

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: P484938

Luminaire Tested: **IFLD-S-SA2B-830-U-SL4-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P484938
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2B-830-U-SL4-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens with House Side Shield
Light Source: (32) 3000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

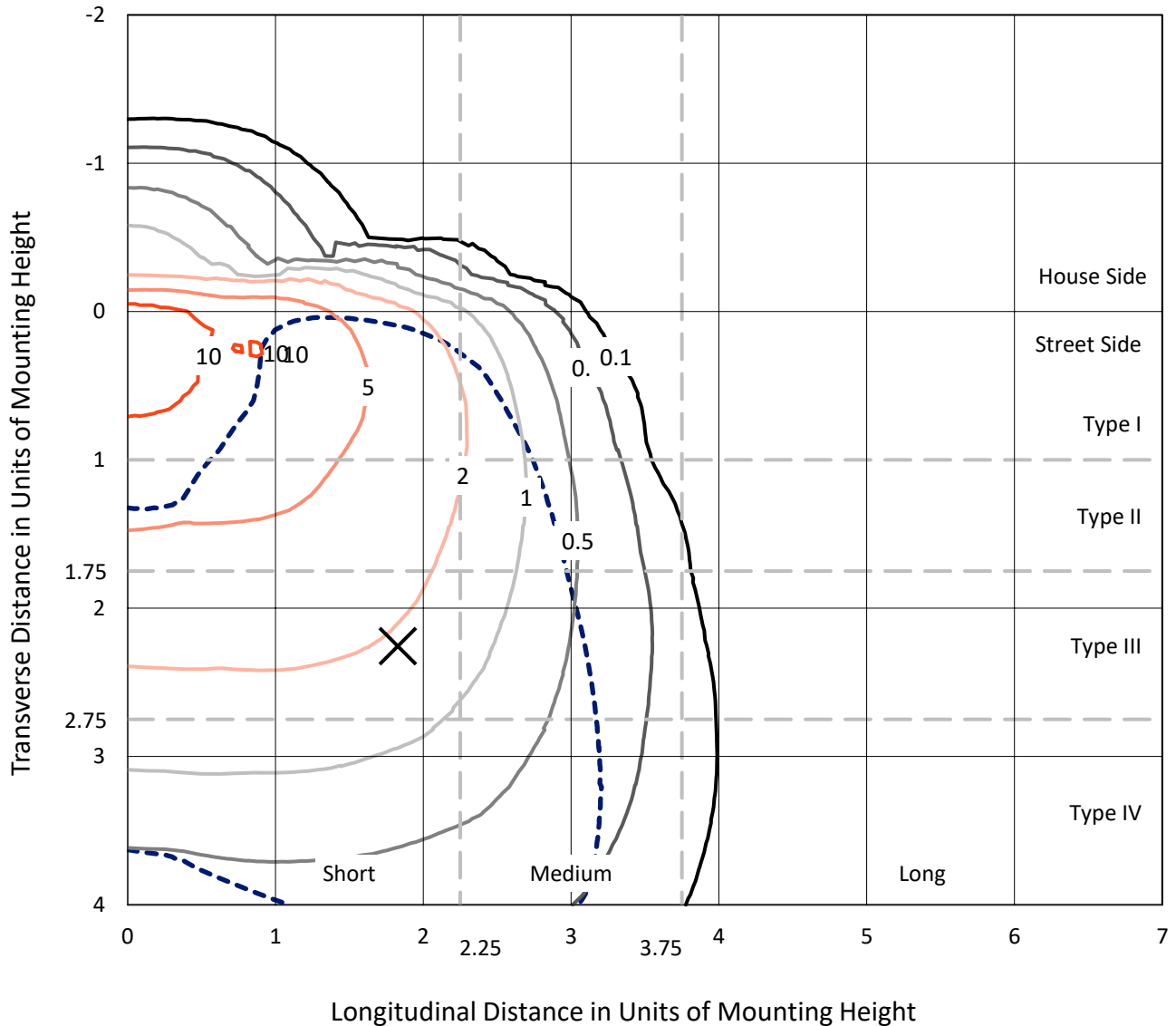
Lumens per Lamp: N/A
Luminaire Lumens: 7495 lumens
Efficiency: N/A
Efficacy: 91.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

