

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: P483458

Luminaire Tested: **IFLD-S-SA2D-722-U-T4W-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P483458
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2D-722-U-T4W-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens with House Side Shield
Light Source: (32) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

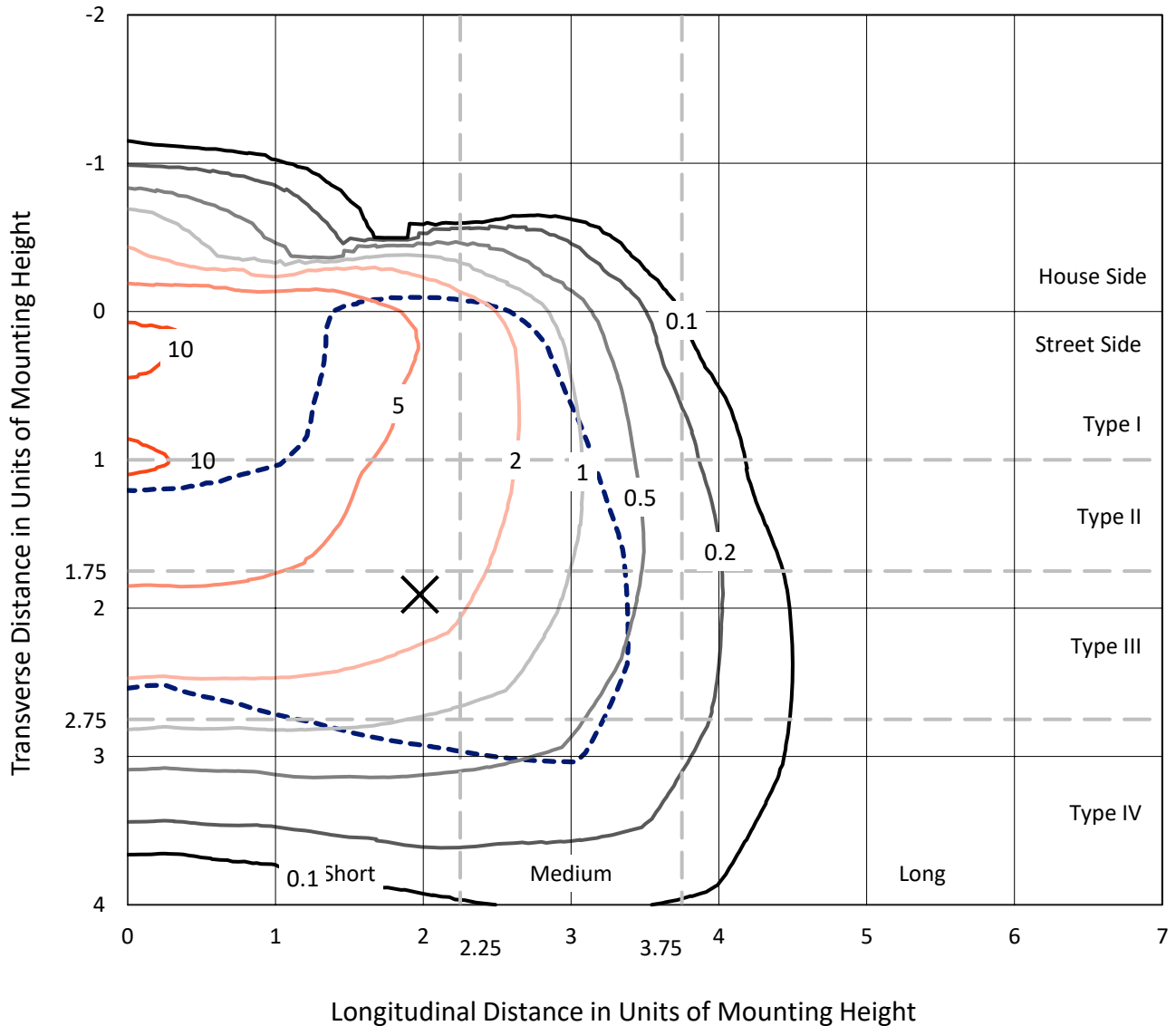
Lumens per Lamp: N/A
Luminaire Lumens: 8499.9 lumens
Efficiency: N/A
Efficacy: 68.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 123.9
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

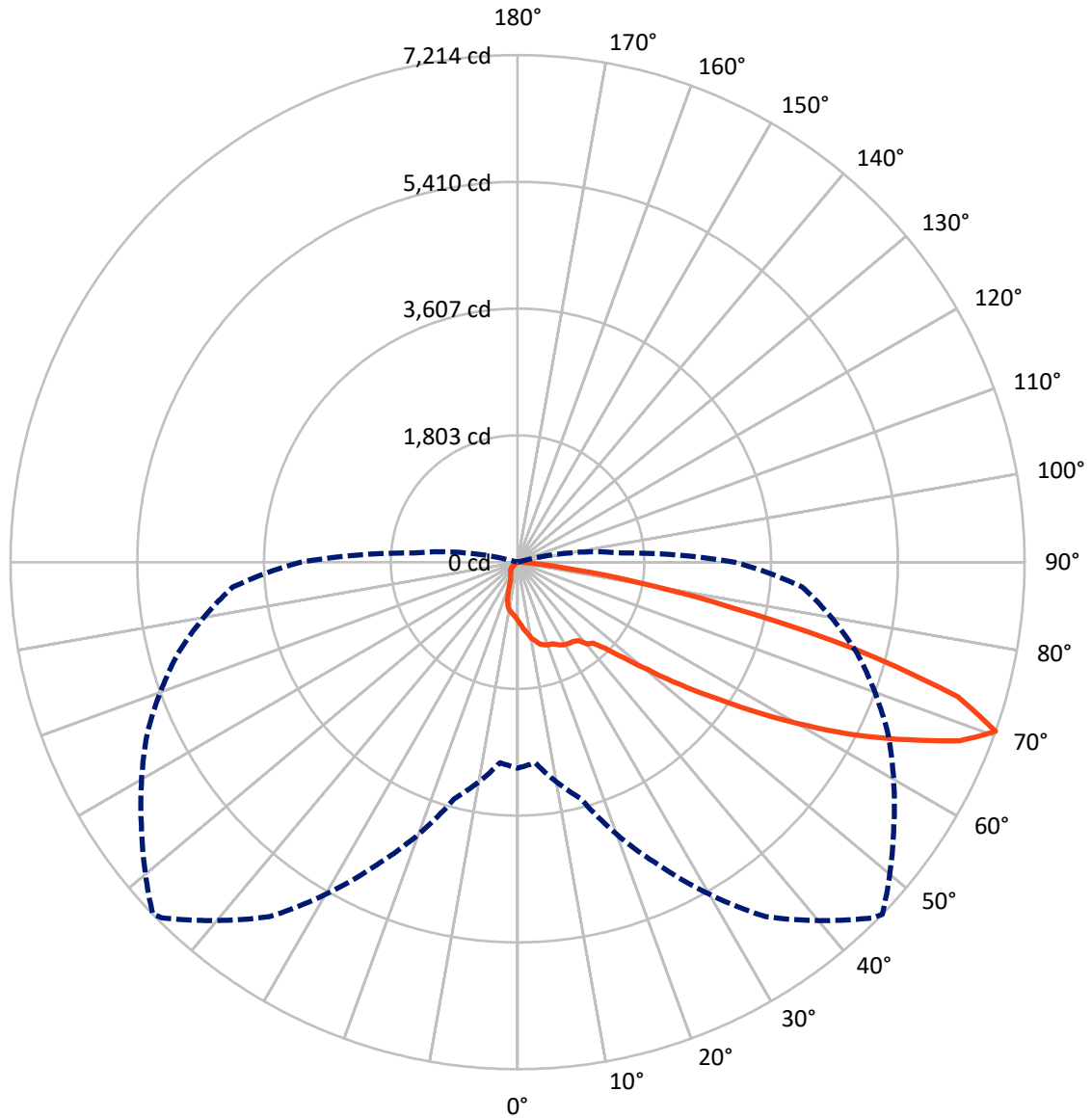
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 12.2 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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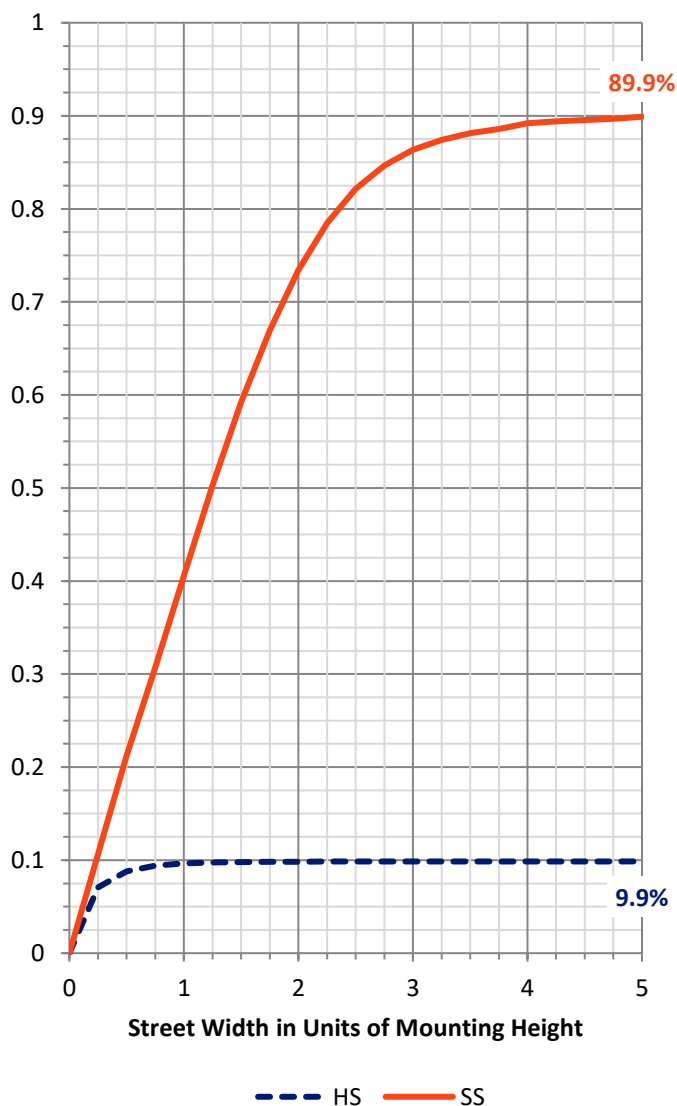
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	845.8	0.0	845.8
	% Fixture	10.0	0.0	10.0
Street Side	Lumens	7654.2	0.0	7654.2
	% Fixture	90.0	0.0	90.0
Total	Lumens	8499.9	0.0	8499.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.2	1.0
10°-20°	251.3	3.0
20°-30°	402.5	4.7
30°-40°	574.5	6.8
