

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: P481705

Luminaire Tested: **IFLD-S-SA3A-750-U-T2-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481705
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3A-750-U-T2-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens with House Side Shield
Light Source: (48) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

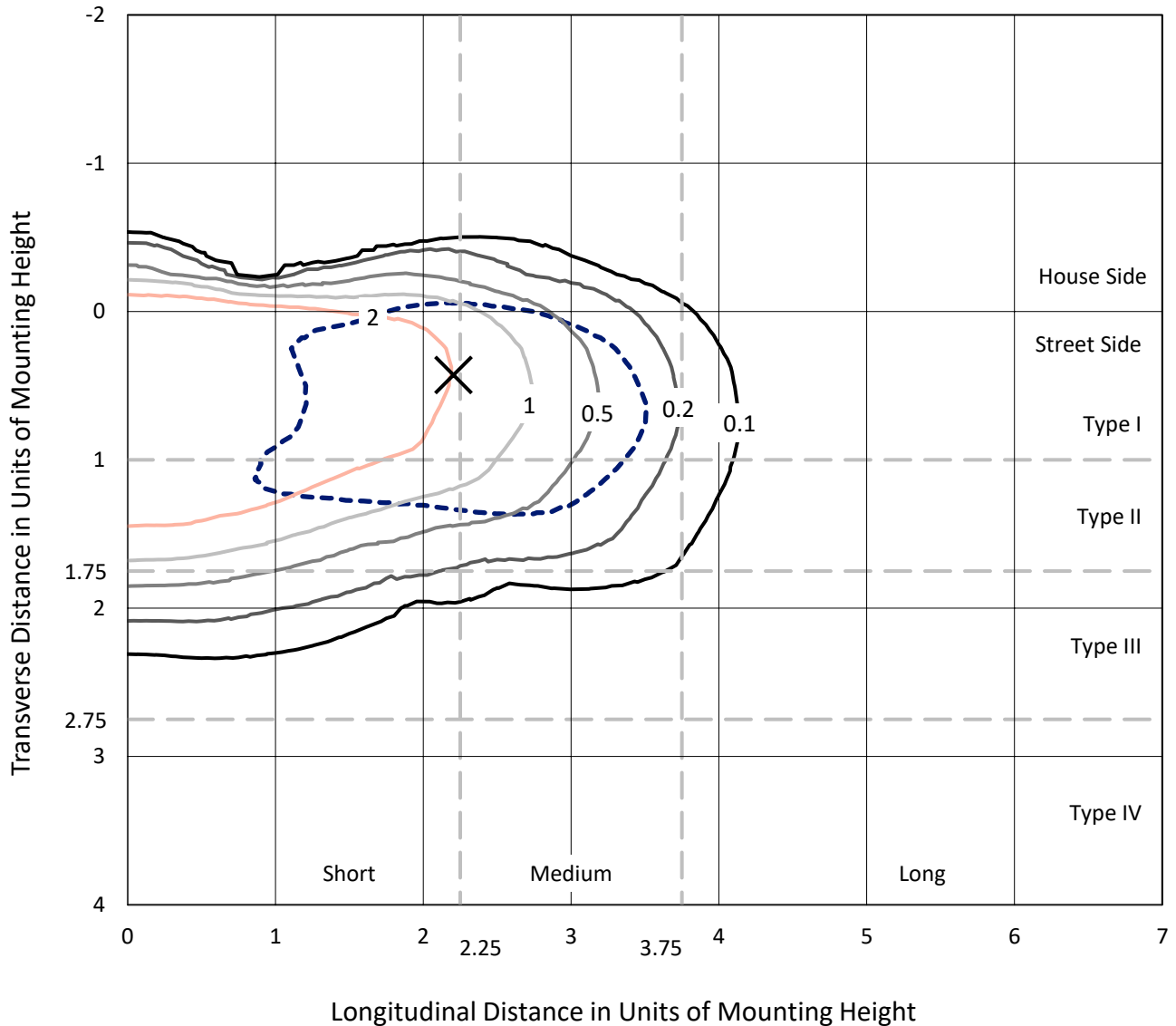
Lumens per Lamp: N/A
Luminaire Lumens: 10134.9 lumens
Efficiency: N/A
Efficacy: 106.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 94.8
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

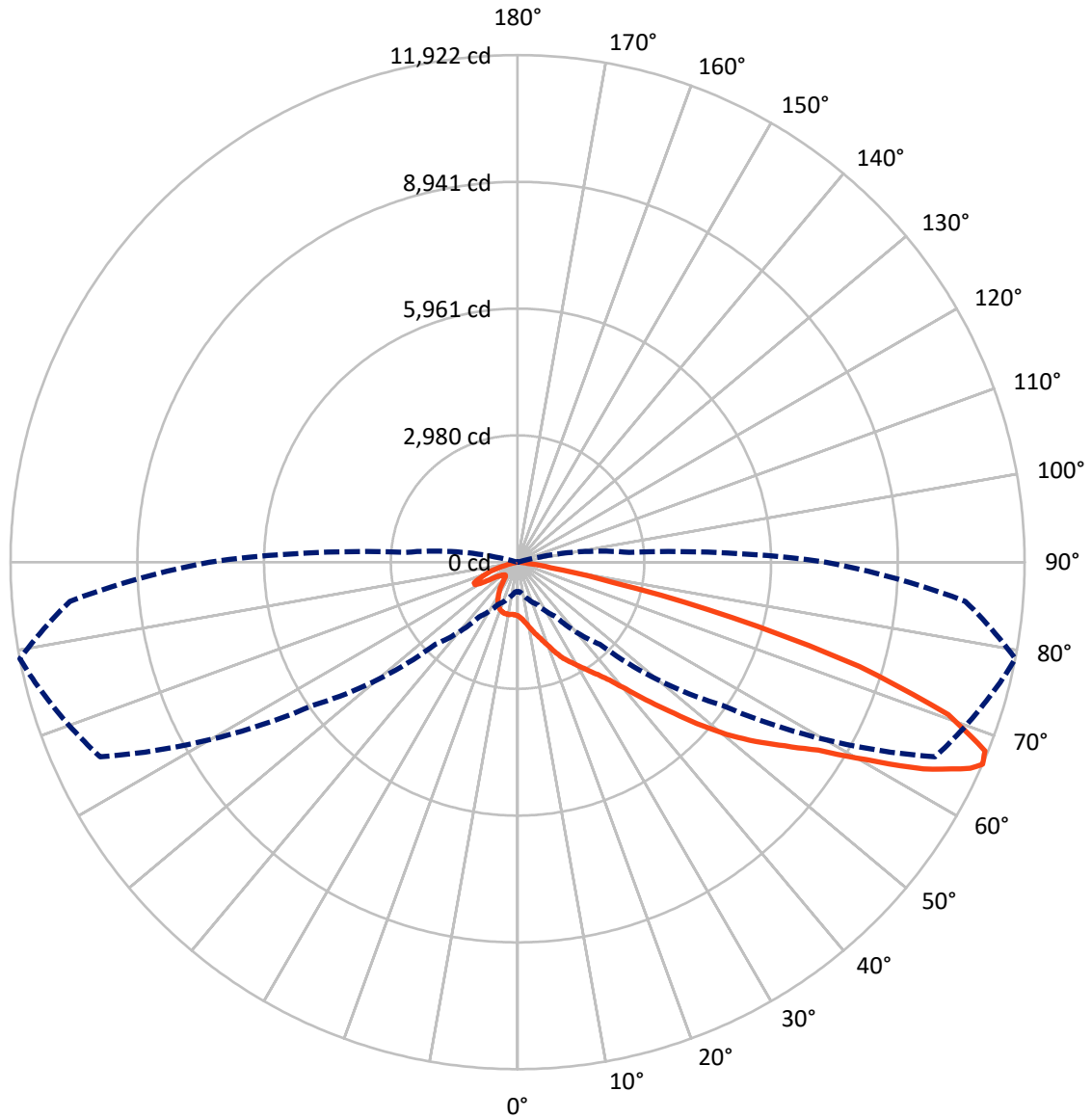
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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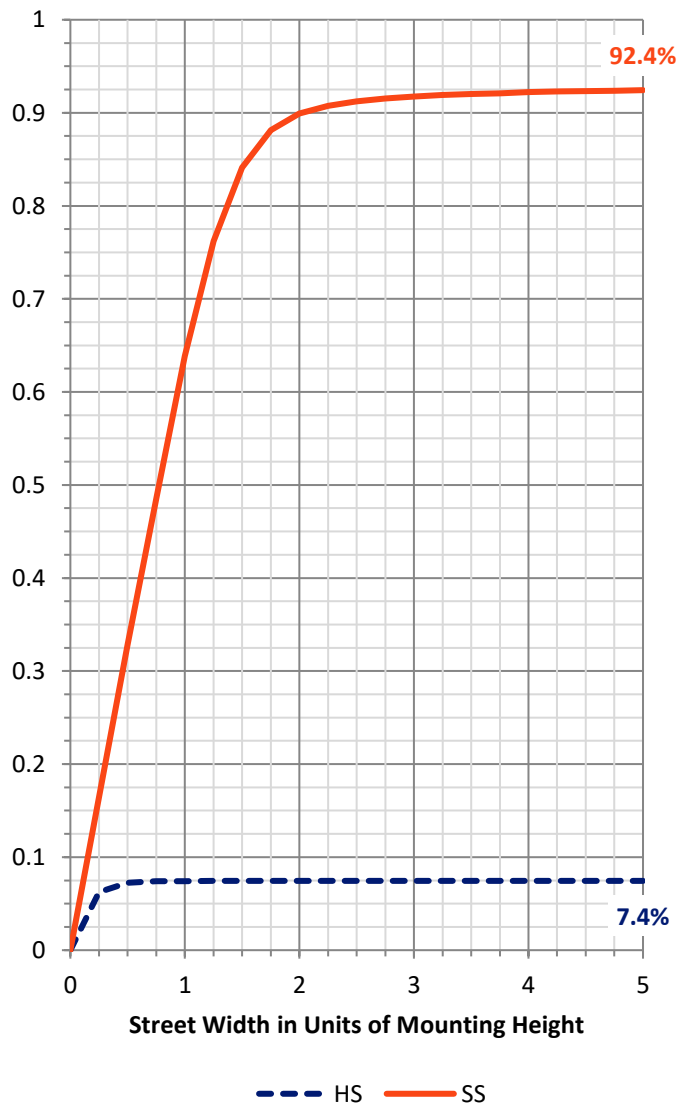
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	761.0	0.0	761.0
	% Fixture	7.5	0.0	7.5
Street Side	Lumens	9373.9	0.0	9373.9
	% Fixture	92.5	0.0	92.5
Total	Lumens	10134.9	0.0	10134.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	119.2	1.2
10°-20°	328.2	3.2
20°-30°	545.2	5.4
30°-40°	936.4	9.2
40°-50°	1696.5	16.7
50°-60°	2681.6	26.5
60°-70°	2728.8	26.9
70°-80°	1040.6	10.3
80°-90°	58.3	0.6
