

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: P482951

Luminaire Tested: **IFLD-S-SA2D-827-U-T3R-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P482951
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-T3R-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R distribution lens with House Side Shield
Light Source: (32) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

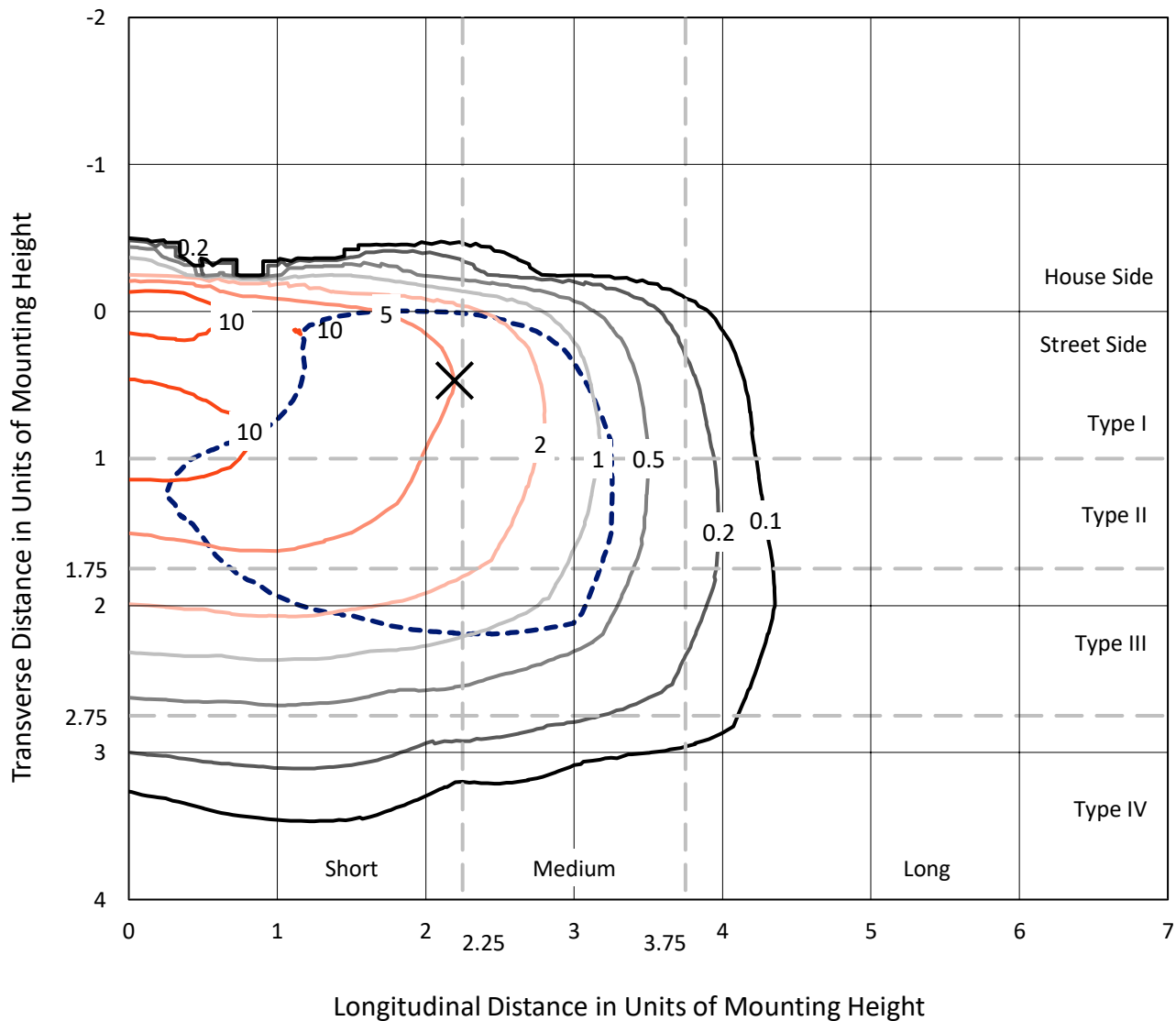
Lumens per Lamp: N/A
Luminaire Lumens: 8241 lumens
Efficiency: N/A
Efficacy: 66.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 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: P482951
 CATALOG NUMBER: IFLD-S-SA2D-827-U-T3R-HSS