40°-50°	992.0	11.7
50°-60°	1899.2	22.3
60°-70°	2812.4	33.1
70°-80°	1392.9	16.4
80°-90°	92.0	1.1
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°	8499.9	100.0
0°-180°	8499.9	100.0

Coefficient of Utilization



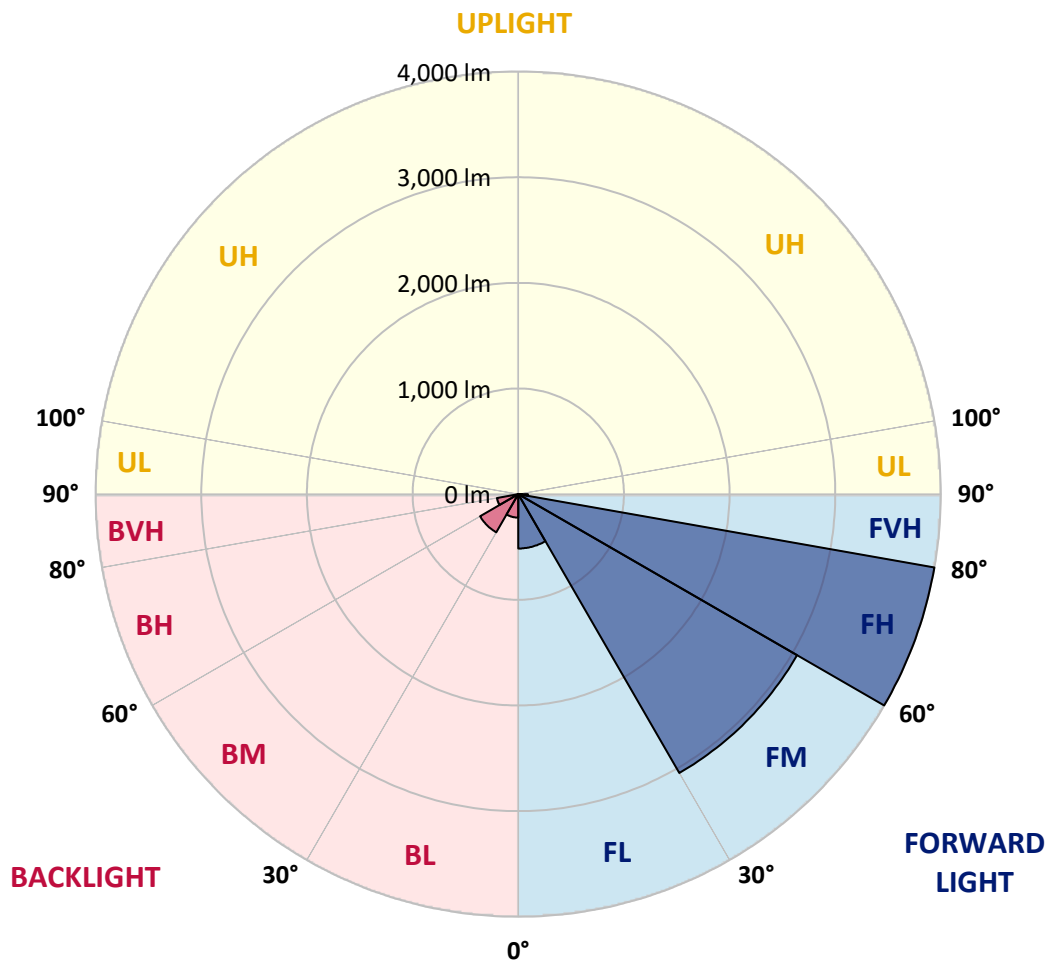
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	514.7	6.1			
FM (30°-60°)	3048.1	35.9			
FH (60°-80°)	4000.5	47.1			G2/5000
FVH (80°-90°)	90.9	1.1			G1/100
BL (0°-30°)	222.2	2.6	B1/500		
BM (30°-60°)	417.6	4.9	B1/1000		
BH (60°-80°)	204.8	2.4	B1/500		G1/500
BVH (80°-90°)	1.2	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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	834.4	834.4	834.4	834.4	834.4	834.4	834.4	834.4	834.4	834.4	834.4
2.5°	931.1	925.0	915.2	911.5	901.7	896.8	889.5	885.8	872.4	858.9	850.3
5°	1044.9	1030.2	1035.1	1020.4	988.6	962.9	961.7	933.5	902.9	878.5	845.4
7.5°	1159.9	1147.6	1129.3	1108.5	1073.0	1035.1	1024.1	997.2	954.3	911.5	867.5
10°	1246.7	1238.2	1222.3	1192.9	1144.0	1101.2	1102.4	1057.1	1011.8	962.9	902.9
12.5°	1300.6	1304.3	1281.0	1251.6	1208.8	1155.0	1153.8	1123.2	1071.8	1020.4	949.4
15°	1354.4	1367.9	1332.4	1298.1	1243.1	1203.9	1211.3	1174.6	1124.4	1065.7	987.4