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

REPORT NUMBER: P484938
 CATALOG NUMBER: IFLD-S-SA2B-830-U-SL4-HSS

Iso-Footcandle Lines of Horizontal Illumination

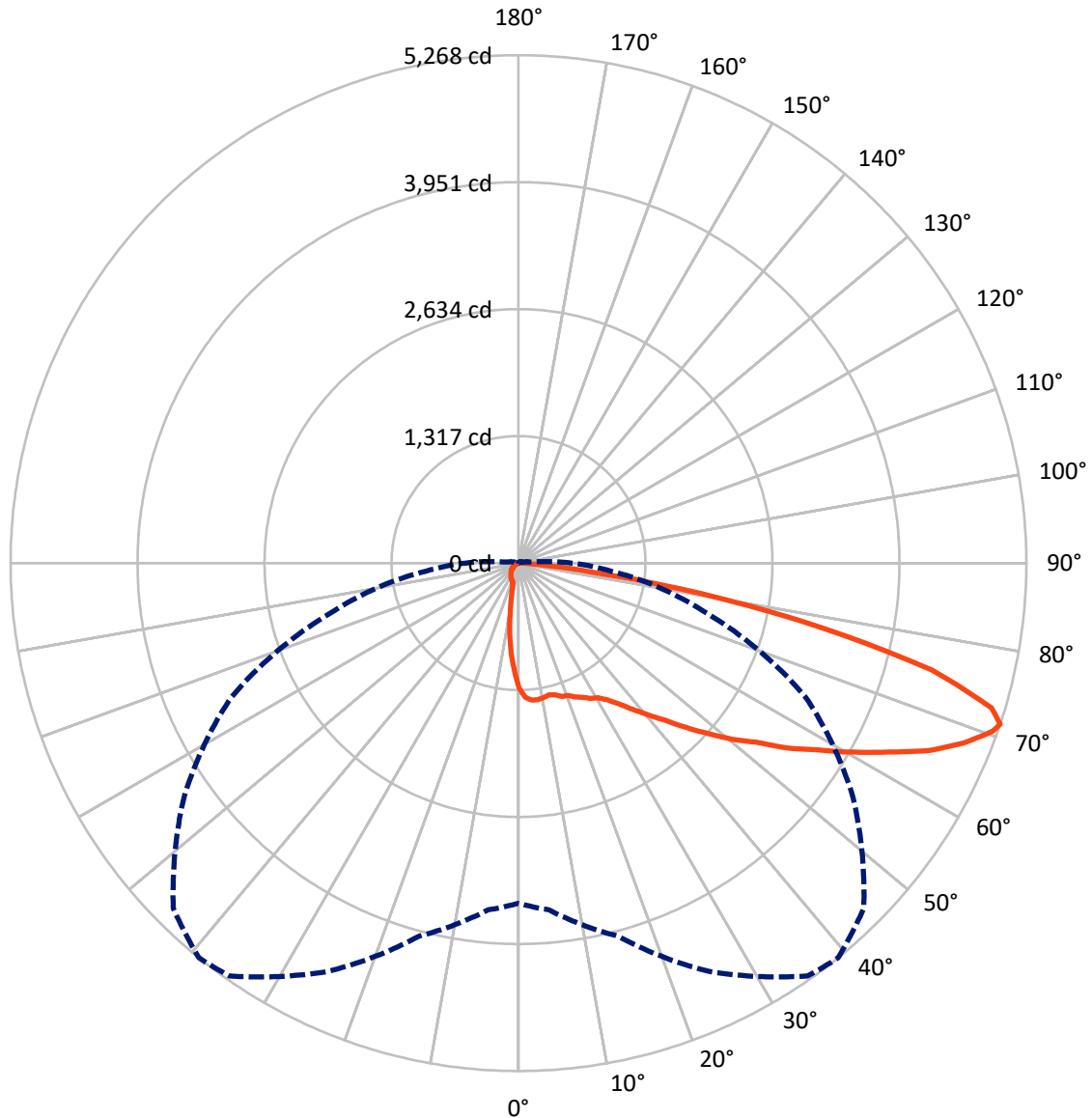
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 14.1 fc
 Type IV - Short - N/A

REPORT NUMBER: P484938
CATALOG NUMBER: IFLD-S-SA2B-830-U-SL4-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P484938
 CATALOG NUMBER: IFLD-S-SA2B-830-U-SL4-HSS