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°	10134.9	100.0
0°-180°	10134.9	100.0

Coefficient of Utilization



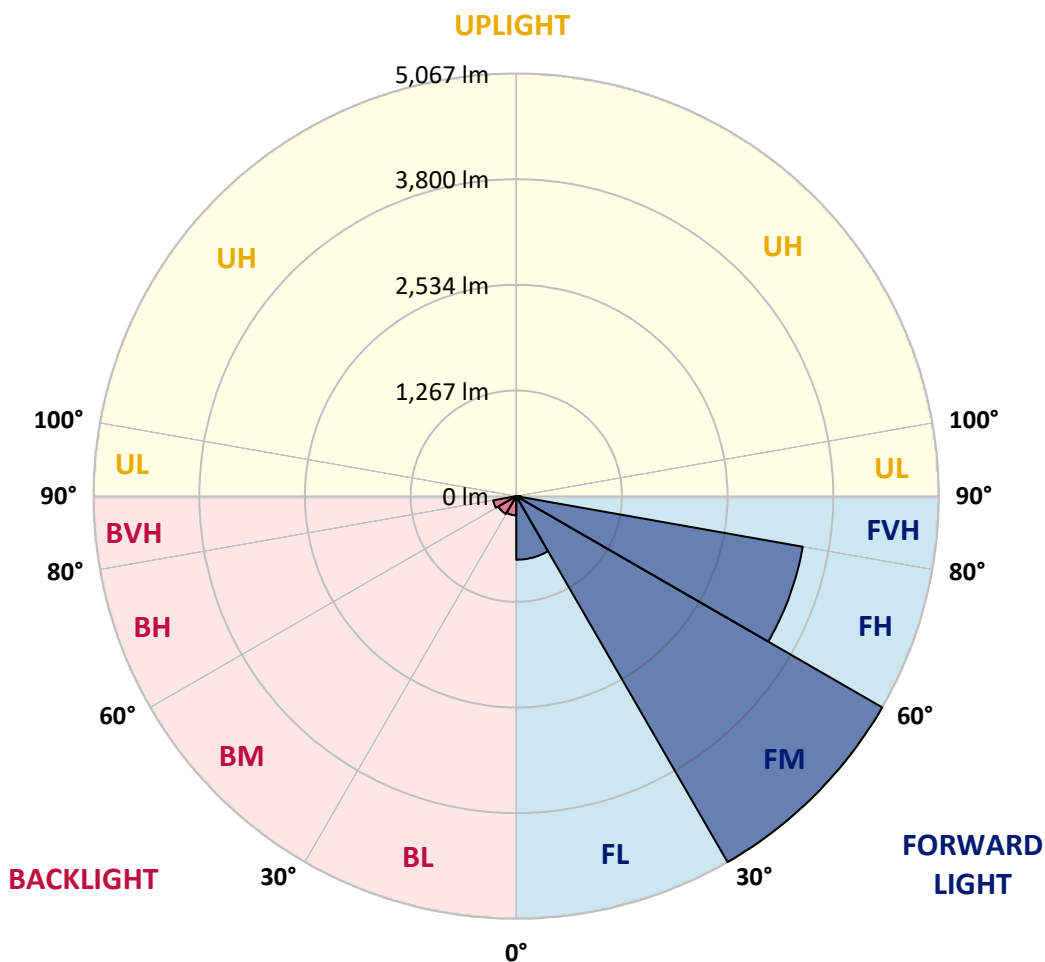
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	762.5	7.5			
FM (30°-60°)	5067.2	50.0			
FH (60°-80°)	3488.9	34.4			G2/5000
FVH (80°-90°)	55.4	0.5			G1/100
BL (0°-30°)	230.1	2.3	B1/500		
BM (30°-60°)	247.3	2.4	B1/1000		
BH (60°-80°)	280.5	2.8	B1/500		G1/500
BVH (80°-90°)	3.0	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 Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	1260.9	1260.9	1260.9	1260.9	1260.9	1260.9	1260.9	1260.9	1260.9	1260.9	1260.9
2.5°	1428.1	1426.5	1420.3	1409.3	1395.3	1390.6	1370.3	1342.2	1326.5	1309.3	1301.5
5°	1526.5	1518.7	1537.5	1529.7	1532.8	1495.3	1470.3	1450.0	1390.6	1367.2	1329.7
7.5°	1548.4	1556.2	1554.7	1567.2	1579.6	1593.7	1576.5	1546.8	1487.5	1453.1	1412.5
10°	1548.4	1545.3	1557.8	1575.0	1610.9	1642.1	1689.0	1650.0	1604.6	1564.0	1490.6
12.5°	1520.3	1515.6	1528.1	1564.0	1628.1	1692.1	1743.7	1781.2	1717.1	1684.3	1589.0
15°	1434.3	1429.7	1481.2	1545.3	1629.6	1734.3	1842.1	1903.1	1859.3	1807.8	1701.5
17.5°	1328.1	1334.3	1389.0	1495.3	1629.6	1754.6	1892.1	2025.0	2018.7	1953.1	1842.1