Iso-Footcandle Lines of Horizontal Illumination

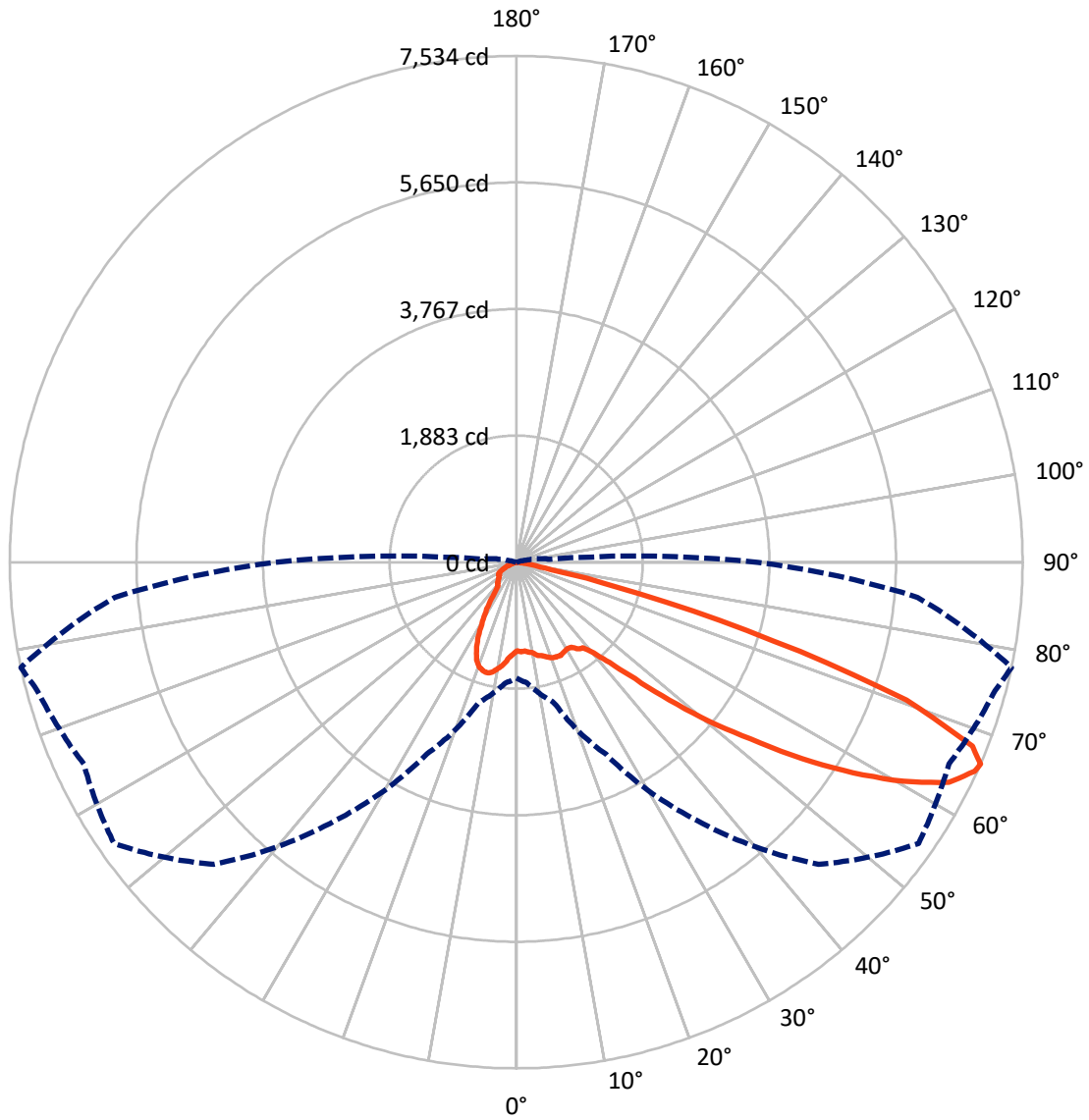
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 15 fc
 Type III - Short - N/A

