

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: P482871

Luminaire Tested: **IFLD-S-SA2B-750-U-T3R-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P482871
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2B-750-U-T3R-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R distribution lens with House Side Shield
Light Source: (32) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

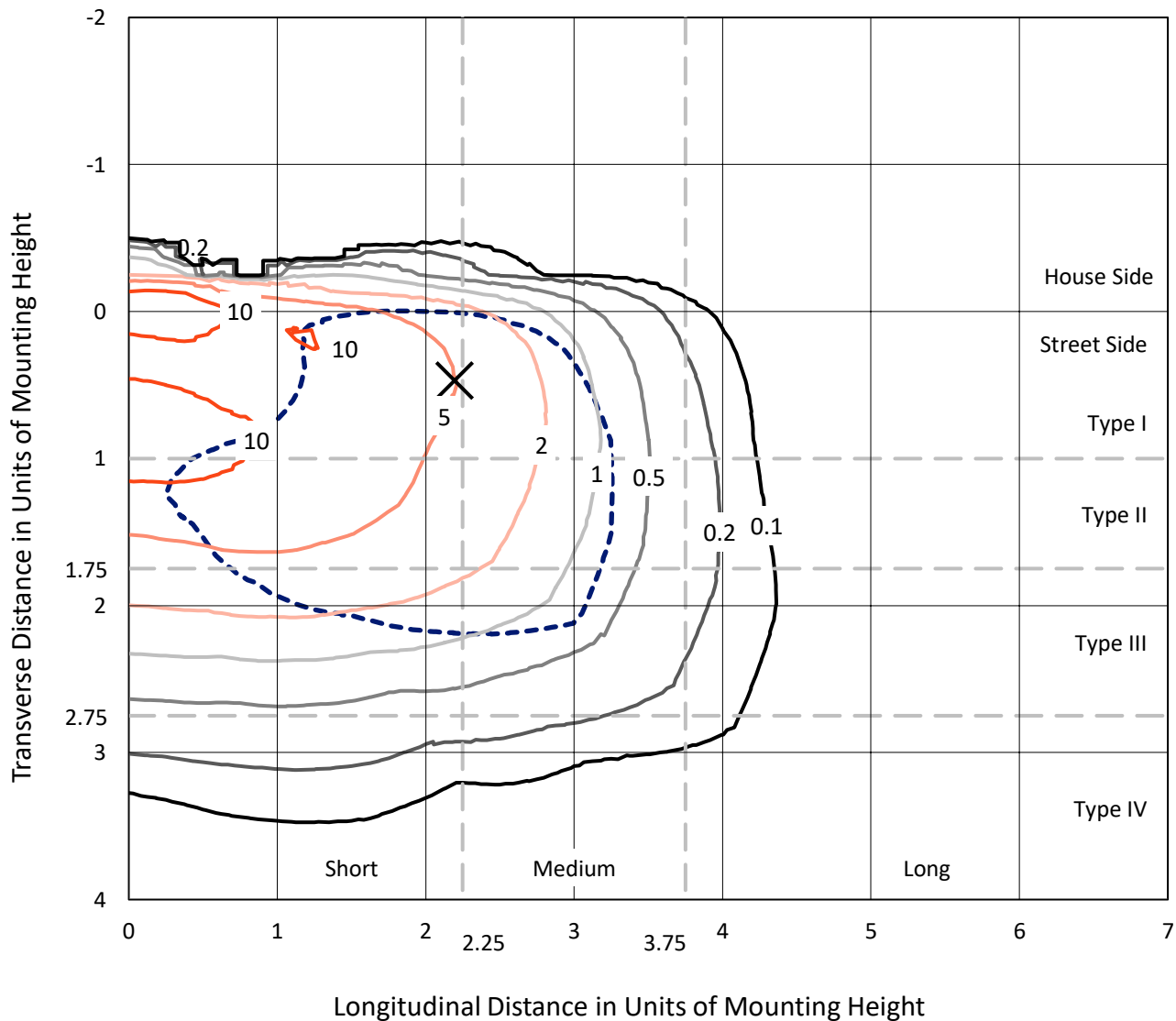
Lumens per Lamp: N/A
Luminaire Lumens: 8371.9 lumens
Efficiency: N/A
Efficacy: 101.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

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

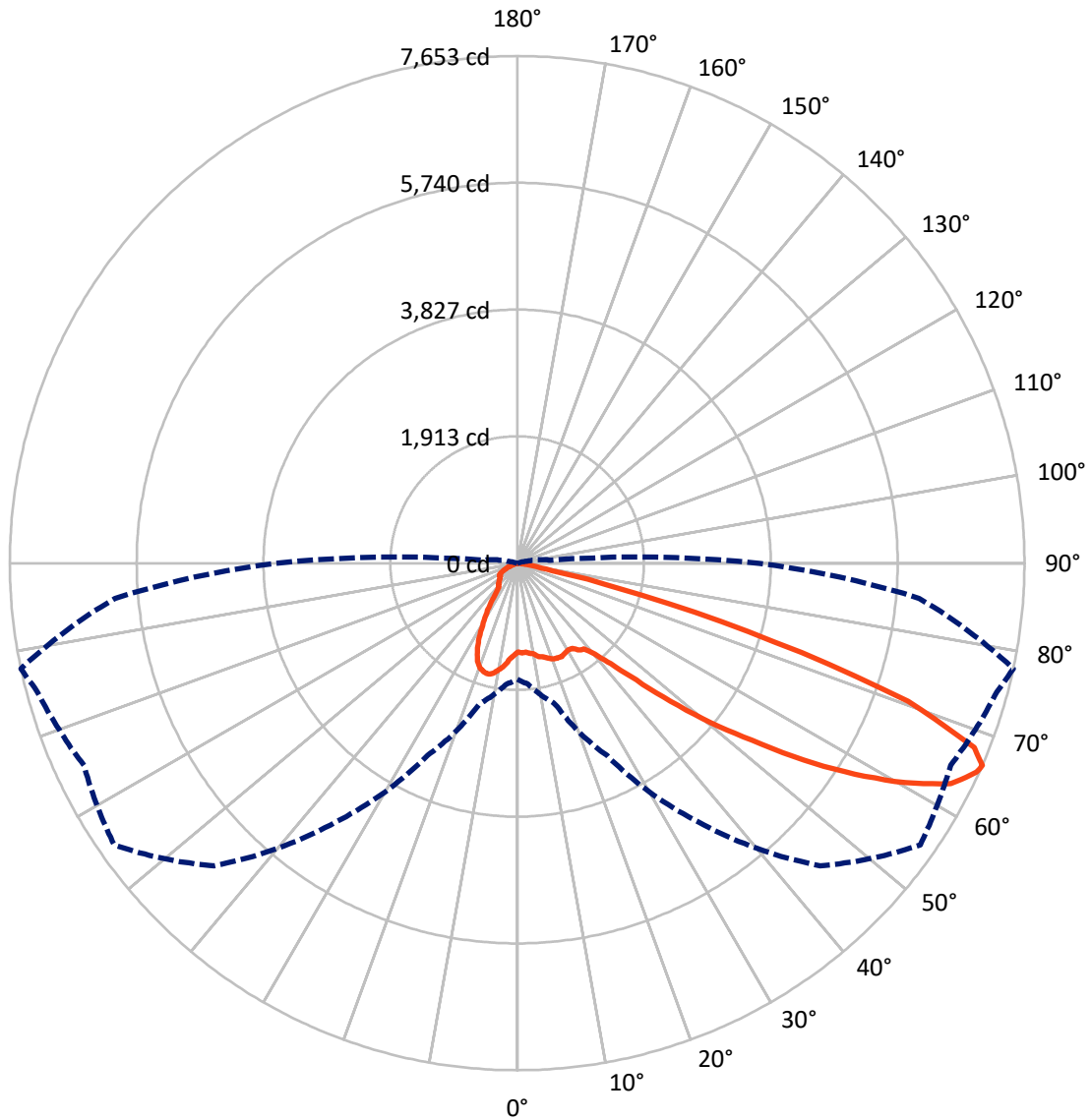
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 15.3 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 78-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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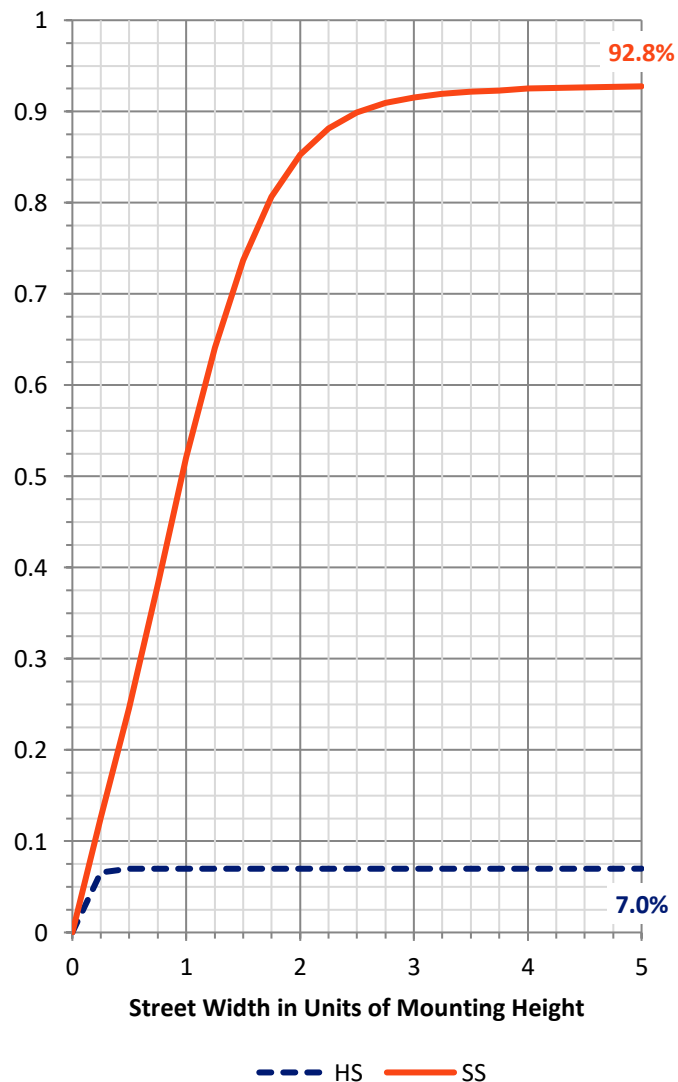
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	588.6	0.0	588.6
	% Fixture	7.0	0.0	7.0
Street Side	Lumens	7783.3	0.0	7783.3
	% Fixture	93.0	0.0	93.0
Total	Lumens	8371.9	0.0	8371.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	122.7	1.5
10°-20°	276.9	3.3
20°-30°	395.8	4.7
30°-40°	677.5	8.1
40°-50°	1222.8	14.6
50°-60°	2091.2	25.0
60°-70°	2573.9	30.7
70°-80°	973.1	11.6
80°-90°	38.0	0.5
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°	8371.9	100.0
0°-180°	8371.9	100.0

Coefficient of Utilization

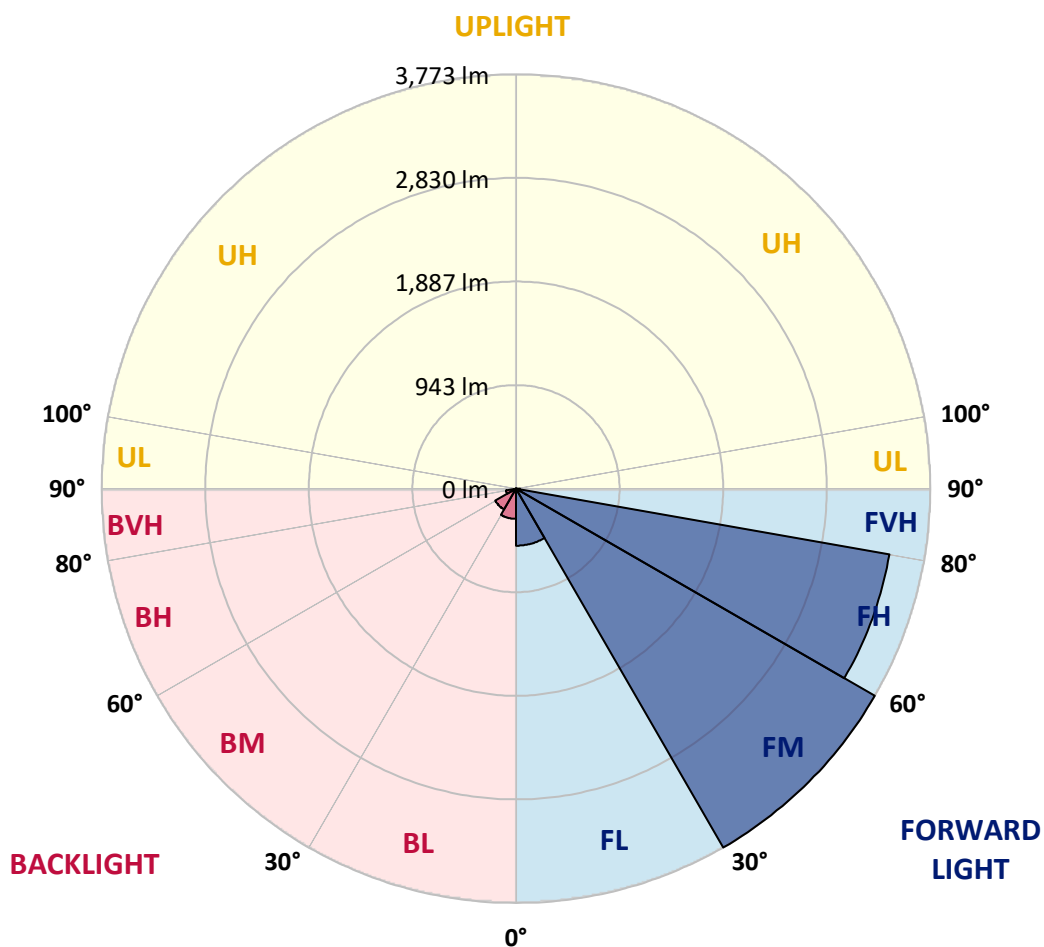


