

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: P483884

Luminaire Tested: **IFLD-S-SA2A-727-U-SL2-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P483884
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2A-727-U-SL2-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens with House Side Shield
Light Source: (32) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

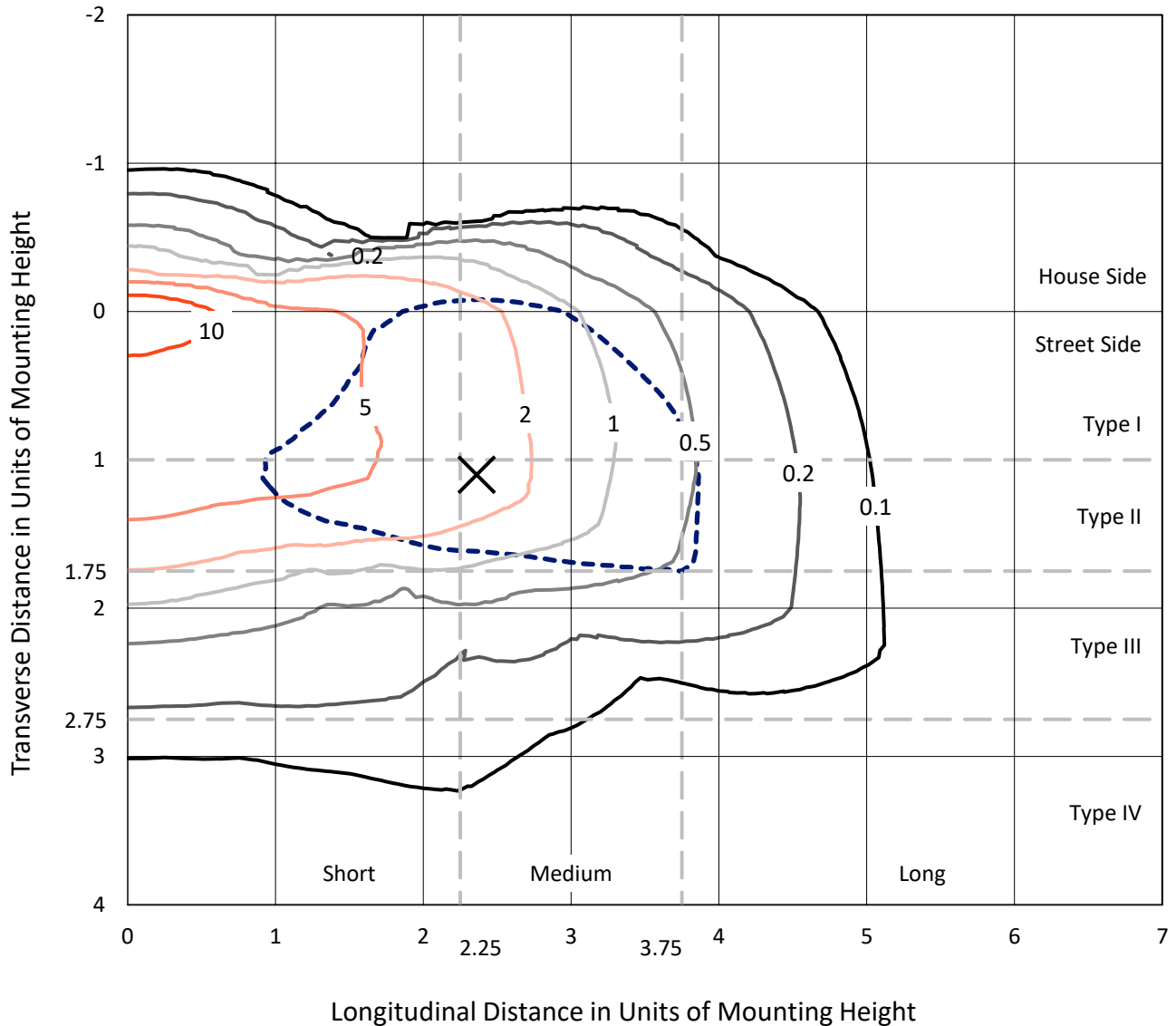
Lumens per Lamp: N/A
Luminaire Lumens: 6354.7 lumens
Efficiency: N/A
Efficacy: 99.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

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

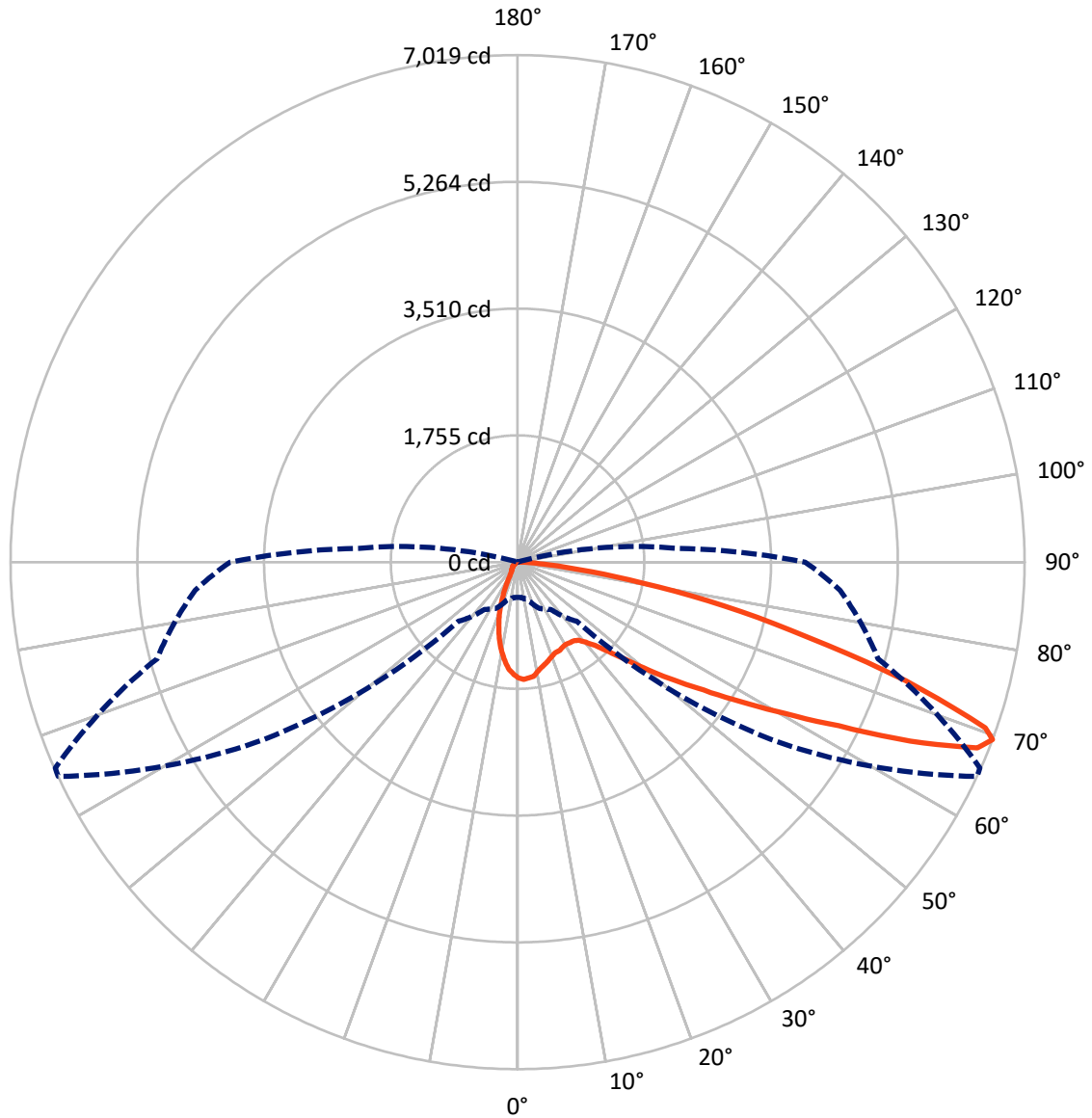
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 16 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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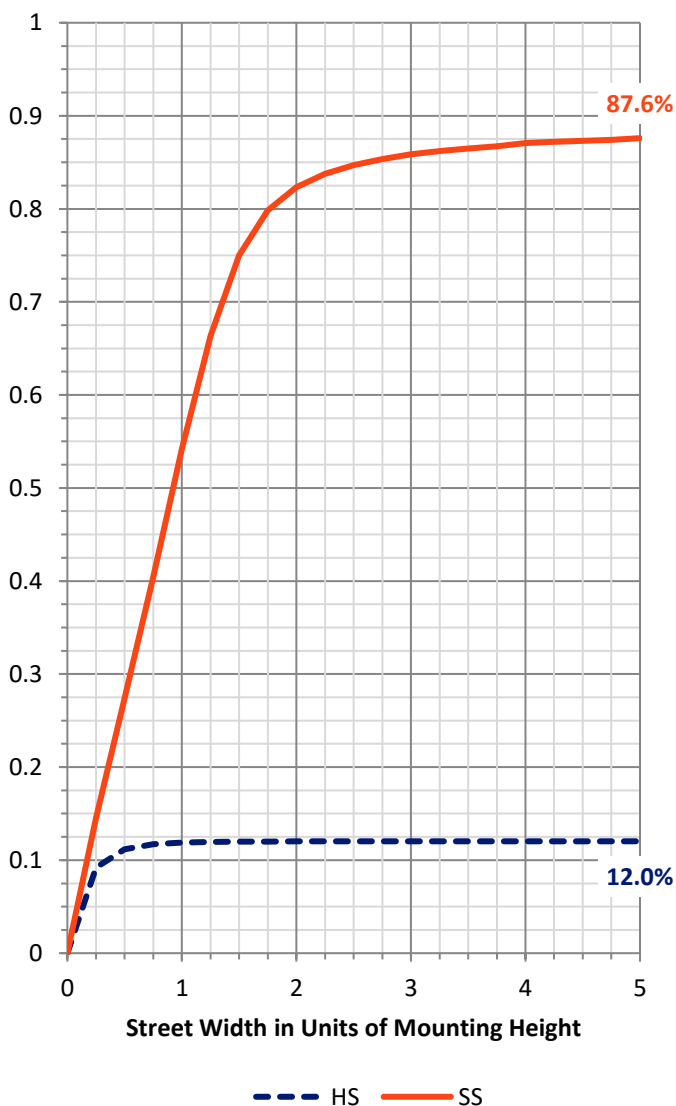
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	770.9	0.0	770.9
	% Fixture	12.1	0.0	12.1
Street Side	Lumens	5583.8	0.0	5583.8
	% Fixture	87.9	0.0	87.9
Total	Lumens	6354.7	0.0	6354.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.1	2.1
10°-20°	286.9	4.5
20°-30°	399.4	6.3
30°-40°	566.0	8.9
40°-50°	891.9	14.0
50°-60°	1447.3	22.8