17.5°	1363.0	1366.7	1359.3	1309.1	1268.8	1235.7	1237.0	1212.5	1174.6	1110.9	1043.6
20°	1348.3	1345.9	1337.3	1300.6	1273.7	1254.1	1255.3	1249.2	1228.4	1177.0	1085.2
22.5°	1305.5	1305.5	1294.5	1270.0	1257.8	1276.1	1261.4	1284.7	1262.7	1232.1	1156.2
25°	1271.2	1284.7	1278.6	1262.7	1267.5	1292.0	1299.4	1321.4	1317.7	1279.8	1205.1
27.5°	1307.9	1292.0	1295.7	1277.3	1295.7	1332.4	1336.1	1352.0	1350.7	1320.2	1249.2
30°	1332.4	1347.1	1318.9	1278.6	1298.1	1360.5	1358.1	1378.9	1388.7	1352.0	1290.8
32.5°	1410.7	1398.5	1375.2	1321.4	1323.8	1359.3	1370.3	1397.2	1403.4	1381.3	1331.2
35°	1571.0	1552.6	1451.1	1370.3	1358.1	1375.2	1382.6	1435.2	1446.2	1421.7	1374.0
37.5°	1818.1	1776.5	1654.2	1475.5	1420.5	1416.8	1416.8	1486.6	1528.2	1471.9	1437.6
40°	2171.7	2113.0	1980.8	1670.1	1502.5	1517.1	1531.8	1569.8	1564.9	1528.2	1520.8
42.5°	2622.0	2576.7	2433.5	1996.8	1659.1	1585.7	1573.4	1624.8	1701.9	1687.2	1682.3
45°	2997.6	3000.0	2908.3	2444.6	1929.5	1743.5	1752.1	1791.2	1920.9	1909.9	1908.7
47.5°	3271.6	3237.4	3223.9	2876.5	2323.4	2043.2	2031.0	2057.9	2226.8	2296.5	2328.3
50°	3521.2	3498.0	3466.2	3296.1	2796.9	2418.9	2406.6	2409.1	2667.2	2765.1	2843.4
52.5°	3830.8	3860.1	3754.9	3650.9	3409.9	2907.0	2893.6	2845.9	3166.4	3301.0	3394.0