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	519.7	6.2			
FM (30°-60°)	3773.4	45.1			
FH (60°-80°)	3453.7	41.3			G2/5000
FVH (80°-90°)	36.5	0.4			G1/100
BL (0°-30°)	275.7	3.3	B1/500		
BM (30°-60°)	218.1	2.6	B0/220		
BH (60°-80°)	93.2	1.1	B0/110		G0/110
BVH (80°-90°)	1.5	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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	1340.9	1340.9	1340.9	1340.9	1340.9	1340.9	1340.9	1340.9	1340.9	1340.9	1340.9
2.5°	1233.4	1222.0	1233.4	1249.8	1258.7	1266.3	1292.8	1315.6	1339.6	1356.1	1351.0
5°	1143.6	1165.1	1167.6	1172.7	1186.6	1232.1	1247.3	1286.5	1346.0	1351.0	1373.8
7.5°	1072.7	1066.4	1082.8	1115.7	1151.2	1177.7	1222.0	1290.3	1352.3	1373.8	1418.1
10°	970.3	982.9	1000.6	1033.5	1076.5	1142.3	1220.7	1296.6	1385.2	1392.8	1475.0
12.5°	914.6	901.9	929.8	963.9	1037.3	1098.0	1194.2	1285.2	1405.4	1447.2	1542.0
15°	869.1	875.4	901.9	924.7	985.4	1062.6	1175.2	1313.1	1439.6	1468.7	1612.9
17.5°	850.1	846.3	866.5	889.3	963.9	1051.2	1167.6	1314.3	1469.9	1507.9	1661.0
20°	858.9	866.5	860.2	881.7	928.5	1017.1	1179.0	1338.4	1492.7	1544.6	1712.8
22.5°	998.1	988.0	937.4	896.9	899.4	1003.2	1170.1	1353.6	1512.9	1554.7	1748.2
25°	1361.1	1306.8	1181.5	1025.9	923.5	965.2	1160.0	1348.5	1509.2	1561.0	1769.7
27.5°	1726.7	1679.9	1557.2	1315.6	1020.9	950.0	1124.6	1352.3	1490.2	1538.2	1734.3
30°	2112.6	2137.9	1955.7	1668.5	1276.4	1033.5	1101.8	1332.1	1477.5	1518.0	1741.9
32.5°	2508.5	2498.4	2388.3	2077.1	1642.0	1218.2	1138.5	1352.3	1494.0	1533.2	1786.2