60°-70°	1616.3	25.4
70°-80°	910.2	14.3
80°-90°	105.6	1.7
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°	6354.7	100.0
0°-180°	6354.7	100.0

Coefficient of Utilization



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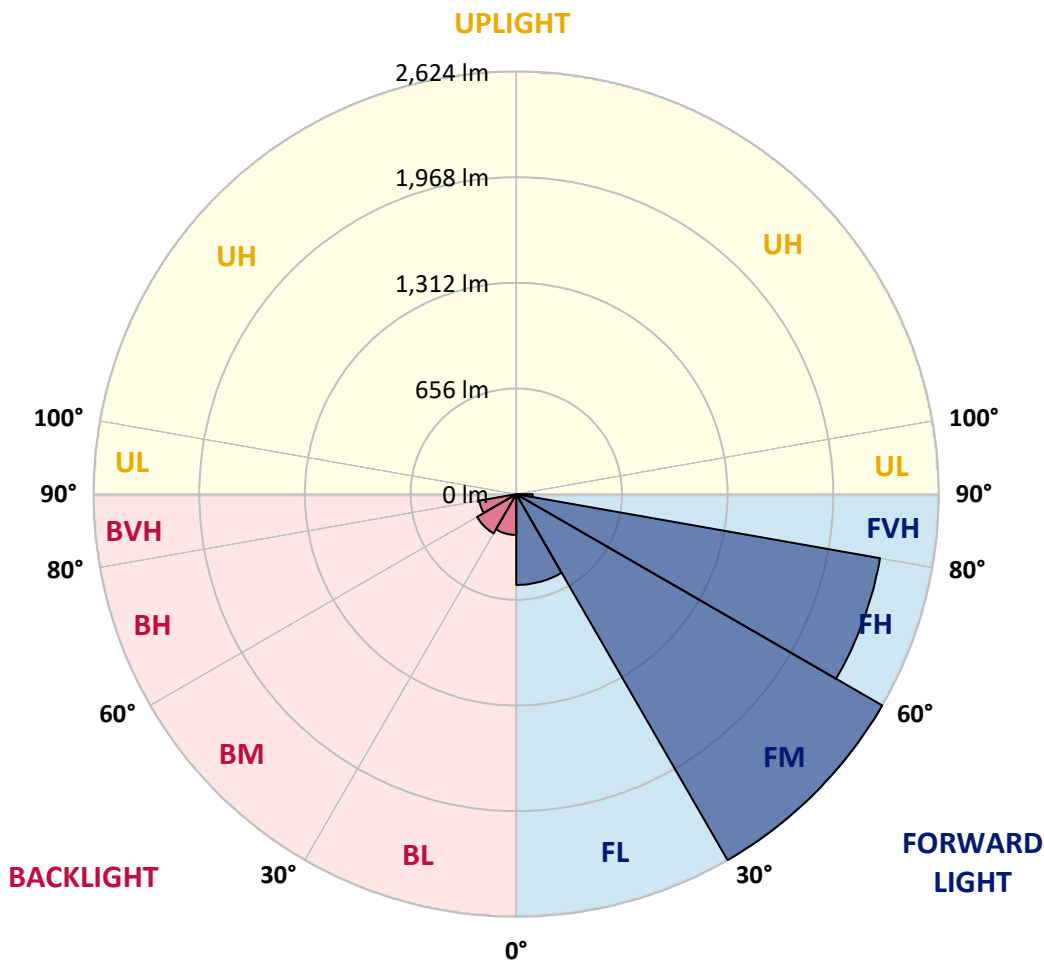
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	563.9	8.9			
FM (30°-60°)	2623.9	41.3			
FH (60°-80°)	2293.3	36.1			G2/5000
FVH (80°-90°)	102.7	1.6			G2/225
BL (0°-30°)	253.4	4.0	B1/500		
BM (30°-60°)	281.3	4.4	B1/1000		
BH (60°-80°)	233.2	3.7	B1/500		G1/500
BVH (80°-90°)	2.9	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 II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	1602.2	1602.2	1602.2	1602.2	1602.2	1602.2	1602.2	1602.2	1602.2	1602.2	1602.2
2.5°	1543.0	1555.0	1558.5	1570.5	1576.5	1602.2	1616.7	1625.3	1621.0	1630.5	1631.3
5°	1433.3	1426.4	1444.4	1457.3	1484.7	1529.3	1574.7	1609.9	1626.2	1641.6	1639.0
7.5°	1315.9	1312.4	1330.4	1359.6	1384.4	1438.4	1511.3	1597.9	1594.5	1632.2	1643.3
10°	1235.3	1238.7	1244.7	1273.8	1310.7	1365.6	1456.4	1537.0	1555.0	1634.7	1657.0
12.5°	1161.6	1167.6	1178.7	1208.7	1251.6	1308.1	1396.4	1490.7	1518.2	1620.2	1664.7
15°	1137.5	1123.8	1146.1	1168.4	1213.0	1263.6	1338.1	1455.6	1467.6	1603.0	1677.6