55°	4212.5	4157.5	4038.8	4092.6	3996.0	3434.4	3409.9	3353.6	3735.3	3791.6	3889.5
57.5°	4296.9	4255.3	4377.7	4568.6	4661.5	4053.5	4043.7	3942.1	4213.7	4162.3	4438.9
60°	4507.4	4518.4	4688.5	5067.7	5229.2	4768.0	4720.3	4541.6	4677.4	4687.2	4982.1
62.5°	4723.9	4698.2	5078.8	5443.4	5691.7	5444.6	5428.7	5073.9	5228.0	5103.2	5493.5
65°	4564.9	4604.0	5148.5	5759.0	6291.2	6106.5	6093.0	5586.5	5670.9	5515.5	5701.5
67.5°	3999.6	3920.1	4682.3	5614.6	6599.6	6800.2	6785.5	6145.6	5920.5	5513.1	5269.6
70°	2931.5	2863.0	3484.5	4754.5	6157.9	7155.0	7213.8	6534.7	5819.0	4999.2	4065.7
72.5°	1436.4	1437.6	1952.7	3223.9	4872.0	6521.3	6550.6	5991.5	4999.2	3685.2	2302.6
75°	424.6	429.4	723.1	1580.8	3149.3	4952.7	4985.8	4547.8	3465.0	1903.8	785.5
77.5°	155.4	155.4	239.8	593.4	1571.0	3126.0	3123.6	2792.0	1754.5	644.8	183.5
80°	80.8	84.4	124.8	242.3	680.3	1628.5	1689.7	1366.7	666.8	271.6	53.8
82.5°	33.0	36.7	68.5	124.8	326.7	571.4	625.2	535.9	290.0	189.6	24.5
85°	9.8	11.0	33.0	69.7	128.5	143.1	159.1	179.9	182.3	146.8	11.0
87.5°	1.2	1.2	13.5	23.2	28.1	30.6	35.5	35.5	93.0	102.8	6.1
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°	834.4	834.4	834.4	834.4	834.4	834.4	834.4	834.4	834.4	834.4	834.4
