

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: P481781

Luminaire Tested: **IFLD-S-SA2D-827-U-T2-HSS**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P481781
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2D-827-U-T2-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens with House Side Shield
Light Source: (32) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

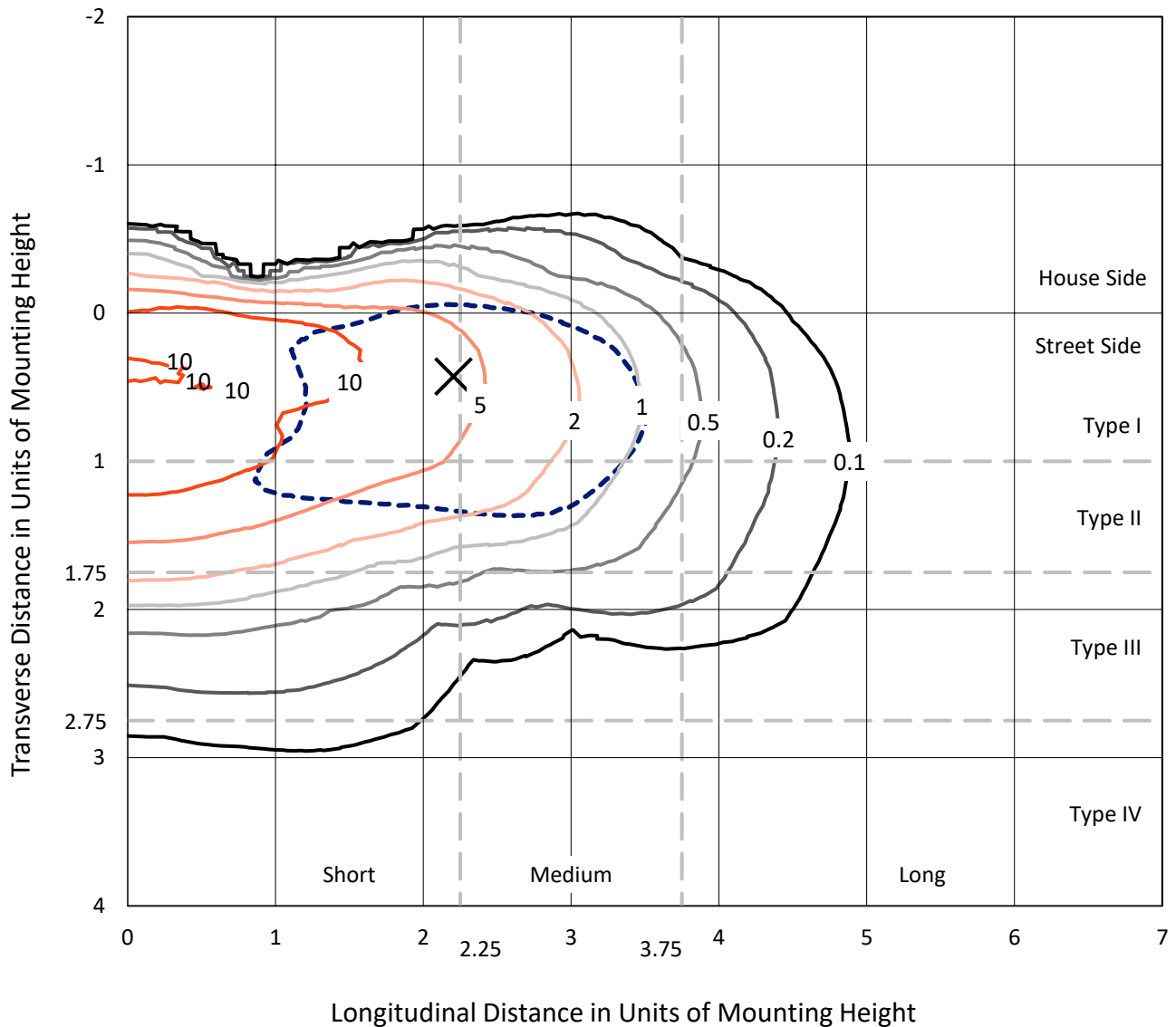
Lumens per Lamp: N/A
Luminaire Lumens: 8279.2 lumens
Efficiency: N/A
Efficacy: 66.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 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

