.2	1461.2	1405.7
27.5°	1554.0	1553.0	1573.1	1596.7	1564.9	1571.2	1548.5	1541.2	1516.7	1505.7	1426.6
30°	1624.9	1644.9	1644.0	1651.3	1609.5	1616.7	1587.6	1574.0	1560.3	1566.7	1488.4
32.5°	1715.9	1708.6	1720.5	1715.0	1673.1	1679.5	1644.9	1624.0	1628.6	1647.7	1573.1
35°	1774.1	1766.9	1771.4	1771.4	1758.7	1751.4	1736.8	1709.5	1731.4	1766.9	1667.7
37.5°	1836.9	1846.0	1872.4	1866.9	1850.6	1850.6	1848.7	1829.6	1857.8	1945.2	1818.7
40°	1892.4	1917.0	1933.3	1944.3	1963.4	1963.4	1978.8	1967.9	2018.9	2159.0	2003.4
42.5°	1950.6	1951.5	2040.7	2048.9	2091.7	2109.8	2121.7	2130.8	2226.3	2382.8	2200.8
45°	2025.2	2029.8	2108.0	2170.8	2237.2	2243.6	2288.2	2318.2	2435.6	2627.5	2415.5
47.5°	2123.5	2118.0	2201.7	2301.8	2384.6	2428.3	2482.0	2514.7	2659.4	2893.2	2650.3
50°	2252.7	2236.3	2284.5	2441.9	2539.3	2587.5	2683.0	2737.6	2906.8	3147.0	2811.3
52.5°	2410.1	2382.8	2421.0	2593.0	2702.1	2799.5	2890.5	2951.4	3127.9	3343.6	2930.5
55°	2576.6	2520.2	2531.1	2753.1	2910.5	3002.4	3127.0	3190.7	3370.8	3520.1	3049.7
57.5°	2741.3	2705.8	2683.9	2906.8	3158.9	3247.1	3361.7	3444.5	3597.4	3676.5	3150.7
60°	2879.5	2870.4	2835.0	3145.2	3421.8	3497.3	3617.4	3668.4	3783.9	3821.2	3152.5
62.5°	2993.3	2962.3	3018.7	3337.2	3689.3	3774.8	3906.7	3911.3	3993.2	3911.3	3059.7
65°	3082.4	3084.3	3174.3	3569.2	3998.6	4125.1	4231.5	4219.7	4166.9	3857.6	2840.4
67.5°	3163.4	3198.0	3329.9	3823.9	4396.2	4515.4	4633.7	4477.2	4214.2	3606.5	2411.9
70°	3227.1	3261.7	3540.1	4134.2	4864.8	5039.4	5065.8	4579.1	3996.8	3055.1	1819.6
72.5°	3219.8	3282.6	3659.3	4381.6	5280.5	5431.6	5218.7	4292.5	3329.9	2129.9	1061.7
73°	3235.3	3266.2	3649.2	4450.8	5407.0	5482.5	5147.7	4202.4	3140.7	1910.6	898.0
75°	2936.9	3041.5	3468.2	4338.0	5271.4	5257.8	4740.1	3501.9	2232.7	1003.5	434.9
77.5°	2172.6	2239.0	2733.1	3567.4	4327.1	4239.7	3575.6	2238.1	1059.9	372.1	234.7
80°	1061.7	1113.6	1448.4	2059.8	2829.5	2836.8	2219.0	1164.6	454.0	210.2	160.1
82.5°	530.4	561.4	696.0	905.3	1392.0	1458.4	1125.4	662.3	281.1	119.2	91.0
85°	346.6	368.5	428.5	443.1	590.5	623.2	524.1	516.8	182.9	64.6	73.7
87.5°	230.2	233.8	262.9	223.8	236.6	227.5	252.9	325.7	53.7	27.3	20.0
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°	1447.5	1447.5	1447.5	1447.5	1447.5	1447.5	1447.5	1447.5	1447.5	1447.5	1447.5
2.5°	1443.0	1430.2	1416.6	1397.5	1383.8	1362.9	1343.8	1335.6	1333.8	1334.7	1325.6
5°	1405.7	1387.5	1360.2	1321.0	1298.3	1263.7	1234.6	1219.1	1202.8	1205.5	1198.2