REPORT NUMBER: P482951
CATALOG NUMBER: IFLD-S-SA2D-827-U-T3R-HSS

Luminous Intensity Polar Plot



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

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 CATALOG NUMBER: IFLD-S-SA2D-827-U-T3R-HSS

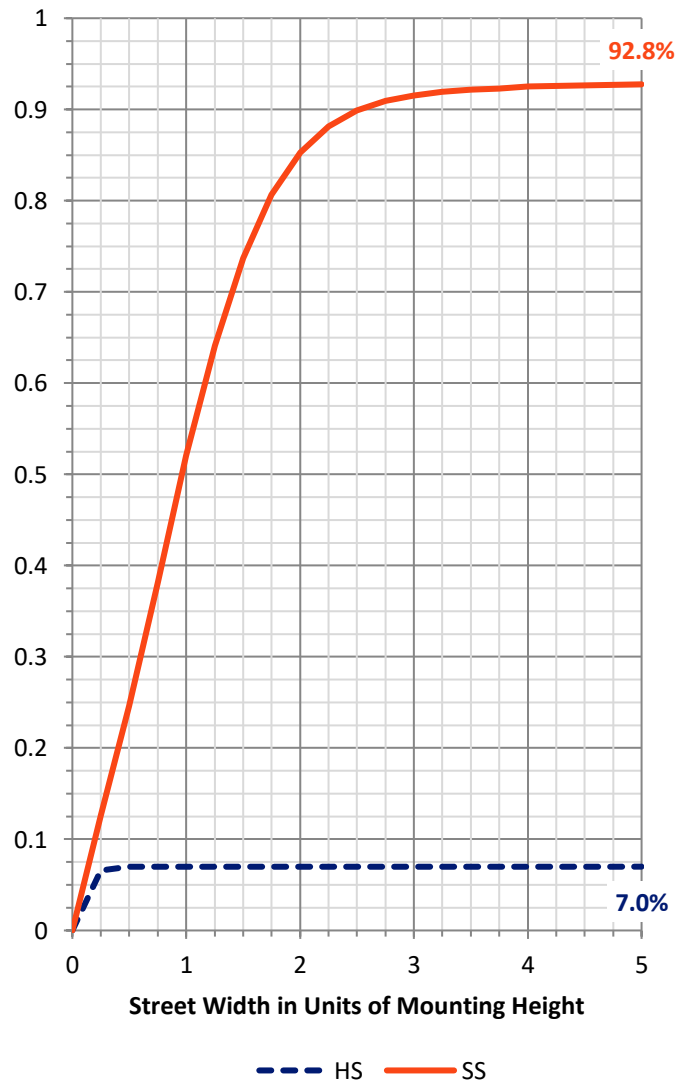
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	579.4	0.0	579.4
	% Fixture	7.0	0.0	7.0
Street Side	Lumens	7661.6	0.0	7661.6
	% Fixture	93.0	0.0	93.0
Total	Lumens	8241.0	0.0	8241.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	120.8	1.5
10°-20°	272.6	3.3
20°-30°	389.6	4.7
30°-40°	666.9	8.1
40°-50°	1203.7	14.6
50°-60°	2058.5	25.0
60°-70°	2533.6	30.7
70°-80°	957.9	11.6
80°-90°	37.4	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°	8241.0	100.0
0°-180°	8241.0	100.0

