

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: P482793

Luminaire Tested: **IFLD-S-SA2B-735-U-T3R-HSS**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P482793
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2B-735-U-T3R-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R
distribution lens with House Side Shield
Light Source: (32) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

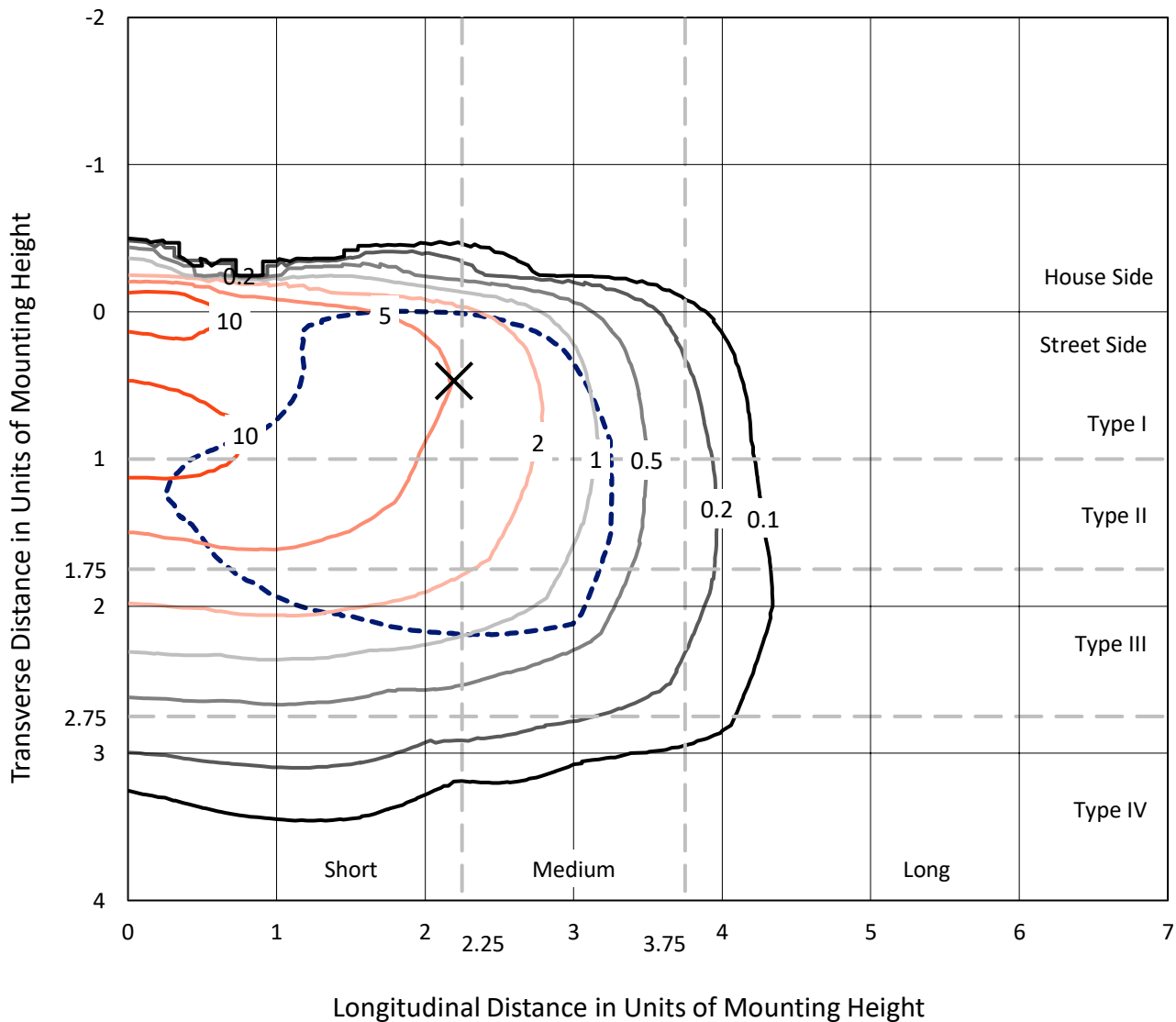
Lumens per Lamp: N/A
Luminaire Lumens: 8072.3 lumens
Efficiency: N/A
Efficacy: 98.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 82.4
Input Voltage (V): 120
Input Current (A_{in}): 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

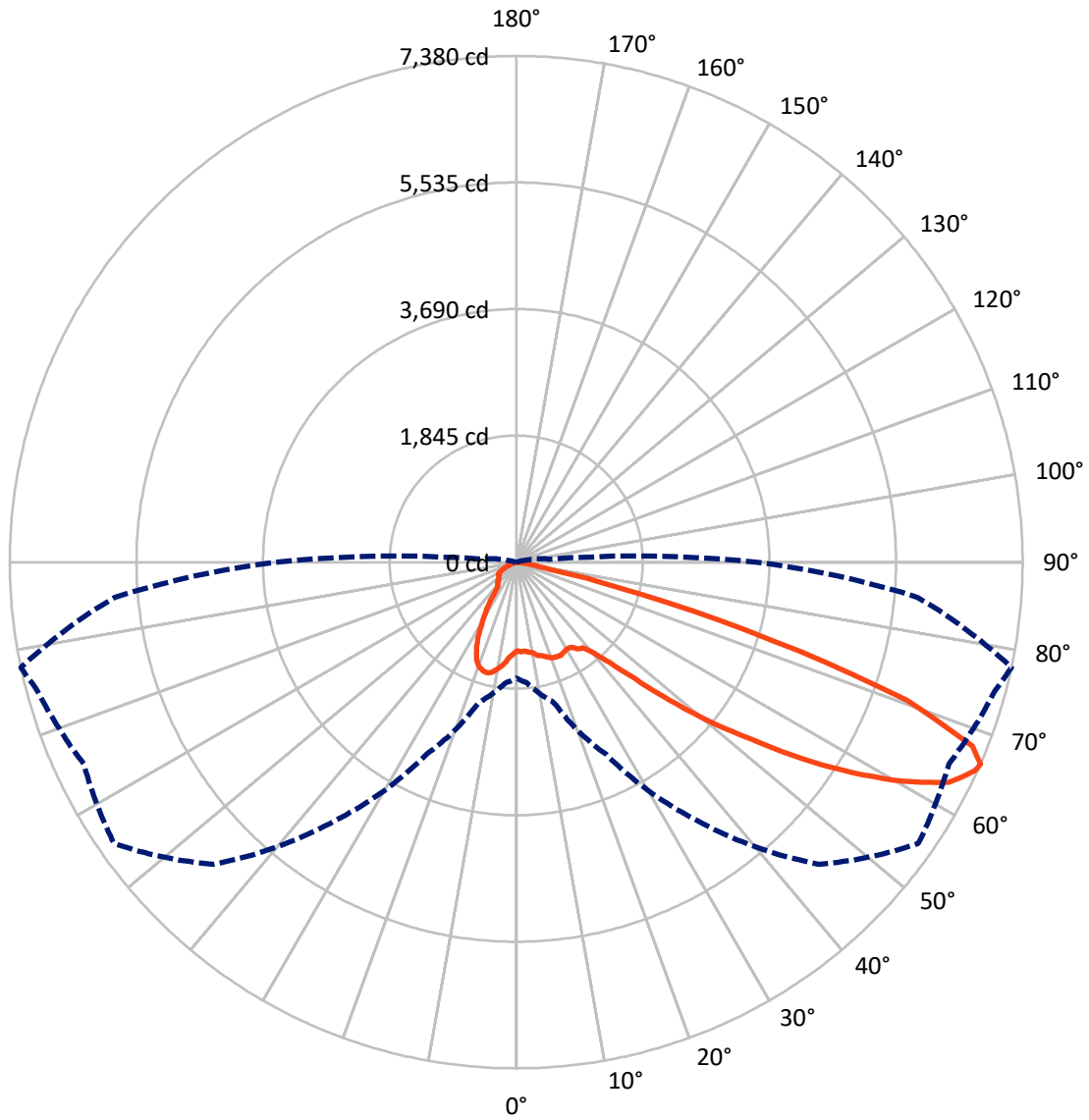
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 14.7 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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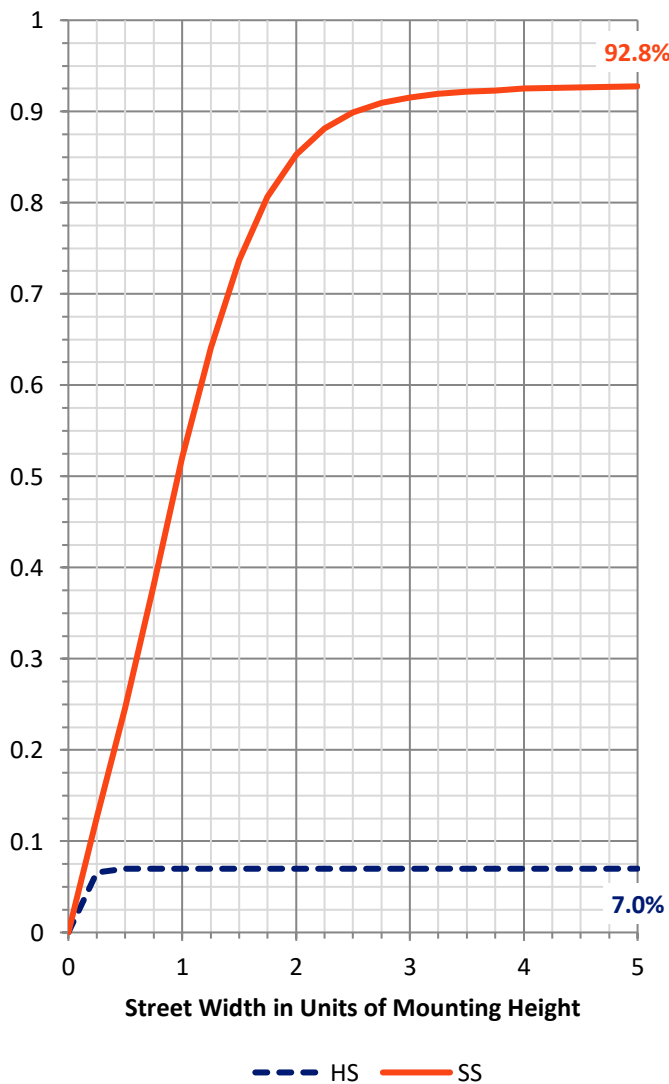
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	567.5	0.0	567.5
	% Fixture	7.0	0.0	7.0
Street Side	Lumens	7504.8	0.0	7504.8
	% Fixture	93.0	0.0	93.0
Total	Lumens	8072.3	0.0	8072.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	118.3	1.5
10°-20°	267.0	3.3
20°-30°	381.6	4.7
30°-40°	653.3	8.1
40°-50°	1179.1	14.6
50°-60°	2016.4	25.0
60°-70°	2481.8	30.7
70°-80°	938.3	11.6
80°-90°	36.6	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°	8072.3	100.0
0°-180°	8072.3	100.0

Coefficient of Utilization



