

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: P482715

Luminaire Tested: **IFLD-S-SA2B-727-U-T3R-HSS**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P482715
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2B-727-U-T3R-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R distribution lens with House Side Shield
Light Source: (32) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

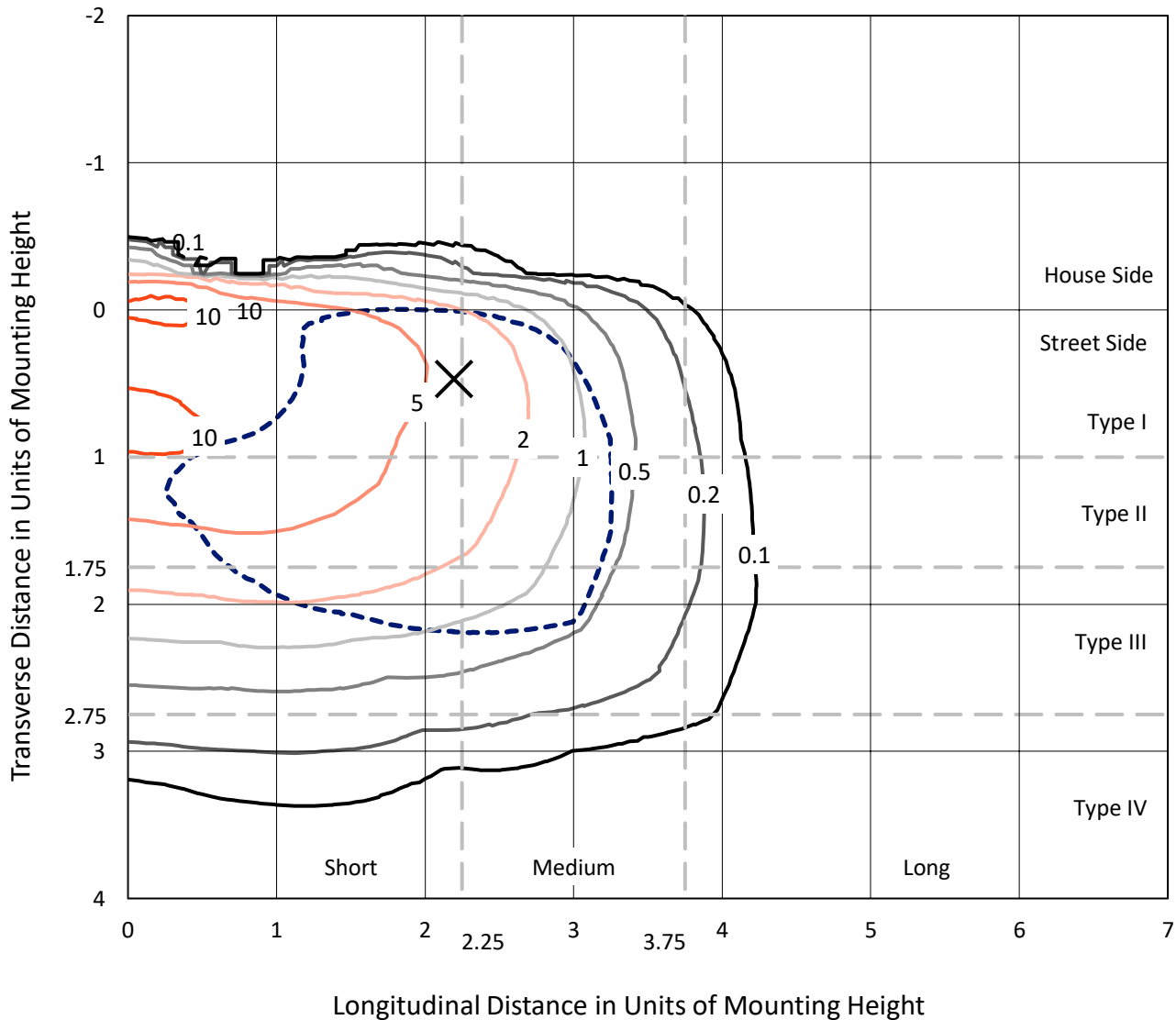
Lumens per Lamp: N/A
Luminaire Lumens: 6844.7 lumens
Efficiency: N/A
Efficacy: 83.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