2.5°	840.5	834.4	824.6	802.6	797.7	781.8	780.6	765.9	770.8	761.0	757.3
5°	834.4	821.0	794.1	776.9	759.8	748.8	741.4	735.3	734.1	729.2	726.8
7.5°	845.4	827.1	785.5	758.6	729.2	719.4	703.5	702.3	693.7	685.2	685.2
10°	882.1	849.1	803.8	758.6	720.6	688.8	652.1	625.2	615.4	593.4	595.8
12.5°	911.5	882.1	816.1	769.6	712.1	639.9	559.1	496.7	467.4	439.2	450.2
15°	953.1	910.3	839.3	772.0	679.0	554.2	422.1	352.4	325.5	319.3	318.1
17.5°	998.4	953.1	868.7	765.9	611.8	428.2	310.8	270.4	275.3	282.6	281.4
20°	1048.5	993.5	890.7	745.1	505.3	310.8	254.5	253.3	260.6	271.6	274.1
22.5°	1101.2	1053.4	917.6	682.7	376.8	249.6	244.7	244.7	249.6	263.1	260.6
25°	1159.9	1096.3	931.1	586.1	270.4	230.0	232.5	237.4	239.8	250.8	252.0
27.5°	1205.1	1144.0	934.8	469.8	220.2	212.9	219.0	225.1	228.8	237.4	241.0
30°	1246.7	1203.9	915.2	349.9	201.9	198.2	200.7	209.2	216.6	223.9	223.9
32.5°	1299.4	1238.2	869.9	248.4	190.9	184.7	183.5	187.2	195.8	204.3	204.3
35°	1353.2	1295.7	797.7	199.4	181.1	172.5	167.6	163.9	167.6	173.7	178.6
37.5°	1431.5	1382.6	707.2	183.5	173.7	161.5	151.7	143.1	137.0	135.8	139.5
40°	1542.8	1480.4	591.0	172.5	165.2	150.5	135.8	121.1	107.7	99.1	100.3