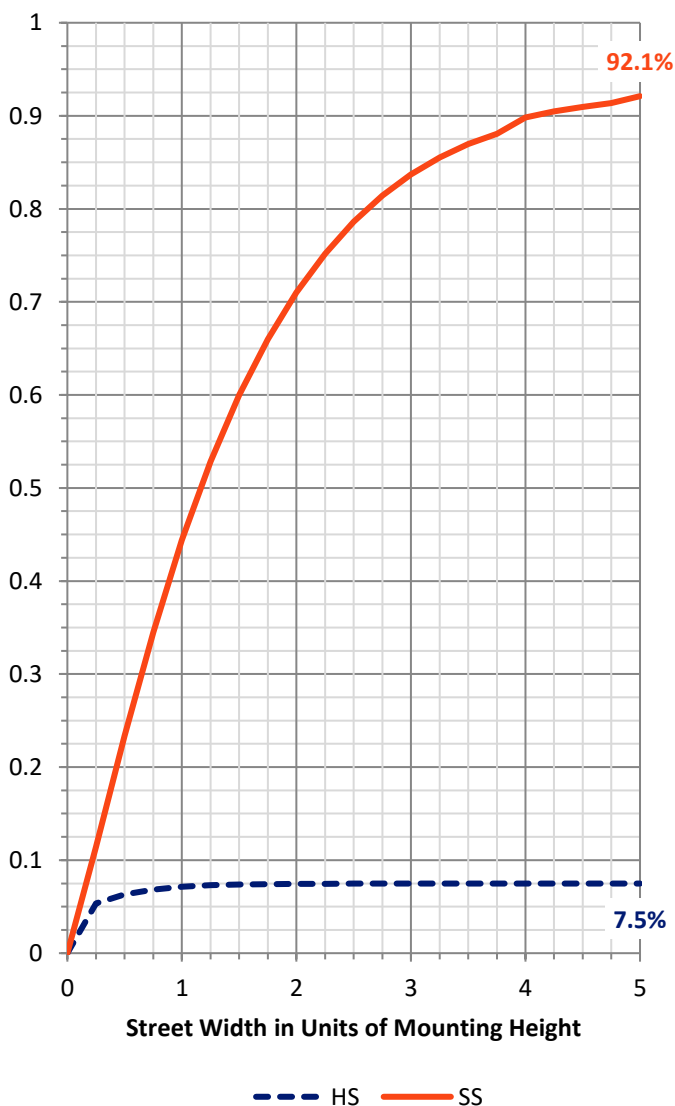
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	564.3	0.0	564.3
	% Fixture	7.5	0.0	7.5
Street Side	Lumens	6930.7	0.0	6930.7
	% Fixture	92.5	0.0	92.5
Total	Lumens	7495.0	0.0	7495.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	109.1	1.5
10°-20°	268.5	3.6
20°-30°	431.0	5.7
30°-40°	659.7	8.8
40°-50°	1058.9	14.1
50°-60°	1555.4	20.8
60°-70°	1959.0	26.1
70°-80°	1307.4	17.4
80°-90°	146.1	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°	7495.0	100.0
0°-180°	7495.0	100.0