17.5°	1117.8	1109.3	1119.5	1137.5	1184.7	1225.8	1296.1	1417.9	1440.2	1596.2	1675.9
20°	1123.8	1116.1	1120.4	1134.1	1155.6	1194.1	1259.3	1381.9	1405.9	1564.5	1673.3
22.5°	1141.0	1147.0	1139.3	1142.7	1149.6	1169.3	1239.6	1356.1	1376.7	1558.5	1687.9
25°	1218.1	1207.8	1197.6	1193.3	1153.0	1161.6	1233.6	1354.4	1369.0	1537.0	1675.9
27.5°	1298.7	1290.1	1285.9	1261.0	1206.1	1180.4	1234.4	1330.4	1350.1	1528.4	1661.3
30°	1396.4	1407.6	1390.4	1360.4	1284.1	1220.7	1243.8	1318.4	1345.9	1495.9	1651.9
32.5°	1499.3	1505.3	1513.9	1491.6	1393.0	1281.6	1272.1	1329.6	1331.3	1495.9	1630.5
35°	1615.9	1607.3	1629.6	1631.3	1544.7	1389.6	1326.1	1337.3	1355.3	1489.0	1622.7
37.5°	1716.2	1730.8	1756.5	1797.6	1708.5	1542.2	1410.1	1373.3	1381.0	1520.7	1628.7
40°	1825.9	1840.5	1898.8	1939.9	1889.3	1713.6	1537.9	1457.3	1463.3	1567.9	1659.6
42.5°	1946.8	1975.1	2044.5	2116.5	2102.8	1931.3	1702.5	1580.7	1578.2	1685.3	1723.0
45°	2110.5	2148.2	2223.7	2306.8	2318.8	2180.8	1921.9	1765.0	1773.6	1838.8	1854.2
47.5°	2338.5	2336.8	2410.5	2503.1	2572.6	2439.7	2184.2	2012.8	2011.9	2081.4	2048.8
50°	2558.8	2559.7	2579.4	2686.6	2866.6	2798.9	2509.1	2342.0	2332.5	2366.8	2314.5
52.5°	2660.9	2648.9	2634.3	2763.7	3092.9	3251.5	2920.6	2714.9	2707.1	2686.6	2672.9