20°	1292.2	1296.8	1351.5	1428.1	1581.2	1768.7	1970.3	2157.8	2195.3	2117.1	1971.8
22.5°	1360.9	1356.2	1360.9	1407.8	1548.4	1756.2	2021.8	2309.3	2376.5	2315.6	2142.1
25°	1595.3	1592.1	1553.1	1481.2	1529.7	1728.1	2048.4	2409.3	2564.0	2507.8	2279.6
27.5°	1939.0	1926.5	1865.6	1715.6	1617.1	1745.3	2092.1	2506.2	2728.1	2664.0	2403.1
30°	2307.8	2278.1	2198.4	2010.9	1843.7	1809.3	2117.1	2578.1	2910.9	2829.6	2510.9
32.5°	2562.4	2601.5	2576.5	2385.9	2129.6	1957.8	2157.8	2668.7	3079.6	3026.5	2695.2
35°	2956.2	3001.5	2896.8	2728.1	2470.3	2193.7	2243.7	2742.1	3339.0	3249.9	2867.1
37.5°	3453.0	3487.4	3412.4	3092.1	2820.2	2484.3	2420.3	2895.2	3562.4	3520.2	3087.4
40°	3703.0	3868.7	3762.4	3473.4	3181.2	2890.6	2712.4	3074.9	3951.5	3917.1	3392.1
42.5°	4048.3	4131.2	4076.5	3862.4	3557.7	3324.9	3073.4	3424.9	4423.3	4423.3	3804.6
45°	4414.0	4417.1	4414.0	4239.0	3968.7	3848.3	3560.9	3864.0	4931.1	4987.4	4298.3
47.5°	4714.0	4807.7	4799.9	4695.2	4485.8	4440.5	4048.3	4364.0	5568.6	5667.1	4779.6
50°	4868.6	4973.3	5004.6	5059.3	5049.9	5145.2	4581.1	4943.6	6118.6	6360.8	5398.3
52.5°	4826.4	4834.3	5026.4	5242.1	5585.8	5853.0	5223.3	5601.4	6762.3	7001.4	5876.4
55°	4481.1	4451.5	4846.8	5093.6	5804.5	6285.8	6112.4	6421.7	7263.9	7627.9	6370.2