Coefficient of Utilization

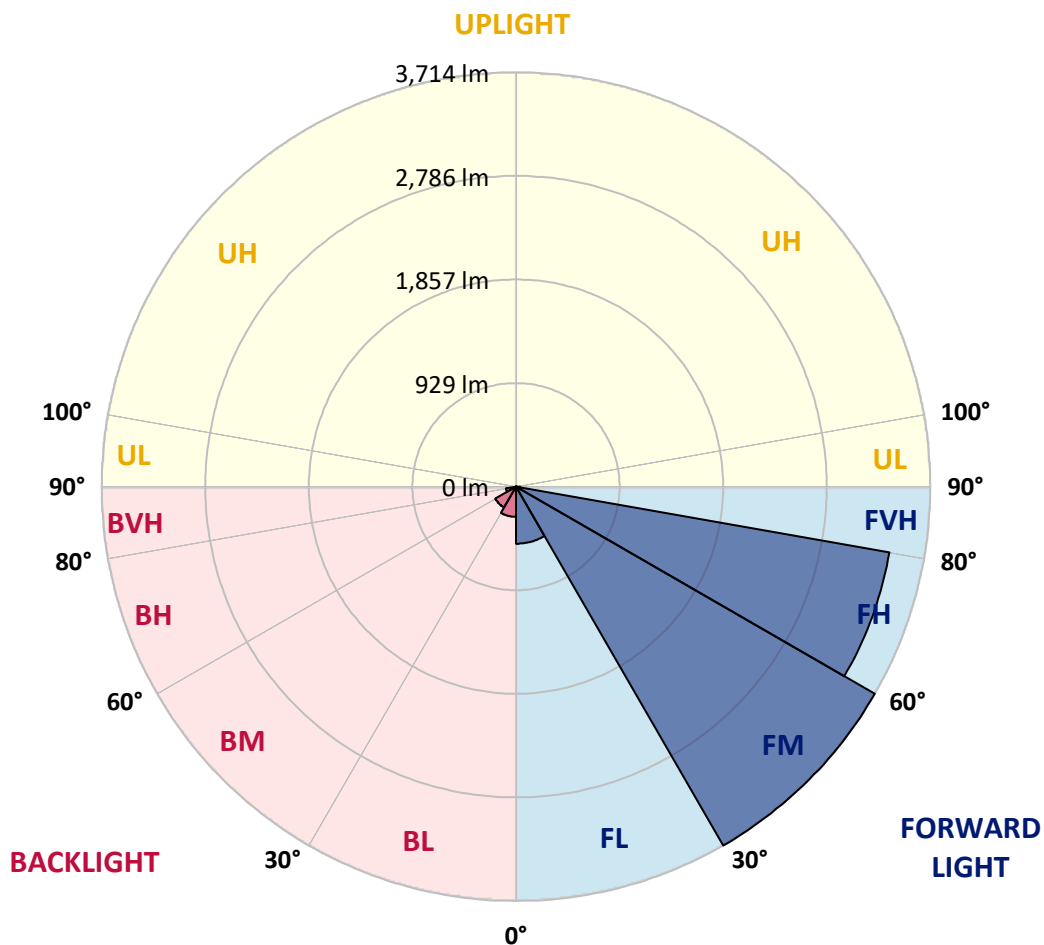


REPORT NUMBER: P482951
 CATALOG NUMBER: IFLD-S-SA2D-827-U-T3R-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	511.6	6.2			
FM (30°-60°)	3714.4	45.1			
FH (60°-80°)	3399.7	41.3			G2/5000
FVH (80°-90°)	35.9	0.4			G1/100
BL (0°-30°)	271.3	3.3	B1/500		
BM (30°-60°)	214.7	2.6	B0/220		
BH (60°-80°)	91.8	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