Coefficient of Utilization



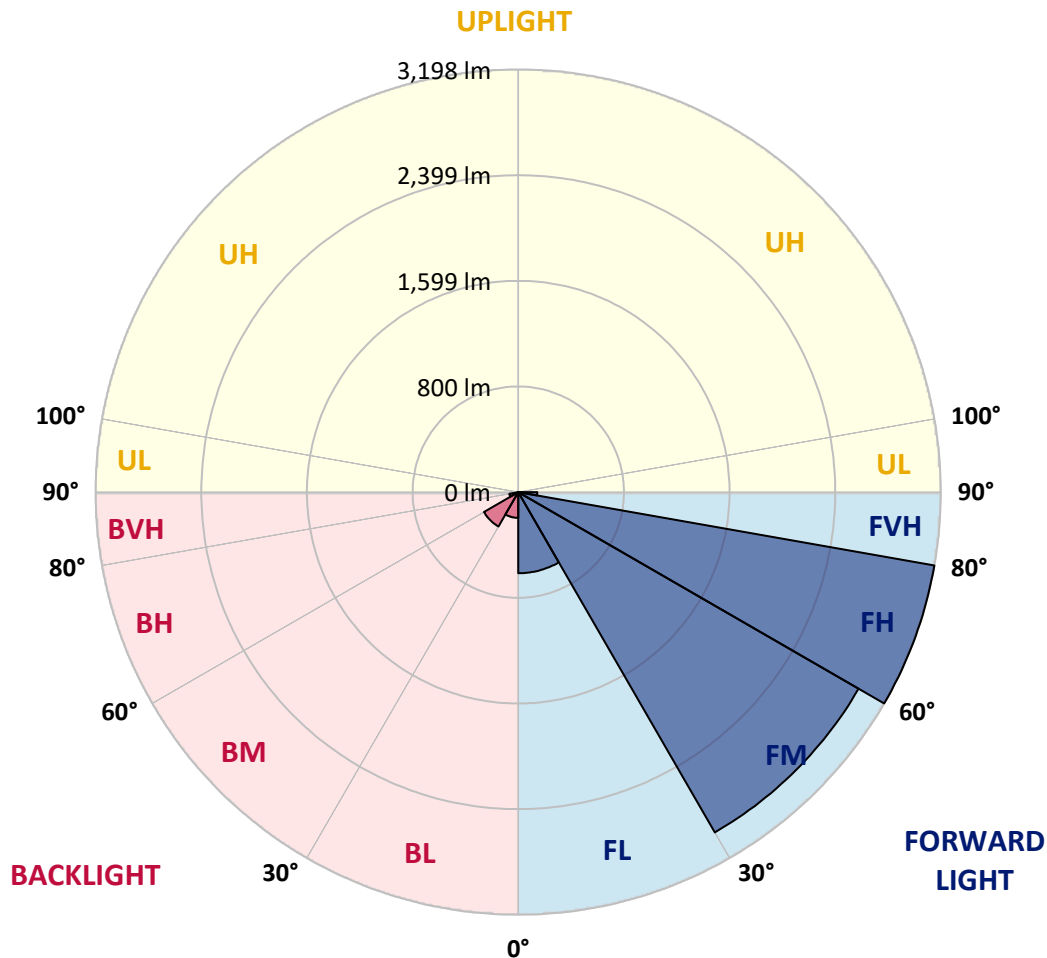
REPORT NUMBER: P484938
 CATALOG NUMBER: IFLD-S-SA2B-830-U-SL4-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	613.7	8.2			
FM (30°-60°)	2974.1	39.7			
FH (60°-80°)	3198.4	42.7			G2/5000
FVH (80°-90°)	144.5	1.9			G2/225
BL (0°-30°)	194.8	2.6	B1/500		
BM (30°-60°)	299.9	4.0	B1/1000		
BH (60°-80°)	67.9	0.9	B0/110		G0/110
BVH (80°-90°)	1.6	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