57.5°	3723.3	3731.2	4096.8	4598.3	5642.1	6457.7	7062.3	7493.6	7967.0	8334.2	7063.9
60°	2570.3	2560.9	2970.2	3549.9	4687.4	6137.4	7609.2	8882.6	8907.6	9427.9	8309.2
62.5°	1445.3	1448.4	1759.3	2254.6	3279.6	5015.5	7582.6	10357.6	10251.3	10707.6	9724.8
65°	818.7	839.0	1053.1	1335.9	1964.0	3367.1	6521.7	10945.1	11287.2	11693.5	10584.1
66°	692.2	706.2	889.0	1103.1	1567.2	2731.2	5870.2	10831.0	11612.2	11921.6	10566.9
67.5°	535.9	554.7	707.8	875.0	1150.0	1890.6	4724.9	10263.8	11671.6	11852.8	10268.5
70°	367.2	379.7	496.9	664.0	785.9	967.2	2824.9	8485.7	10590.4	10743.5	8924.8
72.5°	257.8	264.1	348.4	503.1	604.7	553.1	1401.5	6037.4	8104.5	8402.9	6942.0
75°	185.9	192.2	239.1	360.9	471.9	362.5	642.2	3856.2	4970.2	5204.6	4181.2
77.5°	134.4	142.2	162.5	232.8	342.2	254.7	315.6	2014.0	2343.7	2303.1	1798.4
80°	81.2	89.1	120.3	150.0	250.0	179.7	173.4	840.6	831.2	789.0	565.6
82.5°	37.5	43.7	64.1	101.6	175.0	125.0	82.8	300.0	262.5	240.6	159.4
85°	10.9	14.1	37.5	76.6	89.1	60.9	50.0	103.1	107.8	92.2	53.1
87.5°	0.0	1.6	17.2	18.7	26.6	20.3	18.7	26.6	50.0	40.6	17.2
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°	1260.9	1260.9	1260.9	1260.9	1260.9	1260.9	1260.9	1260.9	1260.9	1260.9	1260.9