55°	2553.7	2558.0	2557.1	2691.7	3212.1	3729.0	3448.7	3125.5	3112.6	3048.3	3067.2
57.5°	2209.9	2196.2	2226.2	2436.3	3075.8	4054.7	4203.9	3643.2	3609.8	3396.4	3353.5
60°	1645.0	1649.3	1674.2	1921.9	2737.1	4123.3	4926.5	4251.0	4107.0	3641.5	3582.4
62.5°	1148.7	1140.1	1149.6	1288.4	1957.1	3849.0	5415.1	4990.0	4851.1	3920.1	3885.8
65°	822.1	810.9	848.7	933.5	1175.3	2942.9	5484.6	5974.1	5849.8	4365.0	4282.7
67.5°	591.5	589.8	633.5	787.8	834.9	1694.8	4970.2	6865.6	6790.1	4893.1	4524.5
69°	489.5	490.3	532.3	705.5	797.2	1157.3	4276.7	7019.0	7005.3	5165.7	4479.0
70°	426.9	430.3	479.2	656.6	781.8	951.5	3687.0	6868.2	6854.4	5218.8	4329.0
72.5°	263.2	265.7	330.0	526.3	743.2	776.7	2204.8	5619.2	5666.3	4975.4	3729.8
75°	126.0	126.9	173.2	380.6	716.6	736.4	1181.3	4146.4	4245.9	4017.0	2914.6
77.5°	66.9	66.9	83.2	202.3	580.3	692.6	701.2	2924.9	3007.2	2540.0	1657.0
80°	33.4	34.3	50.6	105.4	360.0	678.9	547.8	1744.5	1789.0	1036.4	516.1
82.5°	12.9	13.7	24.0	63.4	186.9	573.5	480.9	858.1	846.9	242.6	126.0
85°	1.7	1.7	8.6	37.7	79.7	252.9	396.9	358.3	346.3	53.1	60.9
87.5°	0.0	0.0	1.7	11.1	24.0	73.7	153.4	98.6	109.7	14.6	30.0
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°	1602.2	1602.2	1602.2	1602.2	1602.2	1602.2	1602.2	1602.2	1602.2	1602.2	1602.2
