

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: P481624

Luminaire Tested: **IFLD-S-SA2C-735-U-T2-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P481624  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA2C-735-U-T2-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens with House Side Shield  
Light Source: (32) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

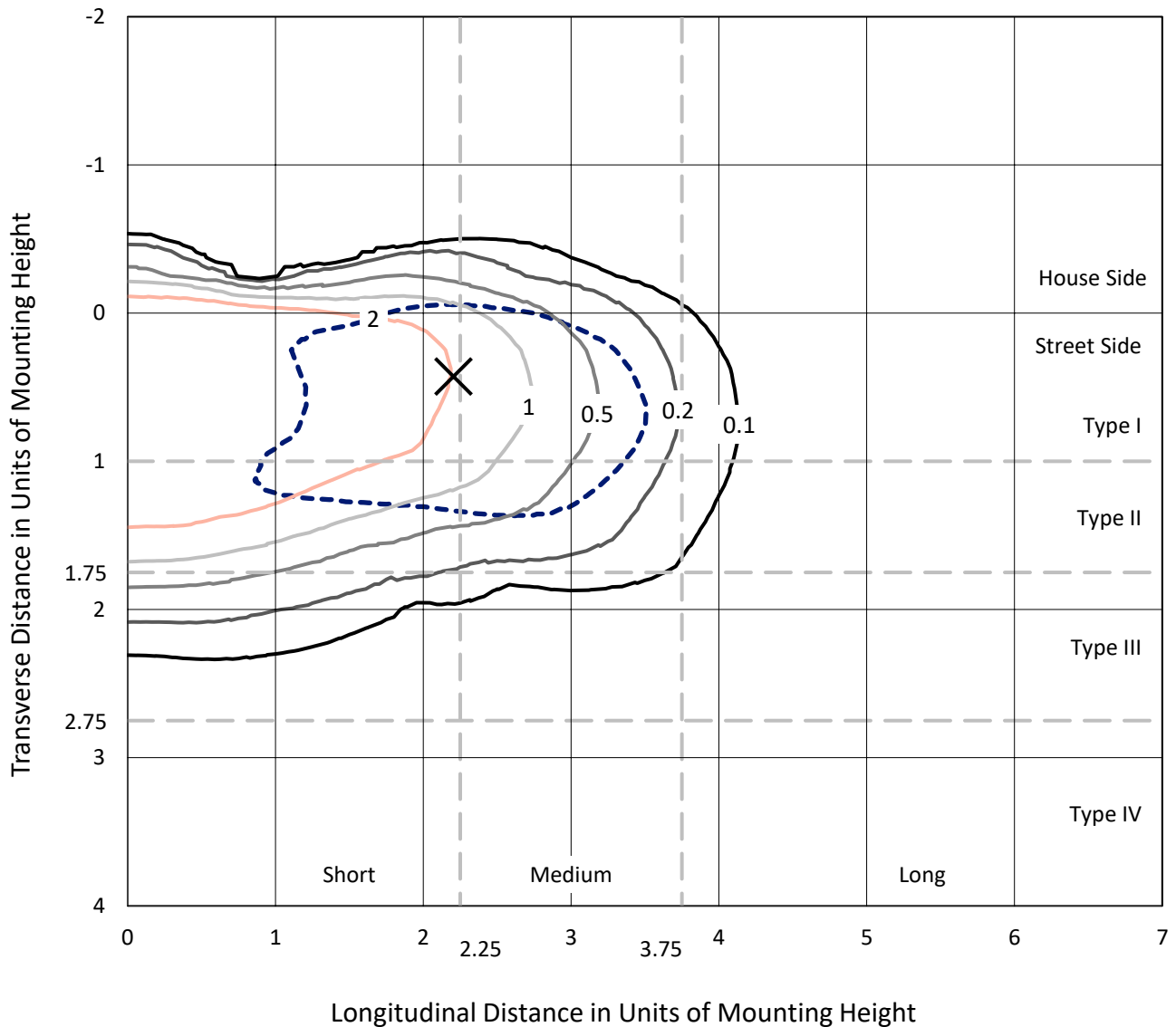
Lumens per Lamp: N/A  
Luminaire Lumens: 10095.4 lumens  
Efficiency: N/A  
Efficacy: 93.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G2

Input Watts (W): 108.2  
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

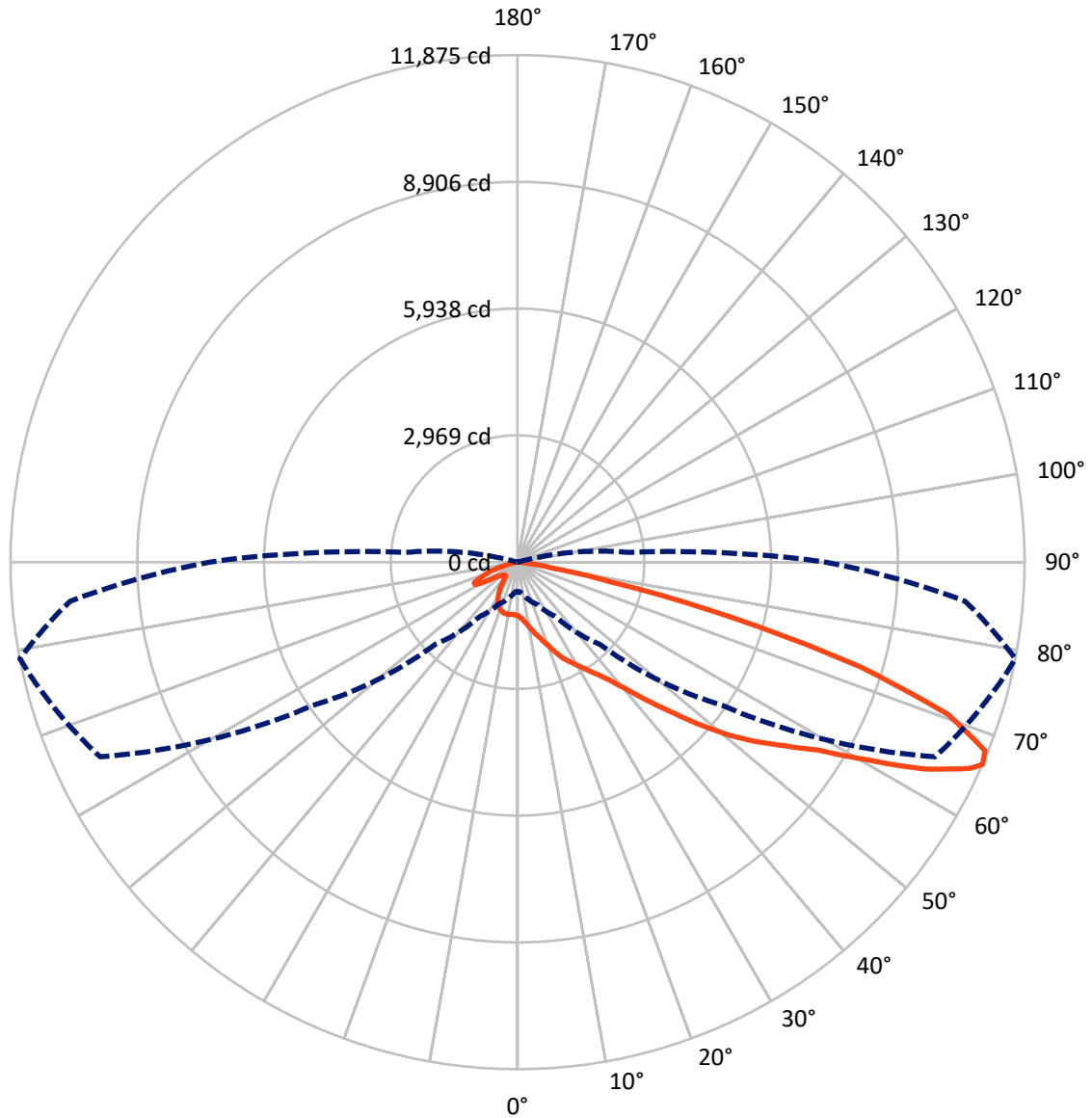
× Max cd  
 - - - 1/2 Max cd



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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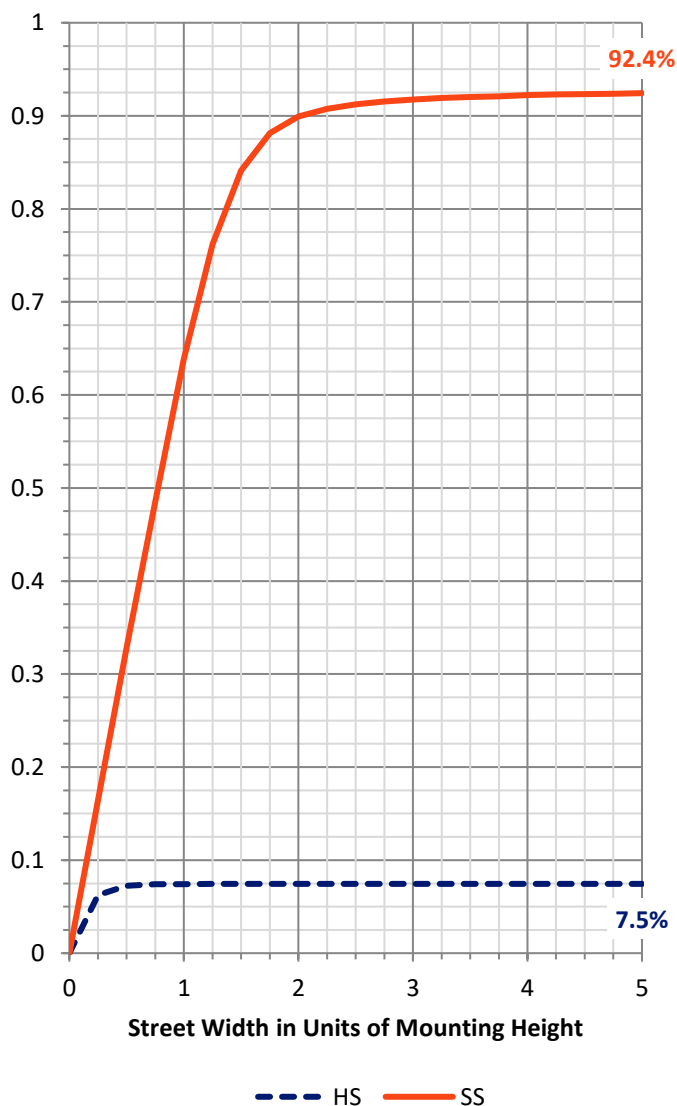
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	758.0	0.0	758.0
	% Fixture	7.5	0.0	7.5
<b>Street Side</b>	Lumens	9337.4	0.0	9337.4
	% Fixture	92.5	0.0	92.5
<b>Total</b>	Lumens	10095.4	0.0	10095.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	118.8	1.2
10°-20°	326.9	3.2
20°-30°	543.1	5.4
30°-40°	932.8	9.2
40°-50°	1689.9	16.7