REPORT NUMBER: P482951

CATALOG NUMBER: IFLD-S-SA2D-827-U-T3R-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	1319.9	1319.9	1319.9	1319.9	1319.9	1319.9	1319.9	1319.9	1319.9	1319.9	1319.9
2.5°	1214.1	1202.9	1214.1	1230.3	1239.0	1246.5	1272.6	1295.0	1318.7	1334.9	1329.9
5°	1125.7	1146.9	1149.3	1154.3	1168.0	1212.9	1227.8	1266.4	1324.9	1329.9	1352.3
7.5°	1056.0	1049.7	1065.9	1098.3	1133.2	1159.3	1202.9	1270.1	1331.1	1352.3	1395.9
10°	955.1	967.5	985.0	1017.3	1059.7	1124.4	1201.6	1276.4	1363.5	1371.0	1451.9
12.5°	900.3	887.8	915.2	948.9	1021.1	1080.9	1175.5	1265.1	1383.4	1424.5	1517.9
15°	855.5	861.7	887.8	910.3	970.0	1046.0	1156.8	1292.5	1417.1	1445.7	1587.7
17.5°	836.8	833.1	853.0	875.4	948.9	1034.8	1149.3	1293.8	1447.0	1484.3	1635.0
20°	845.5	853.0	846.8	867.9	914.0	1001.2	1160.6	1317.4	1469.4	1520.4	1686.0
22.5°	982.5	972.5	922.7	882.9	885.4	987.5	1151.8	1332.4	1489.3	1530.4	1720.9
25°	1339.9	1286.3	1163.0	1009.9	909.0	950.1	1141.9	1327.4	1485.6	1536.6	1742.1
27.5°	1699.7	1653.7	1532.9	1295.0	1004.9	935.2	1107.0	1331.1	1466.9	1514.2	1707.2
30°	2079.5	2104.4	1925.1	1642.5	1256.4	1017.3	1084.6	1311.2	1454.4	1494.3	1714.7
32.5°	2469.3	2459.3	2351.0	2044.7	1616.3	1199.2	1120.7	1331.1	1470.6	1509.2	1758.3
35°	2774.4	2739.5	2629.9	2353.5	1913.9	1473.1	1245.2	1425.8	1541.6	1587.7	1820.5
37.5°	2925.0	2940.0	2876.5	2636.1	2240.2	1727.1	1400.9	1425.8	1564.0	1617.5	1921.4
40°	3042.1	3086.9	3063.3	2986.1	2563.9	2013.5	1572.7	1514.2	1677.3	1778.2	2110.7
42.5°	3182.8	3161.6	3301.1	3230.1	2987.3	2374.6	1874.1	1724.6	1945.0	2042.2	2394.6
45°	3257.5	3338.5	3444.3	3535.2	3379.5	2825.4	2267.6	2097.0	2354.7	2478.0	2816.7
47.5°	3449.3	3481.7	3653.5	3768.1	3698.3	3340.9	2865.3	2641.1	2870.2	3064.5	3299.8
50°	3561.3	3517.8	3758.1	3932.4	3972.3	3768.1	3400.7	3226.4	3482.9	3730.7	3751.9
52.5°	3463.0	3587.5	3827.8	4140.4	4251.2	4149.1	4029.6	3953.6	4134.2	4363.3	4261.2
55°	3118.0	3202.7	3788.0	4368.3	4725.6	4678.3	4789.1	4739.3	4921.1	5164.0	4856.4
57.5°	2840.4	2946.2	3460.5	4486.6	5167.7	5307.2	5446.6	5415.5	5634.6	5914.8	5360.7
60°	2667.3	2728.3	3223.9	4456.7	5429.2	5957.2	6272.2	6053.0	6410.4	6624.6	5755.4
62.5°	2367.2	2405.8	2879.0	4060.7	5507.6	6416.7	6950.9	6653.2	6963.3	7224.8	6039.3
65°	1897.7	2002.3	2393.3	3468.0	4989.6	6501.3	7374.2	7024.3	7324.4	7496.3	6125.3
66°	1727.1	1803.1	2161.7	3154.2	4694.5	6360.6	7303.3	7101.5	7376.7	7533.6	5993.3
67.5°	1433.3	1499.3	1784.4	2707.1	4090.6	6050.6	7353.1	7049.2	7416.6	7320.7	5816.5
70°	948.9	991.2	1220.3	1830.5	2849.1	4949.8	6820.1	6640.8	6520.0	6160.1	4547.6
72.5°	443.3	504.3	762.1	1109.5	1671.1	3463.0	5561.2	5320.9	4572.5	3997.2	2869.0
75°	200.5	227.9	418.4	636.3	749.6	1794.4	3587.5	3240.1	2276.3	1890.3	1256.4
77.5°	108.3	123.3	204.2	302.6	272.7	628.8	1775.7	1476.8	717.3	525.5	364.9
80°	83.4	98.4	170.6	173.1	100.9	163.1	660.0	457.0	179.3	135.7	87.2
82.5°	43.6	62.3	134.5	112.1	51.1	66.0	204.2	127.0	56.0	44.8	37.4