REPORT NUMBER: P484938

CATALOG NUMBER: IFLD-S-SA2B-830-U-SL4-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	1304.6	1304.6	1304.6	1304.6	1304.6	1304.6	1304.6	1304.6	1304.6	1304.6	1304.6
2.5°	1405.8	1419.6	1405.8	1399.9	1394.0	1395.0	1379.3	1382.2	1363.5	1339.0	1319.3
5°	1450.0	1468.7	1454.0	1447.1	1446.1	1427.4	1419.6	1400.9	1378.3	1339.9	1316.3
7.5°	1446.1	1442.2	1449.1	1443.2	1430.4	1430.4	1421.5	1395.0	1372.4	1329.1	1288.8
10°	1416.6	1428.4	1422.5	1415.6	1418.6	1419.6	1402.9	1384.2	1377.3	1334.0	1268.2
12.5°	1413.7	1394.0	1415.6	1416.6	1403.8	1402.9	1400.9	1396.0	1374.4	1335.0	1273.1
15°	1403.8	1396.0	1417.6	1418.6	1421.5	1418.6	1421.5	1417.6	1396.0	1373.4	1294.7
17.5°	1411.7	1402.9	1433.3	1448.1	1441.2	1455.0	1450.0	1432.4	1413.7	1387.1	1315.4
20°	1413.7	1426.5	1459.9	1465.8	1487.4	1464.8	1463.8	1445.1	1433.3	1404.8	1328.1
22.5°	1450.0	1455.9	1497.2	1510.0	1511.0	1508.1	1483.5	1461.8	1456.9	1421.5	1331.1
25°	1505.1	1525.7	1544.4	1552.3	1555.2	1541.5	1515.9	1488.4	1476.6	1454.0	1361.6
27.5°	1602.4	1589.6	1606.4	1618.2	1584.7	1589.6	1557.2	1533.6	1516.9	1497.2	1397.0
30°	1688.9	1677.1	1678.1	1676.2	1647.6	1621.1	1612.3	1571.0	1550.3	1558.2	1452.0
32.5°	1766.6	1741.0	1762.7	1752.8	1699.8	1691.9	1685.0	1632.9	1636.8	1673.2	1534.6
35°	1838.4	1829.5	1847.2	1829.5	1794.1	1792.2	1785.3	1740.1	1761.7	1813.8	1676.2
37.5°	1904.2	1907.2	1928.8	1920.0	1922.9	1924.9	1920.9	1872.8	1934.7	2051.7	1841.3
40°	1965.2	1961.3	2014.3	2041.9	2047.8	2069.4	2069.4	2057.6	2153.0	2284.7	2070.4
42.5°	2030.1	2039.9	2108.7	2154.9	2211.0	2229.6	2255.2	2261.1	2408.6	2559.0	2304.3
45°	2136.2	2119.5	2207.0	2316.1	2365.3	2431.2	2470.5	2503.9	2681.9	2888.3	2538.3
47.5°	2270.9	2237.5	2314.2	2472.5	2586.5	2640.6	2711.3	2755.6	2929.6	3142.9	2759.5
50°	2420.4	2385.9	2423.3	2641.5	2774.3	2872.6	2963.0	3019.1	3229.4	3428.0	2920.7
52.5°	2589.4	2558.0	2563.9	2817.5	3013.2	3084.9	3203.9	3287.4	3496.8	3600.1	2977.8
55°	2769.3	2761.5	2742.8	2989.6	3222.5	3383.8	3455.5	3555.8	3771.1	3693.4	3039.7
57.5°	2950.2	2925.7	2952.2	3217.6	3558.8	3655.1	3754.4	3814.4	3923.5	3775.0	3016.1
60°	3120.3	3122.3	3159.6	3465.4	3844.8	3981.5	4071.0	4034.6	4079.8	3810.4	2962.0
62.5°	3263.8	3259.9	3354.3	3743.6	4223.3	4315.7	4382.6	4220.4	4152.5	3844.8	2867.7
65°	3392.6	3436.9	3585.3	4074.9	4579.2	4685.4	4645.1	4396.4	4223.3	3743.6	2602.2
67.5°	3489.9	3555.8	3813.4	4386.5	4905.6	4980.3	4924.3	4530.1	4139.8	3346.4	2119.5
70°	3547.0	3613.8	3976.6	4646.1	5166.1	5220.2	5088.4	4426.8	3652.2	2423.3	1322.2
71°	3529.3	3610.9	4008.0	4673.6	5228.0	5268.3	5063.9	4236.1	3284.5	2029.1	964.4
72.5°	3369.0	3445.7	3877.3	4653.9	5153.3	5128.7	4872.2	3778.0	2585.5	1293.7	498.4
75°	2475.4	2558.0	3327.7	4025.7	4599.9	4430.8	3943.2	2651.4	1348.8	396.2	145.5
77.5°	1232.8	1246.6	2065.5	2922.7	3373.9	3205.8	2642.5	1478.6	504.3	117.0	72.7
80°	568.2	572.2	774.7	1513.9	2039.9	1920.0	1480.5	729.4	228.1	61.9	57.0
82.5°	387.3	393.2	467.0	627.2	885.8	747.1	599.7	467.0	130.8	37.4	56.0
85°	70.8	64.9	261.5	332.3	342.1	232.0	207.4	404.0	49.2	21.6	49.2
87.5°	0.0	1.0	36.4	135.7	121.9	54.1	70.8	98.3	4.9	6.9	8.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P484938