REPORT NUMBER: P481781
 CATALOG NUMBER: IFLD-S-SA2D-827-U-T2-HSS

Iso-Footcandle Lines of Horizontal Illumination

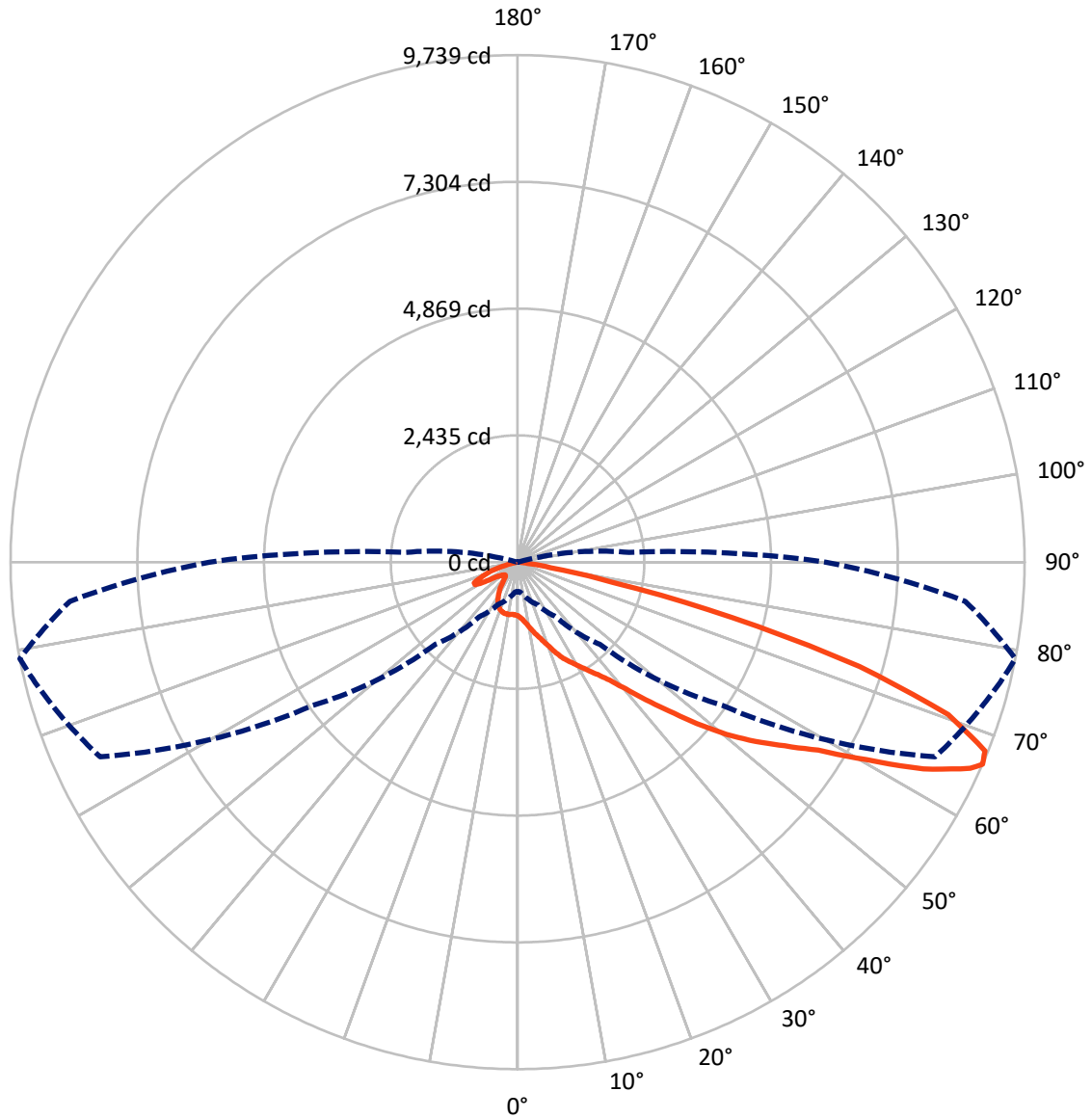
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 15.5 fc
 Type II - Short - N/A