2.5°	1273.4	1262.5	1235.9	1195.3	1159.3	1140.6	1114.0	1090.6	1078.1	1076.5	1075.0
5°	1304.7	1275.0	1210.9	1137.5	1082.8	1023.4	982.8	953.1	925.0	898.4	914.0
7.5°	1346.8	1300.0	1195.3	1100.0	981.2	904.7	832.8	790.6	765.6	742.2	739.0
10°	1412.5	1353.1	1184.3	1012.5	876.5	764.0	690.6	629.7	595.3	554.7	570.3
12.5°	1501.5	1395.3	1143.7	932.8	757.8	639.0	534.4	435.9	381.2	339.1	340.6
15°	1590.6	1451.5	1106.2	835.9	650.0	493.7	340.6	273.4	257.8	248.4	251.6
17.5°	1678.1	1496.8	1048.4	737.5	526.5	314.1	248.4	234.4	226.6	217.2	217.2
20°	1784.3	1526.5	976.5	646.9	362.5	232.8	212.5	203.1	190.6	178.1	179.7
22.5°	1887.5	1551.5	893.7	531.2	243.7	201.6	178.1	165.6	154.7	142.2	142.2
25°	1990.6	1559.3	785.9	381.2	196.9	160.9	139.1	121.9	110.9	100.0	101.6
27.5°	2060.9	1510.9	684.4	243.7	157.8	121.9	96.9	82.8	73.4	62.5	62.5
30°	2101.5	1421.8	575.0	171.9	118.7	82.8	57.8	43.7	34.4	26.6	25.0
32.5°	2142.1	1350.0	451.6	131.2	78.1	43.7	21.9	7.8	0.0	0.0	0.0
35°	2223.4	1268.7	303.1	73.4	26.6	1.6	0.0	0.0	0.0	0.0	0.0
37.5°	2274.9	1156.2	139.1	10.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	2404.6	1100.0	34.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	2615.6	1060.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	2846.8	1045.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	3154.6	1087.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	3479.6	1201.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	3835.8	1309.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	4146.8	1439.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	4718.6	1745.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	5745.2	2346.8	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	6901.4	2793.7	17.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	7324.8	2782.7	29.7	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	7249.8	2629.6	29.7	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	6860.8	2335.9	26.6	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	5892.0	1929.6	26.6	4.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	4492.1	1503.1	25.0	6.2	1.6	0.0	0.0	0.0	0.0	0.0	0.0
75°	2710.9	800.0	20.3	7.8	3.1	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	1079.7	281.2	15.6	6.2	3.1	0.0	0.0	0.0	0.0	0.0	0.0
80°	292.2	84.4	9.4	6.2	4.7	1.6	0.0	0.0	0.0	0.0	0.0
82.5°	76.6	31.2	7.8	6.2	3.1	1.6	0.0	0.0	0.0	0.0	0.0
85°	29.7	12.5	6.2	4.7	4.7	3.1	1.6	0.0	0.0	0.0	0.0
87.5°	9.4	4.7	4.7	3.1	3.1	1.6	1.6	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)