42.5°	1711.7	1624.8	464.9	166.4	159.1	138.3	117.5	96.7	79.5	71.0	71.0
45°	1952.7	1815.7	341.4	160.3	151.7	123.6	96.7	72.2	55.1	50.2	51.4
47.5°	2316.1	2045.7	244.7	150.5	141.9	107.7	75.9	51.4	40.4	37.9	39.2
50°	2790.8	2318.5	190.9	139.5	129.7	90.5	56.3	37.9	31.8	30.6	31.8
52.5°	3288.8	2593.8	167.6	129.7	111.3	72.2	41.6	30.6	26.9	25.7	26.9
55°	3714.5	2771.2	145.6	115.0	89.3	53.8	33.0	26.9	23.2	19.6	19.6
57.5°	4145.2	2860.5	115.0	95.4	66.1	40.4	28.1	23.2	19.6	15.9	14.7
60°	4495.1	2924.2	82.0	71.0	46.5	31.8	24.5	20.8	15.9	12.2	11.0
62.5°	4725.2	2741.9	60.0	53.8	34.3	26.9	20.8	17.1	12.2	8.6	8.6
65°	4611.4	2489.8	46.5	37.9	25.7	20.8	17.1	12.2	8.6	4.9	3.7
67.5°	4137.9	2028.6	37.9	28.1	19.6	15.9	13.5	9.8	4.9	1.2	1.2
70°	3086.9	1486.6	30.6	20.8	15.9	12.2	9.8	6.1	2.4	1.2	0.0
72.5°	1688.4	813.6	24.5	17.1	12.2	9.8	7.3	4.9	2.4	0.0	0.0
75°	557.9	216.6	18.4	12.2	7.3	6.1	4.9	3.7	1.2	0.0	0.0
77.5°	134.6	56.3	14.7	11.0	6.1	3.7	2.4	1.2	1.2	0.0	0.0
80°	41.6	23.2	11.0	7.3	4.9	3.7	1.2	0.0	0.0	0.0	0.0
82.5°	17.1	11.0	4.9	4.9	3.7	1.2	0.0	0.0	0.0	0.0	0.0
85°	8.6	6.1	3.7	2.4	2.4	1.2	0.0	0.0	0.0	0.0	0.0
87.5°	6.1	2.4	1.2	1.2	0.0	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)