REPORT NUMBER: P481781
CATALOG NUMBER: IFLD-S-SA2D-827-U-T2-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P481781
 CATALOG NUMBER: IFLD-S-SA2D-827-U-T2-HSS

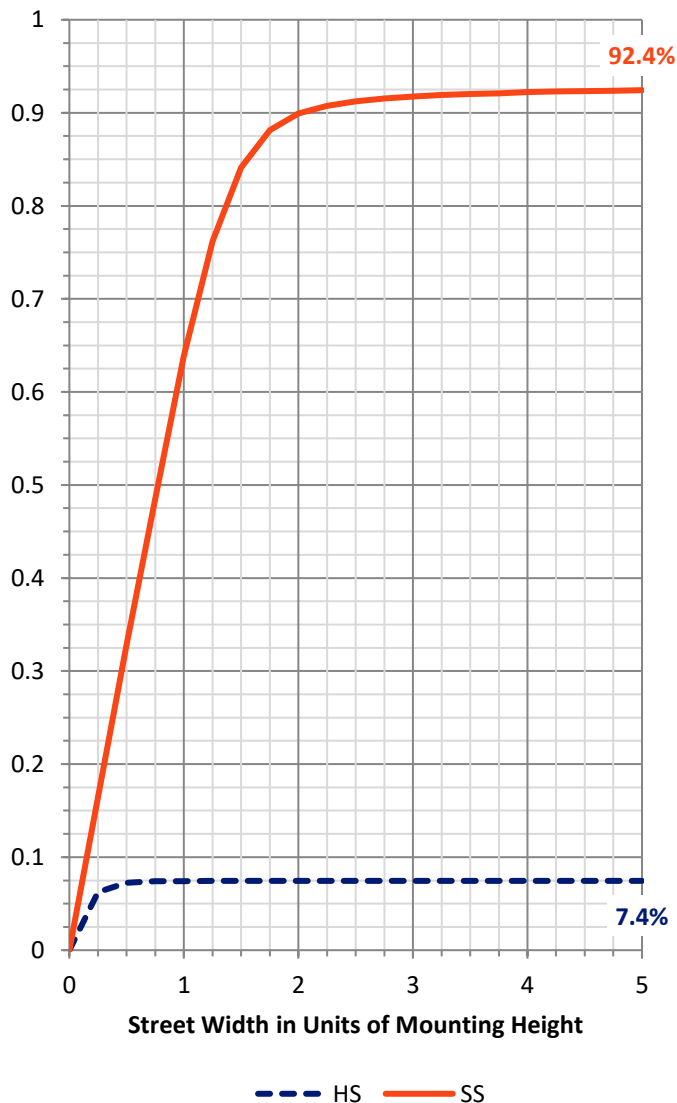
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	621.7	0.0	621.7
	% Fixture	7.5	0.0	7.5
Street Side	Lumens	7657.5	0.0	7657.5
	% Fixture	92.5	0.0	92.5
Total	Lumens	8279.2	0.0	8279.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	97.4	1.2
10°-20°	268.1	3.2
20°-30°	445.4	5.4
30°-40°	765.0	9.2
40°-50°	1385.8	16.7
50°-60°	2190.6	26.5
60°-70°	2229.1	26.9
70°-80°	850.1	10.3
80°-90°	47.7	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°	8279.2	100.0
0°-180°	8279.2	100.0