35°	2818.4	2783.0	2671.7	2390.9	1944.3	1496.5	1265.0	1448.4	1566.1	1612.9	1849.4
37.5°	2971.5	2986.7	2922.2	2678.0	2275.7	1754.6	1423.1	1448.4	1588.8	1643.2	1951.9
40°	3090.4	3136.0	3111.9	3033.5	2604.6	2045.5	1597.7	1538.2	1704.0	1806.4	2144.2
42.5°	3233.4	3211.9	3353.5	3281.4	3034.8	2412.4	1903.8	1752.0	1975.9	2074.6	2432.6
45°	3309.3	3391.5	3499.0	3591.4	3433.2	2870.3	2303.6	2130.3	2392.1	2517.4	2861.4
47.5°	3504.1	3537.0	3711.5	3827.9	3757.1	3394.0	2910.8	2683.1	2915.8	3113.2	3352.3
50°	3617.9	3573.6	3817.8	3994.9	4035.4	3827.9	3454.7	3277.6	3538.2	3790.0	3811.5
52.5°	3518.0	3644.5	3888.6	4206.1	4318.7	4215.0	4093.6	4016.4	4199.8	4432.6	4328.9
55°	3167.6	3253.6	3848.1	4437.6	4800.7	4752.6	4865.2	4814.6	4999.3	5246.0	4933.5
57.5°	2885.5	2993.0	3515.5	4557.8	5249.8	5391.5	5533.1	5501.5	5724.2	6008.8	5445.9
60°	2709.6	2771.6	3275.1	4527.5	5515.4	6051.8	6371.8	6149.2	6512.3	6729.8	5846.9
62.5°	2404.8	2444.0	2924.7	4125.2	5595.1	6518.6	7061.3	6758.9	7073.9	7339.6	6135.3
65°	1927.9	2034.1	2431.3	3523.0	5068.9	6604.6	7491.4	7135.9	7440.8	7615.3	6222.6
66°	1754.6	1831.7	2196.1	3204.3	4769.1	6461.7	7419.3	7214.3	7493.9	7653.3	6088.5
67.5°	1456.0	1523.1	1812.8	2750.1	4155.5	6146.7	7469.9	7161.2	7534.4	7437.0	5908.8
70°	963.9	1006.9	1239.7	1859.6	2894.3	5028.4	6928.4	6746.3	6623.6	6258.0	4619.8
72.5°	450.3	512.3	774.2	1127.1	1697.6	3518.0	5649.5	5405.4	4645.1	4060.7	2914.6
75°	203.7	231.5	425.0	646.4	761.5	1822.9	3644.5	3291.5	2312.4	1920.3	1276.4