50°-60°	2671.2	26.5
60°-70°	2718.1	26.9
70°-80°	1036.6	10.3
80°-90°	58.1	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°	10095.4	100.0
0°-180°	10095.4	100.0

**Coefficient of Utilization**



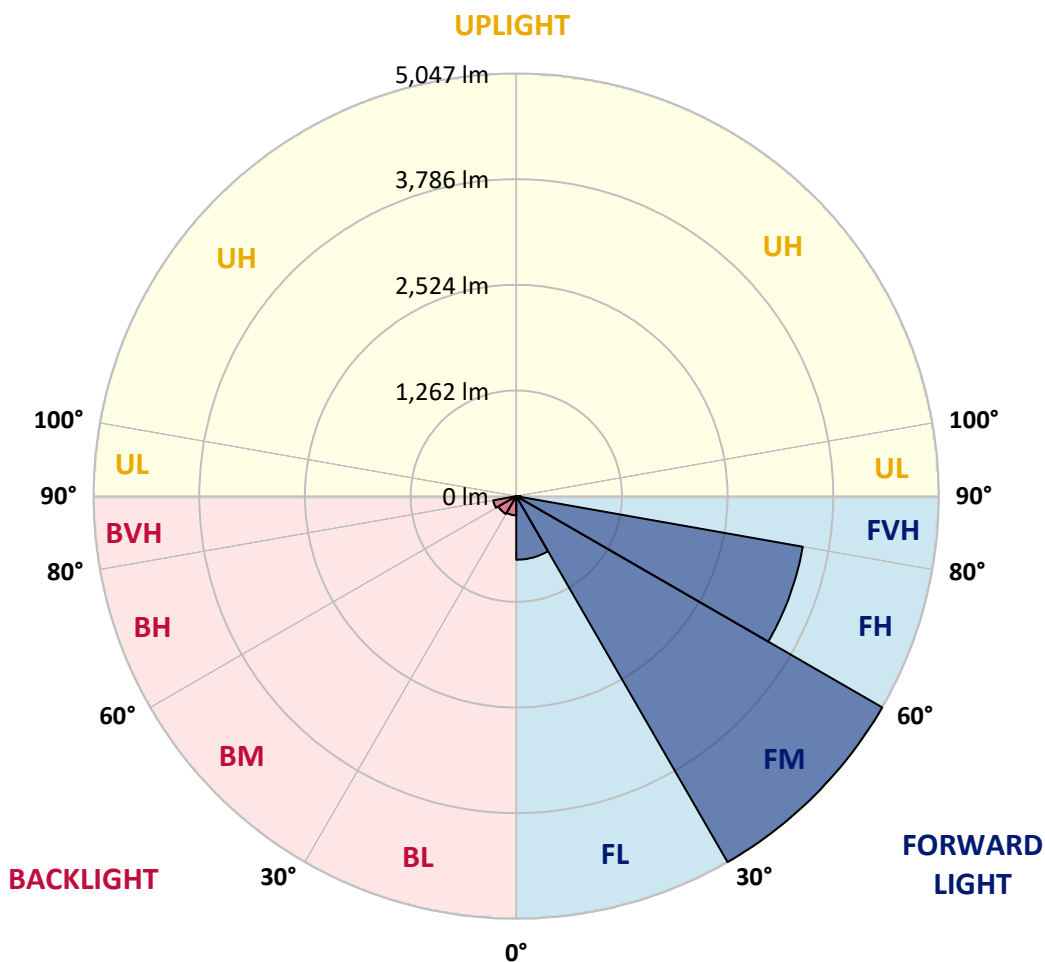
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	759.5	7.5			
FM (30°-60°)	5047.5	50.0			
FH (60°-80°)	3475.2	34.4			G2/5000
FVH (80°-90°)	55.1	0.5			G1/100
BL (0°-30°)	229.2	2.3	B1/500		
BM (30°-60°)	246.4	2.4	B1/1000		
BH (60°-80°)	279.4	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°	1256.0	1256.0	1256.0	1256.0	1256.0	1256.0	1256.0	1256.0	1256.0	1256.0	1256.0
2.5°	1422.5	1421.0	1414.7	1403.8	1389.8	1385.2	1364.9	1336.9	1321.4	1304.2	1296.5
5°	1520.6	1512.8	1531.5	1523.7	1526.8	1489.4	1464.5	1444.3	1385.2	1361.8	1324.5
7.5°	1542.4	1550.1	1548.6	1561.0	1573.5	1587.5	1570.4	1540.8	1481.7	1447.4	1407.0
10°	1542.4	1539.2	1551.7	1568.8	1604.6	1635.7	1682.4	1643.5	1598.4	1557.9	1484.8
12.5°	1514.3	1509.7	1522.1	1557.9	1621.7	1685.5	1736.9	1774.3	1710.4	1677.8	1582.8
15°	1428.7	1424.1	1475.4	1539.2	1623.3	1727.6	1835.0	1895.7	1852.1	1800.7	1694.9
17.5°	1322.9	1329.1	1383.6	1489.4	1623.3	1747.8	1884.8	2017.0	2010.8	1945.5	1835.0