2.5°	1627.0	1609.0	1581.6	1555.0	1526.7	1492.4	1454.7	1441.0	1417.0	1415.3	1429.0
5°	1625.3	1596.2	1548.2	1491.6	1411.0	1350.1	1284.1	1236.1	1199.3	1175.3	1181.3
7.5°	1633.9	1598.7	1515.6	1393.9	1290.1	1169.3	1067.3	997.0	932.7	901.0	897.5
10°	1620.2	1573.0	1451.3	1280.7	1128.1	959.2	810.1	715.8	619.8	584.6	586.3
12.5°	1627.9	1561.9	1381.9	1164.1	954.1	734.6	556.3	427.8	337.8	308.6	305.2
15°	1633.0	1537.9	1315.0	1024.4	761.2	500.6	322.3	242.6	214.3	209.2	208.3
17.5°	1613.3	1508.7	1220.7	886.4	564.1	304.3	214.3	198.0	192.9	189.4	187.7
20°	1612.5	1491.6	1139.3	744.9	376.3	207.5	185.2	179.2	171.4	168.9	168.9
22.5°	1597.9	1455.6	1041.5	589.8	240.0	178.3	166.3	156.9	148.3	144.9	144.0
25°	1593.6	1413.6	949.8	443.2	182.6	159.4	147.4	133.7	123.4	118.3	115.7
27.5°	1581.6	1377.6	857.2	312.0	159.4	142.3	126.9	112.3	100.3	92.6	91.7
30°	1538.7	1339.9	754.4	216.0	144.9	126.0	108.9	91.7	79.7	74.6	72.9
32.5°	1520.7	1304.7	642.1	166.3	132.0	111.4	91.7	76.3	66.9	61.7	60.9
35°	1499.3	1253.3	533.2	144.9	120.0	96.9	77.2	64.3	56.6	52.3	52.3
37.5°	1501.9	1212.1	431.2	131.2	107.2	83.2	66.0	54.9	48.0	43.7	43.7
40°	1494.2	1179.6	335.2	119.2	95.2	71.2	55.7	46.3	40.3	36.0	35.1