Coefficient of Utilization



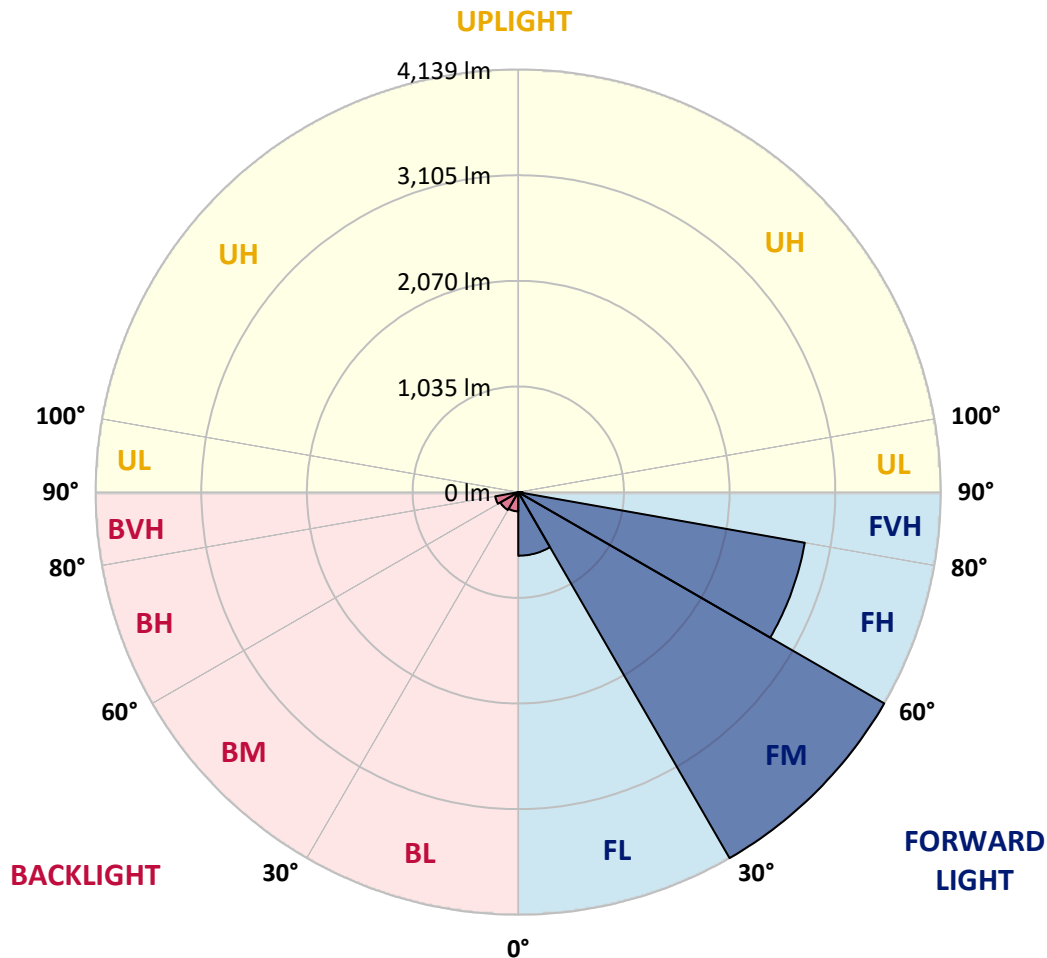
REPORT NUMBER: P481781
 CATALOG NUMBER: IFLD-S-SA2D-827-U-T2-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	622.9	7.5			
FM (30°-60°)	4139.4	50.0			
FH (60°-80°)	2850.0	34.4			G2/5000
FVH (80°-90°)	45.2	0.5			G1/100
BL (0°-30°)	188.0	2.3	B1/500		
BM (30°-60°)	202.0	2.4	B0/220		
BH (60°-80°)	229.2	2.8	B1/500		G1/500
BVH (80°-90°)	2.4	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