7.5°	1353.8	1333.8	1291.9	1246.4	1190.0	1140.9	1113.6	1075.4	1053.6	1037.2	1046.3
10°	1337.4	1302.8	1240.1	1177.3	1090.0	1025.4	962.6	918.9	888.9	859.8	872.5
12.5°	1329.2	1294.7	1207.3	1114.5	1001.7	903.4	815.2	761.5	718.7	693.3	703.3
15°	1322.0	1279.2	1176.4	1045.4	918.9	789.7	690.5	619.6	578.6	554.1	556.8
17.5°	1332.0	1271.0	1130.9	978.0	827.9	689.6	579.5	505.9	464.0	448.5	444.9
20°	1322.0	1261.9	1086.3	910.7	736.9	594.1	488.6	427.6	398.5	385.8	383.0
22.5°	1325.6	1240.1	1039.9	836.1	652.3	514.0	427.6	381.2	358.5	352.1	353.9
25°	1342.9	1227.3	993.5	754.2	568.6	454.9	388.5	353.0	336.6	330.3	332.1
27.5°	1355.6	1238.3	951.7	676.9	497.7	402.1	355.7	332.1	321.2	316.6	315.7
30°	1387.5	1244.6	910.7	607.8	439.4	367.6	333.0	313.9	306.6	303.9	303.0
32.5°	1434.8	1256.4	863.4	544.1	396.7	334.8	314.8	298.4	296.6	293.9	294.8
35°	1512.1	1297.4	810.6	489.5	355.7	313.0	295.7	284.8	284.8	284.8	287.5
37.5°	1623.1	1354.7	763.3	437.6	329.4	293.9	279.3	275.7	273.9	276.6	278.4
40°	1765.9	1423.9	725.1	396.7	306.6	281.1	268.4	266.6	265.7	264.8	266.6
42.5°	1922.4	1512.1	692.4	364.8	290.2	267.5	258.4	256.6	252.9	254.7	257.5
45°	2078.0	1621.3	663.3	339.4	279.3	260.2	247.5	246.6	244.7	243.8	248.4
47.5°	2250.9	1728.6	654.2	323.9	271.1	249.3	240.2	239.3	233.8	232.9	236.6
50°	2385.5	1807.8	664.2	316.6	259.3	241.1	234.7	230.2	225.6	221.1	221.1
52.5°	2478.3	1862.4	671.4	311.2	252.9	230.2	222.0	220.2	215.6	211.1	209.3
55°	2562.0	1895.1	673.3	312.1	246.6	217.4	212.0	211.1	208.3	201.1	199.2
57.5°	2590.2	1881.5	636.9	303.9	242.9	209.3	202.0	203.8	200.2	193.8	192.9
60°	2587.5	1786.9	554.1	293.0	234.7	200.2	191.1	196.5	196.5	189.2	188.3
62.5°	2430.1	1568.5	453.1	272.0	225.6	191.1	181.1	189.2	192.0	187.4	186.5
65°	2103.5	1277.4	378.5	251.1	212.0	181.1	171.0	180.1	184.7	182.9	182.0
67.5°	1740.5	977.1	314.8	223.8	194.7	167.4	159.2	165.6	168.3	169.2	170.1
70°	1230.1	650.5	262.9	193.8	171.0	152.8	143.7	144.7	143.7	146.5	146.5
72.5°	668.7	374.8	213.8	164.7	147.4	132.8	126.5	121.9	121.9	121.0	121.0
73°	572.3	336.6	203.8	160.1	141.0	129.2	121.9	118.3	118.3	117.4	116.5
75°	321.2	246.6	174.7	137.4	121.9	112.8	107.4	101.9	101.0	101.0	101.0
77.5°	211.1	192.0	139.2	110.1	98.3	90.1	88.3	82.8	82.8	82.8	81.9
80°	158.3	151.0	107.4	83.7	75.5	69.1	67.3	63.7	62.8	59.1	60.0
82.5°	105.5	119.2	78.2	59.1	50.9	47.3	47.3	46.4	43.7	39.1	39.1
85°	83.7	97.3	56.4	36.4	30.0	25.5	26.4	25.5	24.6	20.0	19.1
87.5°	15.5	39.1	16.4	10.0	7.3	4.5	4.5	2.7	1.8	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)