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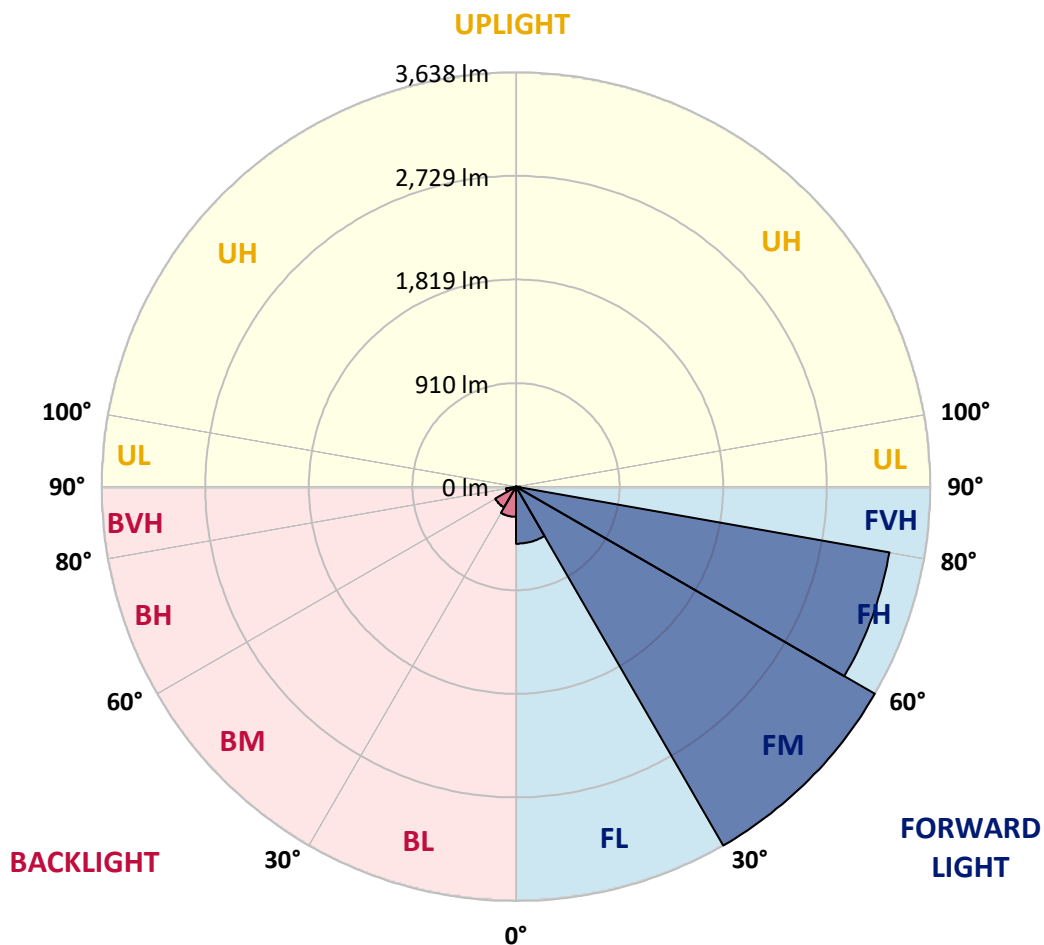
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	501.1	6.2			
FM (30°-60°)	3638.4	45.1			
FH (60°-80°)	3330.1	41.3			G2/5000
FVH (80°-90°)	35.2	0.4			G1/100
BL (0°-30°)	265.8	3.3	B1/500		
BM (30°-60°)	210.3	2.6	B0/220		
BH (60°-80°)	89.9	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°	1292.9	1292.9	1292.9	1292.9	1292.9	1292.9	1292.9	1292.9	1292.9	1292.9	1292.9
2.5°	1189.3	1178.3	1189.3	1205.1	1213.6	1221.0	1246.6	1268.5	1291.7	1307.6	1302.7
5°	1102.6	1123.4	1125.8	1130.7	1144.1	1188.0	1202.7	1240.5	1297.8	1302.7	1324.6
7.5°	1034.3	1028.2	1044.1	1075.8	1110.0	1135.6	1178.3	1244.1	1303.9	1324.6	1367.3
10°	935.5	947.7	964.8	996.5	1038.0	1101.4	1177.1	1250.2	1335.6	1342.9	1422.2
12.5°	881.9	869.7	896.5	929.4	1000.2	1058.7	1151.4	1239.3	1355.1	1395.4	1486.9
15°	838.0	844.1	869.7	891.6	950.2	1024.6	1133.1	1266.1	1388.1	1416.1	1555.2
17.5°	819.7	816.0	835.5	857.5	929.4	1013.6	1125.8	1267.3	1417.3	1453.9	1601.5
20°	828.2	835.5	829.4	850.2	895.3	980.7	1136.8	1290.5	1439.3	1489.3	1651.5
22.5°	962.4	952.6	903.8	864.8	867.2	967.3	1128.3	1305.1	1458.8	1499.1	1685.7
25°	1312.4	1260.0	1139.2	989.2	890.4	930.7	1118.5	1300.2	1455.2	1505.2	1706.4
27.5°	1665.0	1619.8	1501.5	1268.5	984.3	916.0	1084.4	1303.9	1436.9	1483.2	1672.3
30°	2037.0	2061.4	1885.7	1608.8	1230.7	996.5	1062.4	1284.4	1424.7	1463.7	1679.6
32.5°	2418.8	2409.0	2302.9	2002.8	1583.2	1174.6	1097.8	1303.9	1440.5	1478.3	1722.3