REPORT NUMBER: P481781

CATALOG NUMBER: IFLD-S-SA2D-827-U-T2-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	1030.0	1030.0	1030.0	1030.0	1030.0	1030.0	1030.0	1030.0	1030.0	1030.0	1030.0
2.5°	1166.6	1165.3	1160.2	1151.3	1139.8	1136.0	1119.4	1096.4	1083.6	1069.6	1063.2
5°	1247.0	1240.6	1255.9	1249.6	1252.1	1221.5	1201.1	1184.5	1136.0	1116.8	1086.2
7.5°	1264.9	1271.3	1270.0	1280.2	1290.4	1301.9	1287.9	1263.6	1215.1	1187.0	1153.8
10°	1264.9	1262.3	1272.5	1286.6	1315.9	1341.5	1379.7	1347.8	1310.8	1277.6	1217.7
12.5°	1241.9	1238.1	1248.3	1277.6	1330.0	1382.3	1424.4	1455.1	1402.7	1375.9	1298.1
15°	1171.7	1167.9	1210.0	1262.3	1331.2	1416.8	1504.8	1554.6	1518.9	1476.8	1390.0
17.5°	1084.9	1090.0	1134.7	1221.5	1331.2	1433.4	1545.7	1654.2	1649.1	1595.5	1504.8
20°	1055.6	1059.4	1104.1	1166.6	1291.7	1444.8	1609.5	1762.7	1793.3	1729.5	1610.8
22.5°	1111.7	1107.9	1111.7	1150.0	1264.9	1434.6	1651.6	1886.5	1941.3	1891.6	1749.9
25°	1303.2	1300.6	1268.7	1210.0	1249.6	1411.7	1673.3	1968.2	2094.5	2048.6	1862.2
27.5°	1584.0	1573.8	1524.0	1401.4	1321.0	1425.7	1709.1	2047.3	2228.5	2176.2	1963.0
30°	1885.2	1860.9	1795.8	1642.7	1506.1	1478.0	1729.5	2106.0	2377.9	2311.5	2051.1
32.5°	2093.2	2125.1	2104.7	1949.0	1739.7	1599.3	1762.7	2180.0	2515.7	2472.3	2201.7
35°	2414.9	2451.9	2366.4	2228.5	2017.9	1792.0	1832.9	2240.0	2727.6	2654.8	2342.1
37.5°	2820.8	2848.8	2787.6	2525.9	2303.8	2029.4	1977.1	2365.1	2910.1	2875.6	2522.1
40°	3025.0	3160.3	3073.5	2837.4	2598.7	2361.3	2215.8	2511.9	3227.9	3199.8	2771.0
42.5°	3307.1	3374.7	3330.0	3155.2	2906.3	2716.1	2510.6	2797.8	3613.4	3613.4	3107.9
45°	3605.7	3608.3	3605.7	3462.8	3242.0	3143.7	2908.8	3156.4	4028.2	4074.2	3511.3
47.5°	3850.8	3927.4	3921.0	3835.5	3664.4	3627.4	3307.1	3564.9	4549.0	4629.4	3904.4
50°	3977.2	4062.7	4088.2	4132.9	4125.2	4203.1	3742.3	4038.4	4998.2	5196.1	4409.8
52.5°	3942.7	3949.1	4106.1	4282.2	4563.0	4781.3	4266.9	4575.8	5524.1	5719.4	4800.4
55°	3660.6	3636.4	3959.3	4160.9	4741.7	5134.8	4993.1	5245.9	5933.8	6231.2	5203.7
57.5°	3041.6	3048.0	3346.6	3756.3	4609.0	5275.2	5769.2	6121.4	6508.2	6808.1	5770.4
60°	2099.6	2092.0	2426.4	2899.9	3829.1	5013.6	6215.9	7256.1	7276.6	7701.6	6787.7
62.5°	1180.6	1183.2	1437.2	1841.8	2679.1	4097.1	6194.2	8461.0	8374.2	8746.9	7944.1
65°	668.8	685.4	860.3	1091.3	1604.4	2750.6	5327.5	8940.9	9220.5	9552.3	8646.1
66°	565.4	576.9	726.3	901.1	1280.2	2231.1	4795.3	8847.8	9485.9	9738.7	8632.1
67.5°	437.8	453.1	578.2	714.8	939.4	1544.4	3859.7	8384.4	9534.4	9682.5	8388.3
70°	299.9	310.2	405.9	542.5	642.0	790.1	2307.7	6931.9	8651.2	8776.3	7290.6
72.5°	210.6	215.7	284.6	411.0	494.0	451.8	1144.9	4931.9	6620.5	6864.3	5670.9
75°	151.9	157.0	195.3	294.8	385.5	296.1	524.6	3150.1	4060.1	4251.6	3415.6
77.5°	109.8	116.1	132.7	190.2	279.5	208.0	257.8	1645.2	1914.5	1881.4	1469.1
80°	66.4	72.8	98.3	122.5	204.2	146.8	141.7	686.7	679.0	644.6	462.0