20°	1287.1	1291.8	1346.3	1422.5	1575.0	1761.8	1962.6	2149.3	2186.7	2108.9	1964.1
22.5°	1355.6	1350.9	1355.6	1402.3	1542.4	1749.4	2013.9	2300.3	2367.2	2306.5	2133.8
25°	1589.0	1585.9	1547.0	1475.4	1523.7	1721.3	2040.4	2399.9	2554.0	2498.0	2270.7
27.5°	1931.4	1919.0	1858.3	1708.9	1610.8	1738.5	2084.0	2496.4	2717.4	2653.6	2393.7
30°	2298.8	2269.2	2189.8	2003.0	1836.5	1802.3	2108.9	2568.0	2899.5	2818.6	2501.1
32.5°	2552.4	2591.3	2566.4	2376.6	2121.3	1950.1	2149.3	2658.3	3067.6	3014.7	2684.7
35°	2944.6	2989.8	2885.5	2717.4	2460.6	2185.1	2234.9	2731.4	3326.0	3237.2	2855.9
37.5°	3439.6	3473.8	3399.1	3080.0	2809.2	2474.6	2410.8	2883.9	3548.5	3506.5	3075.4
40°	3688.6	3853.6	3747.7	3459.8	3168.8	2879.3	2701.9	3062.9	3936.0	3901.8	3378.9
42.5°	4032.5	4115.0	4060.6	3847.3	3543.8	3311.9	3061.4	3411.6	4406.1	4406.1	3789.8
45°	4396.7	4399.8	4396.7	4222.4	3953.2	3833.3	3547.0	3848.9	4911.9	4967.9	4281.6
47.5°	4695.6	4788.9	4781.2	4676.9	4468.3	4423.2	4032.5	4346.9	5546.9	5644.9	4760.9
50°	4849.6	4953.9	4985.0	5039.5	5030.2	5125.1	4563.3	4924.3	6094.7	6336.0	5377.2
52.5°	4807.6	4815.4	5006.8	5221.6	5564.0	5830.1	5202.9	5579.6	6736.0	6974.1	5853.5
55°	4463.7	4434.1	4827.8	5073.8	5781.9	6261.3	6088.5	6396.7	7235.5	7598.2	6345.3