35°	2717.6	2683.4	2576.1	2305.3	1874.7	1443.0	1219.7	1396.6	1510.0	1555.2	1783.3
37.5°	2865.2	2879.8	2817.6	2582.2	2194.3	1691.8	1372.2	1396.6	1532.0	1584.4	1882.1
40°	2979.8	3023.7	3000.6	2924.9	2511.5	1972.3	1540.5	1483.2	1643.0	1741.8	2067.5
42.5°	3117.7	3096.9	3233.5	3164.0	2926.2	2326.1	1835.7	1689.3	1905.2	2000.4	2345.6
45°	3190.8	3270.1	3373.8	3462.9	3310.4	2767.6	2221.2	2054.0	2306.5	2427.3	2759.1
47.5°	3378.7	3410.4	3578.7	3690.9	3622.6	3272.6	2806.6	2587.1	2811.5	3001.8	3232.3
50°	3488.5	3445.8	3681.2	3852.0	3891.0	3690.9	3331.1	3160.4	3411.6	3654.4	3675.1
52.5°	3392.1	3514.1	3749.5	4055.6	4164.2	4064.2	3947.1	3872.7	4049.5	4274.0	4174.0
55°	3054.2	3137.2	3710.5	4278.9	4628.9	4582.6	4691.1	4642.3	4820.4	5058.3	4757.0
57.5°	2782.2	2885.9	3389.7	4394.7	5061.9	5198.5	5335.2	5304.7	5519.3	5793.8	5251.0
60°	2612.7	2672.5	3157.9	4365.5	5318.1	5835.3	6143.8	5929.2	6279.2	6489.0	5637.7
62.5°	2318.7	2356.5	2820.0	3977.6	5394.9	6285.3	6808.6	6517.1	6820.8	7077.0	5915.8
65°	1858.9	1961.3	2344.3	3397.0	4887.5	6368.3	7223.3	6880.6	7174.5	7342.9	5999.9
66°	1691.8	1766.2	2117.5	3089.6	4598.4	6230.5	7153.8	6956.2	7225.8	7379.5	5870.6
67.5°	1403.9	1468.6	1747.9	2651.7	4006.9	5926.7	7202.6	6905.0	7264.8	7170.9	5697.4
70°	929.4	970.9	1195.3	1793.0	2790.8	4848.5	6680.5	6504.9	6386.6	6034.1	4454.5
72.5°	434.2	494.0	746.5	1086.8	1636.9	3392.1	5447.4	5212.0	4478.9	3915.4	2810.3
75°	196.4	223.2	409.8	623.3	734.3	1757.7	3514.1	3173.8	2229.7	1851.6	1230.7