82.5°	30.6	35.7	52.3	83.0	143.0	102.1	67.6	245.1	214.4	196.6	130.2
85°	8.9	11.5	30.6	62.5	72.8	49.8	40.8	84.2	88.1	75.3	43.4
87.5°	0.0	1.3	14.0	15.3	21.7	16.6	15.3	21.7	40.8	33.2	14.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P481781
 CATALOG NUMBER: IFLD-S-SA2D-827-U-T2-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1030.0	1030.0	1030.0	1030.0	1030.0	1030.0	1030.0	1030.0	1030.0	1030.0	1030.0
2.5°	1040.2	1031.3	1009.6	976.4	947.1	931.7	910.0	890.9	880.7	879.4	878.1
5°	1065.8	1041.5	989.2	929.2	884.5	836.0	802.8	778.6	755.6	733.9	746.7
7.5°	1100.2	1061.9	976.4	898.6	801.6	739.0	680.3	645.8	625.4	606.3	603.7
10°	1153.8	1105.3	967.5	827.1	716.0	624.1	564.2	514.4	486.3	453.1	465.9
12.5°	1226.6	1139.8	934.3	762.0	619.0	522.0	436.5	356.1	311.4	277.0	278.2
15°	1299.3	1185.7	903.7	682.9	531.0	403.3	278.2	223.4	210.6	202.9	205.5
17.5°	1370.8	1222.8	856.4	602.4	430.1	256.5	202.9	191.5	185.1	177.4	177.4
20°	1457.6	1247.0	797.7	528.4	296.1	190.2	173.6	165.9	155.7	145.5	146.8
22.5°	1541.8	1267.4	730.1	434.0	199.1	164.7	145.5	135.3	126.4	116.1	116.1
25°	1626.1	1273.8	642.0	311.4	160.8	131.5	113.6	99.6	90.6	81.7	83.0
27.5°	1683.5	1234.2	559.0	199.1	128.9	99.6	79.1	67.6	60.0	51.1	51.1
30°	1716.7	1161.5	469.7	140.4	97.0	67.6	47.2	35.7	28.1	21.7	20.4
32.5°	1749.9	1102.8	368.9	107.2	63.8	35.7	17.9	6.4	0.0	0.0	0.0
35°	1816.3	1036.4	247.6	60.0	21.7	1.3	0.0	0.0	0.0	0.0	0.0
37.5°	1858.4	944.5	113.6	8.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	1964.3	898.6	28.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	2136.6	866.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	2325.5	853.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	2577.0	888.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	2842.5	981.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	3133.5	1069.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	3387.5	1175.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	3854.6	1425.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	4693.2	1917.1	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	5637.7	2282.1	14.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	5983.6	2273.2	24.3	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	5922.3	2148.1	24.3	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	5604.5	1908.2	21.7	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	4813.2	1576.3	21.7	3.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	3669.5	1227.9	20.4	5.1	1.3	0.0	0.0	0.0	0.0	0.0	0.0
75°	2214.5	653.5	16.6	6.4	2.6	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	882.0	229.7	12.8	5.1	2.6	0.0	0.0	0.0	0.0	0.0	0.0
80°	238.7	68.9	7.7	5.1	3.8	1.3	0.0	0.0	0.0	0.0	0.0
82.5°	62.5	25.5	6.4	5.1	2.6	1.3	0.0	0.0	0.0	0.0	0.0
85°	24.3	10.2	5.1	3.8	3.8	2.6	1.3	0.0	0.0	0.0	0.0
87.5°	7.7	3.8	3.8	2.6	2.6	1.3	1.3	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)