57.5°	3708.8	3716.6	4080.8	4580.4	5620.0	6432.5	7034.8	7464.3	7935.9	8301.7	7036.3
60°	2560.2	2550.9	2958.7	3536.1	4669.1	6113.4	7579.5	8847.9	8872.8	9391.1	8276.8
62.5°	1439.6	1442.8	1752.5	2245.8	3266.8	4995.9	7553.0	10317.1	10211.3	10665.8	9686.8
65°	815.5	835.8	1049.0	1330.7	1956.4	3354.0	6496.3	10902.3	11243.2	11647.8	10542.8
66°	689.5	703.5	885.6	1098.8	1561.0	2720.5	5847.3	10788.7	11566.9	11875.1	10525.7
67.5°	533.8	552.5	705.0	871.6	1145.5	1883.2	4706.4	10223.8	11626.1	11806.6	10228.4
70°	365.7	378.2	494.9	661.5	782.9	963.4	2813.9	8452.6	10549.0	10701.6	8890.0
72.5°	256.8	263.0	347.1	501.1	602.3	551.0	1396.1	6013.8	8072.9	8370.1	6914.9
75°	185.2	191.4	238.1	359.5	470.0	361.1	639.7	3841.1	4950.8	5184.3	4164.8
77.5°	133.8	141.6	161.9	231.9	340.8	253.7	314.4	2006.2	2334.5	2294.1	1791.4
80°	80.9	88.7	119.8	149.4	249.0	179.0	172.8	837.3	828.0	786.0	563.4
82.5°	37.4	43.6	63.8	101.2	174.3	124.5	82.5	298.8	261.5	239.7	158.7
85°	10.9	14.0	37.4	76.3	88.7	60.7	49.8	102.7	107.4	91.8	52.9
87.5°	0.0	1.6	17.1	18.7	26.5	20.2	18.7	26.5	49.8	40.5	17.1
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°	1256.0	1256.0	1256.0	1256.0	1256.0	1256.0	1256.0	1256.0	1256.0	1256.0	1256.0