77.5°	110.1	125.2	207.5	307.4	277.0	638.8	1803.9	1500.3	728.6	533.8	370.6
80°	84.8	99.9	173.3	175.8	102.5	165.7	670.5	464.3	182.2	137.9	88.6
82.5°	44.3	63.3	136.6	113.9	51.9	67.0	207.5	129.0	56.9	45.5	38.0
85°	17.7	27.8	77.2	75.9	30.4	22.8	58.2	39.2	22.8	19.0	17.7
87.5°	1.3	1.3	41.7	29.1	19.0	6.3	8.9	8.9	11.4	10.1	12.7
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°	1340.9	1340.9	1340.9	1340.9	1340.9	1340.9	1340.9	1340.9	1340.9	1340.9	1340.9
2.5°	1373.8	1389.0	1391.5	1433.3	1442.1	1433.3	1456.0	1452.2	1462.3	1454.8	1440.8
5°	1405.4	1426.9	1468.7	1500.3	1500.3	1475.0	1454.8	1428.2	1389.0	1378.9	1371.3
7.5°	1459.8	1528.1	1566.1	1545.8	1505.4	1410.5	1278.9	1182.8	1101.8	1071.5	1057.5
10°	1556.0	1593.9	1638.2	1556.0	1387.7	1186.6	965.2	819.7	705.9	680.6	661.6
12.5°	1617.9	1678.7	1704.0	1500.3	1170.1	870.3	630.0	465.5	385.8	325.1	315.0
15°	1698.9	1768.5	1716.6	1349.8	922.2	570.5	326.4	203.7	165.7	155.6	155.6
17.5°	1754.6	1830.5	1664.7	1162.5	654.0	303.6	161.9	140.4	137.9	139.2	136.6
20°	1852.0	1897.5	1586.3	945.0	390.9	155.6	130.3	125.2	122.7	126.5	124.0
22.5°	1888.7	1930.4	1458.6	684.4	175.8	103.7	97.4	93.6	96.1	94.9	93.6
25°	1886.1	1907.6	1248.6	392.2	51.9	40.5	36.7	36.7	34.2	35.4	34.2
27.5°	1905.1	1852.0	1013.3	116.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30°	1915.2	1762.2	721.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	1920.3	1715.3	464.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35°	1959.5	1621.7	198.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	1986.1	1501.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	2096.1	1463.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	2239.1	1392.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	2437.7	1287.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	2700.8	1225.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	2896.9	1128.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	3146.1	1070.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	3442.1	1072.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	3711.5	1055.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	3849.4	901.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	3820.3	729.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	3719.1	573.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	3649.5	507.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	3438.3	406.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	2736.2	278.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	1740.6	170.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	802.0	78.4	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	251.7	48.1	10.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	65.8	30.4	10.1	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	34.2	21.5	8.9	3.8	2.5	0.0	0.0	0.0	0.0	0.0	0.0
85°	21.5	8.9	3.8	2.5	2.5	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	19.0	5.1	2.5	2.5	1.3	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)