CATALOG NUMBER: IFLD-S-SA2B-830-U-SL4-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1304.6	1304.6	1304.6	1304.6	1304.6	1304.6	1304.6	1304.6	1304.6	1304.6	1304.6
2.5°	1302.6	1291.8	1255.4	1215.1	1178.7	1150.2	1113.8	1097.1	1070.6	1055.8	1054.8
5°	1283.9	1254.4	1191.5	1123.7	1048.0	985.1	915.3	875.9	830.7	816.9	814.0
7.5°	1252.4	1210.2	1117.8	1022.4	906.4	795.3	709.8	618.4	562.3	538.7	529.9
10°	1232.8	1181.7	1055.8	913.3	751.1	594.8	474.8	377.5	326.4	301.8	295.9
12.5°	1232.8	1177.7	1005.7	809.1	593.8	407.0	293.9	237.9	221.2	215.3	215.3
15°	1229.8	1169.9	957.5	701.9	439.4	273.3	219.2	207.4	205.5	204.5	203.5
17.5°	1244.6	1156.1	908.4	586.9	310.7	215.3	201.5	199.6	197.6	197.6	195.6
20°	1255.4	1148.2	849.4	465.0	232.0	199.6	193.7	190.7	189.7	188.8	190.7
22.5°	1246.6	1136.4	776.6	348.0	202.5	189.7	185.8	182.9	180.9	180.9	181.9
25°	1263.3	1125.6	703.9	262.5	189.7	180.9	177.0	175.0	174.0	173.0	171.1
27.5°	1285.9	1130.5	617.4	211.4	178.9	172.0	168.1	166.1	165.2	163.2	165.2
30°	1313.4	1129.6	522.0	184.8	169.1	162.2	158.3	157.3	155.3	154.3	155.3
32.5°	1360.6	1155.1	423.7	171.1	158.3	152.4	148.4	147.5	146.5	145.5	144.5
35°	1461.8	1186.6	331.3	160.2	148.4	141.6	138.6	136.6	135.7	134.7	133.7
37.5°	1586.7	1256.4	252.7	150.4	138.6	131.7	128.8	127.8	123.9	122.9	121.9
40°	1743.0	1331.1	194.7	139.6	129.8	122.9	119.9	117.0	112.1	110.1	108.1
42.5°	1937.7	1403.8	160.2	129.8	119.9	115.0	110.1	105.2	101.3	97.3	95.4
45°	2132.3	1488.4	140.6	120.9	112.1	106.2	102.2	95.4	88.5	82.6	81.6
47.5°	2294.5	1518.9	128.8	111.1	104.2	99.3	93.4	84.5	74.7	68.8	67.8
50°	2415.4	1501.2	117.0	101.3	95.4	90.4	82.6	71.8	61.9	56.0	54.1
52.5°	2439.0	1423.5	106.2	93.4	86.5	80.6	71.8	60.0	49.2	43.3	42.3
55°	2422.3	1294.7	97.3	86.5	78.6	69.8	60.0	48.2	38.3	32.4	31.5
57.5°	2387.9	1142.3	87.5	77.7	68.8	60.0	49.2	39.3	28.5	22.6	22.6
60°	2270.9	934.9	77.7	67.8	59.0	51.1	40.3	28.5	19.7	14.7	13.8
62.5°	2107.7	718.6	67.8	58.0	51.1	42.3	31.5	20.6	11.8	7.9	7.9
65°	1809.9	503.3	57.0	48.2	42.3	34.4	23.6	12.8	6.9	2.9	2.9
67.5°	1375.3	311.6	47.2	40.3	36.4	27.5	16.7	7.9	2.9	1.0	0.0
70°	789.4	162.2	37.4	32.4	28.5	20.6	11.8	3.9	2.0	0.0	0.0
71°	551.5	119.9	33.4	28.5	25.6	18.7	9.8	2.9	1.0	0.0	0.0
72.5°	276.2	79.6	28.5	23.6	20.6	14.7	7.9	2.9	1.0	0.0	0.0
75°	98.3	51.1	19.7	15.7	14.7	10.8	4.9	2.0	1.0	0.0	0.0
77.5°	67.8	41.3	13.8	9.8	9.8	6.9	2.9	1.0	1.0	0.0	0.0
80°	61.9	22.6	8.8	5.9	4.9	3.9	2.0	1.0	0.0	0.0	0.0
82.5°	61.9	16.7	4.9	3.9	2.9	2.0	1.0	0.0	0.0	0.0	0.0
85°	43.3	8.8	2.9	2.9	2.0	1.0	0.0	0.0	0.0	0.0	0.0
87.5°	6.9	2.9	2.0	1.0	1.0	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)