85°	17.4	27.4	76.0	74.7	29.9	22.4	57.3	38.6	22.4	18.7	17.4
87.5°	1.2	1.2	41.1	28.6	18.7	6.2	8.7	8.7	11.2	10.0	12.5
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: P482951
 CATALOG NUMBER: IFLD-S-SA2D-827-U-T3R-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1319.9	1319.9	1319.9	1319.9	1319.9	1319.9	1319.9	1319.9	1319.9	1319.9	1319.9
2.5°	1352.3	1367.3	1369.7	1410.8	1419.6	1410.8	1433.3	1429.5	1439.5	1432.0	1418.3
5°	1383.4	1404.6	1445.7	1476.8	1476.8	1451.9	1432.0	1405.9	1367.3	1357.3	1349.8
7.5°	1437.0	1504.2	1541.6	1521.7	1481.8	1388.4	1258.9	1164.3	1084.6	1054.7	1041.0
10°	1531.6	1569.0	1612.6	1531.6	1366.0	1168.0	950.1	806.9	694.8	669.9	651.3
12.5°	1592.6	1652.4	1677.3	1476.8	1151.8	856.7	620.1	458.2	379.8	320.0	310.1
15°	1672.3	1740.8	1689.8	1328.7	907.8	561.6	321.3	200.5	163.1	153.2	153.2
17.5°	1727.1	1801.8	1638.7	1144.4	643.8	298.9	159.4	138.2	135.7	137.0	134.5
20°	1823.0	1867.8	1561.5	930.2	384.8	153.2	128.3	123.3	120.8	124.5	122.0
22.5°	1859.1	1900.2	1435.7	673.7	173.1	102.1	95.9	92.1	94.6	93.4	92.1
25°	1856.6	1877.8	1229.0	386.0	51.1	39.8	36.1	36.1	33.6	34.9	33.6
27.5°	1875.3	1823.0	997.4	114.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30°	1885.3	1734.6	709.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	1890.3	1688.5	457.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35°	1928.9	1596.4	195.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	1955.0	1478.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	2063.3	1440.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	2204.1	1371.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	2399.6	1267.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	2658.6	1206.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	2851.6	1110.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	3096.9	1053.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	3388.3	1056.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	3653.5	1038.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	3789.2	887.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	3760.6	718.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	3661.0	564.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	3592.5	499.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	3384.5	399.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	2693.4	273.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	1713.4	168.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	789.5	77.2	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	247.8	47.3	10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	64.8	29.9	10.0	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	33.6	21.2	8.7	3.7	2.5	0.0	0.0	0.0	0.0	0.0	0.0
85°	21.2	8.7	3.7	2.5	2.5	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	18.7	5.0	2.5	2.5	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)