77.5°	106.1	120.8	200.0	296.4	267.1	616.0	1739.4	1446.6	702.6	514.7	357.4
80°	81.7	96.4	167.1	169.5	98.8	159.8	646.5	447.6	175.6	133.0	85.4
82.5°	42.7	61.0	131.7	109.8	50.0	64.6	200.0	124.4	54.9	43.9	36.6
85°	17.1	26.8	74.4	73.2	29.3	22.0	56.1	37.8	22.0	18.3	17.1
87.5°	1.2	1.2	40.3	28.1	18.3	6.1	8.5	8.5	11.0	9.8	12.2
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°	1292.9	1292.9	1292.9	1292.9	1292.9	1292.9	1292.9	1292.9	1292.9	1292.9	1292.9
2.5°	1324.6	1339.3	1341.7	1382.0	1390.5	1382.0	1403.9	1400.3	1410.0	1402.7	1389.3
5°	1355.1	1375.9	1416.1	1446.6	1446.6	1422.2	1402.7	1377.1	1339.3	1329.5	1322.2
7.5°	1407.6	1473.5	1510.0	1490.5	1451.5	1360.0	1233.2	1140.5	1062.4	1033.1	1019.7
10°	1500.3	1536.9	1579.6	1500.3	1338.1	1144.1	930.7	790.4	680.6	656.2	637.9
12.5°	1560.1	1618.6	1643.0	1446.6	1128.3	839.2	607.4	448.9	372.0	313.5	303.7
15°	1638.1	1705.2	1655.2	1301.5	889.2	550.1	314.7	196.4	159.8	150.0	150.0
17.5°	1691.8	1765.0	1605.2	1120.9	630.6	292.7	156.1	135.4	133.0	134.2	131.7
20°	1785.7	1829.6	1529.6	911.1	376.9	150.0	125.6	120.8	118.3	122.0	119.5
22.5°	1821.1	1861.3	1406.4	659.9	169.5	100.0	93.9	90.3	92.7	91.5	90.3
25°	1818.6	1839.4	1203.9	378.1	50.0	39.0	35.4	35.4	32.9	34.2	32.9
27.5°	1836.9	1785.7	977.0	112.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30°	1846.7	1699.1	695.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	1851.6	1654.0	447.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35°	1889.4	1563.7	191.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	1915.0	1447.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	2021.1	1411.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	2158.9	1342.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	2350.4	1241.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	2604.2	1181.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	2793.2	1088.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	3033.5	1031.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	3318.9	1034.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	3578.7	1017.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	3711.7	869.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	3683.6	703.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	3586.0	552.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	3519.0	489.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	3315.3	391.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	2638.3	268.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	1678.4	164.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	773.3	75.6	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	242.7	46.4	9.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	63.4	29.3	9.8	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	32.9	20.7	8.5	3.7	2.4	0.0	0.0	0.0	0.0	0.0	0.0
85°	20.7	8.5	3.7	2.4	2.4	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	18.3	4.9	2.4	2.4	1.2	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)