42.5°	1529.3	1171.0	252.9	108.9	83.2	60.9	48.0	39.4	33.4	28.3	28.3
45°	1588.5	1184.7	197.2	99.4	71.2	52.3	41.1	32.6	26.6	23.1	22.3
47.5°	1746.2	1238.7	154.3	91.7	60.9	45.4	34.3	26.6	21.4	18.0	17.1
50°	1975.1	1359.6	131.2	80.6	51.4	38.6	28.3	20.6	17.1	13.7	12.9
52.5°	2300.8	1562.7	119.2	71.2	42.9	31.7	22.3	16.3	12.9	10.3	9.4
55°	2655.7	1816.5	108.0	60.0	36.0	25.7	18.0	12.9	9.4	6.9	6.0
57.5°	2932.6	2035.9	98.6	49.7	29.1	20.6	13.7	9.4	6.9	4.3	3.4
60°	3235.2	2190.2	86.6	39.4	24.0	15.4	10.3	6.9	5.1	2.6	2.6
62.5°	3547.2	2371.1	71.2	30.9	18.9	12.0	7.7	5.1	3.4	0.9	0.9
65°	3981.0	2512.6	54.9	24.0	14.6	8.6	6.0	4.3	1.7	0.0	0.0
67.5°	4103.6	2443.1	40.3	18.9	10.3	6.0	4.3	2.6	0.9	0.0	0.0
69°	3981.0	2200.5	35.1	16.3	8.6	5.1	3.4	1.7	0.9	0.0	0.0
70°	3757.3	2011.9	30.9	13.7	7.7	5.1	2.6	1.7	0.9	0.0	0.0
72.5°	3142.6	1543.0	24.0	10.3	6.0	4.3	2.6	1.7	0.0	0.0	0.0
75°	2305.1	953.2	18.0	7.7	5.1	3.4	2.6	1.7	0.0	0.0	0.0
77.5°	1235.3	348.0	12.9	5.1	3.4	2.6	2.6	1.7	0.0	0.0	0.0
80°	338.6	102.9	9.4	3.4	2.6	1.7	1.7	0.9	0.0	0.0	0.0
82.5°	92.6	26.6	6.0	3.4	2.6	1.7	0.9	0.0	0.0	0.0	0.0
85°	49.7	10.3	3.4	2.6	1.7	0.9	0.0	0.0	0.0	0.0	0.0
87.5°	25.7	3.4	2.6	1.7	1.7	0.9	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)