2.5°	1268.4	1257.5	1231.1	1190.6	1154.8	1136.1	1109.7	1086.3	1073.9	1072.3	1070.8
5°	1299.6	1270.0	1206.2	1133.0	1078.6	1019.4	979.0	949.4	921.4	894.9	910.5
7.5°	1341.6	1294.9	1190.6	1095.7	977.4	901.1	829.5	787.5	762.6	739.3	736.2
10°	1407.0	1347.8	1179.7	1008.5	873.1	761.1	687.9	627.2	593.0	552.5	568.1
12.5°	1495.7	1389.8	1139.3	929.2	754.8	636.6	532.3	434.2	379.8	337.7	339.3
15°	1584.4	1445.9	1101.9	832.7	647.4	491.8	339.3	272.4	256.8	247.5	250.6
17.5°	1671.5	1491.0	1044.3	734.6	524.5	312.8	247.5	233.5	225.7	216.3	216.3
20°	1777.4	1520.6	972.7	644.3	361.1	231.9	211.7	202.3	189.9	177.4	179.0
22.5°	1880.1	1545.5	890.2	529.2	242.8	200.8	177.4	165.0	154.1	141.6	141.6
25°	1982.8	1553.3	782.9	379.8	196.1	160.3	138.5	121.4	110.5	99.6	101.2
27.5°	2052.8	1505.0	681.7	242.8	157.2	121.4	96.5	82.5	73.1	62.3	62.3
30°	2093.3	1416.3	572.7	171.2	118.3	82.5	57.6	43.6	34.2	26.5	24.9
32.5°	2133.8	1344.7	449.8	130.7	77.8	43.6	21.8	7.8	0.0	0.0	0.0
35°	2214.7	1263.8	301.9	73.1	26.5	1.6	0.0	0.0	0.0	0.0	0.0
37.5°	2266.1	1151.7	138.5	10.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	2395.2	1095.7	34.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	2605.4	1056.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	2835.7	1041.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	3142.3	1083.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	3466.0	1196.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	3820.9	1304.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	4130.6	1433.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	4700.2	1738.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	5722.8	2337.7	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	6874.5	2782.8	17.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	7296.2	2771.9	29.6	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	7221.5	2619.4	29.6	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	6834.0	2326.8	26.5	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	5869.1	1922.1	26.5	4.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	4474.6	1497.2	24.9	6.2	1.6	0.0	0.0	0.0	0.0	0.0	0.0
75°	2700.3	796.9	20.2	7.8	3.1	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	1075.4	280.1	15.6	6.2	3.1	0.0	0.0	0.0	0.0	0.0	0.0
80°	291.0	84.0	9.3	6.2	4.7	1.6	0.0	0.0	0.0	0.0	0.0
82.5°	76.3	31.1	7.8	6.2	3.1	1.6	0.0	0.0	0.0	0.0	0.0
85°	29.6	12.5	6.2	4.7	4.7	3.1	1.6	0.0	0.0	0.0	0.0
87.5°	9.3	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)