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

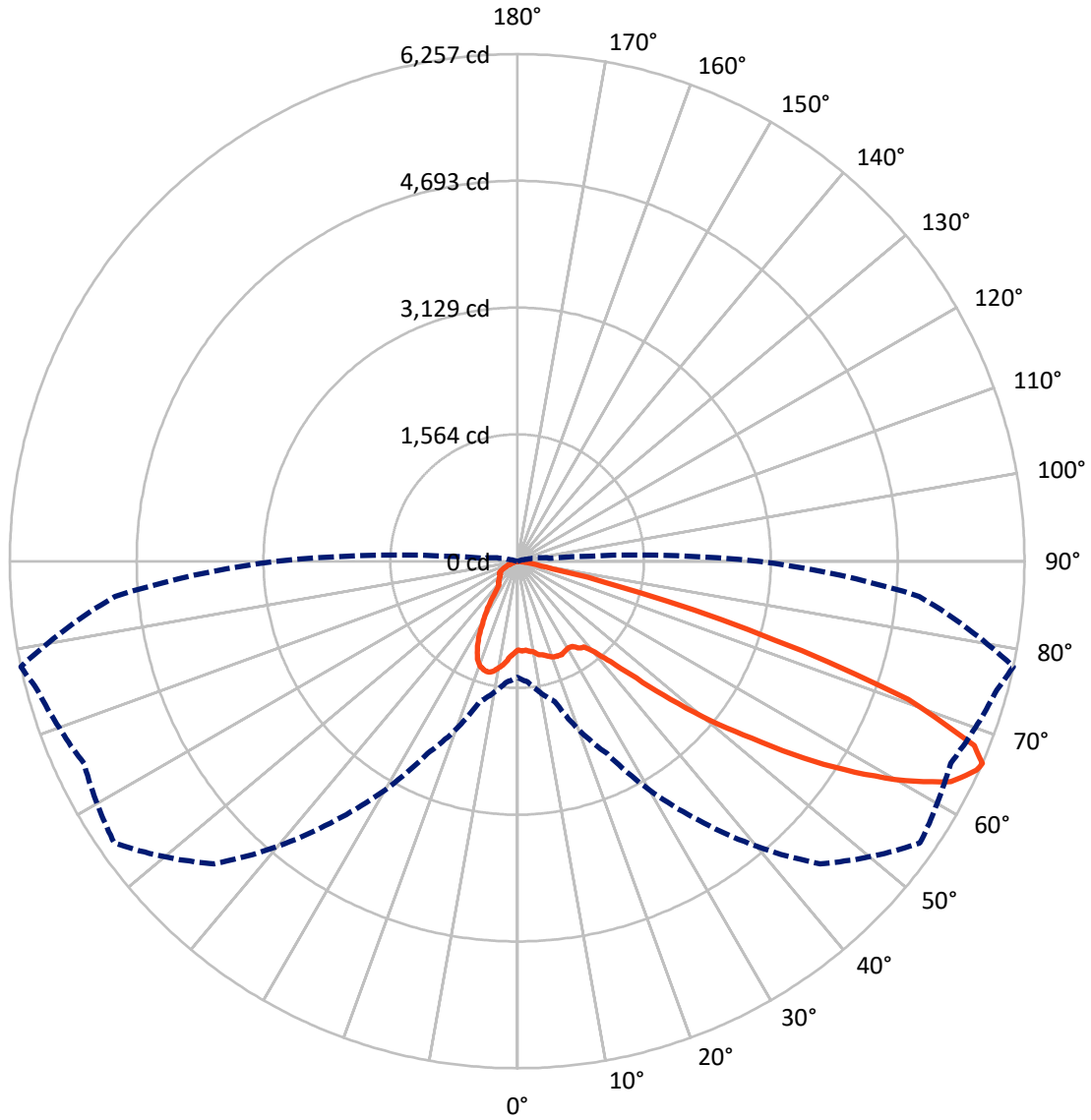
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 12.5 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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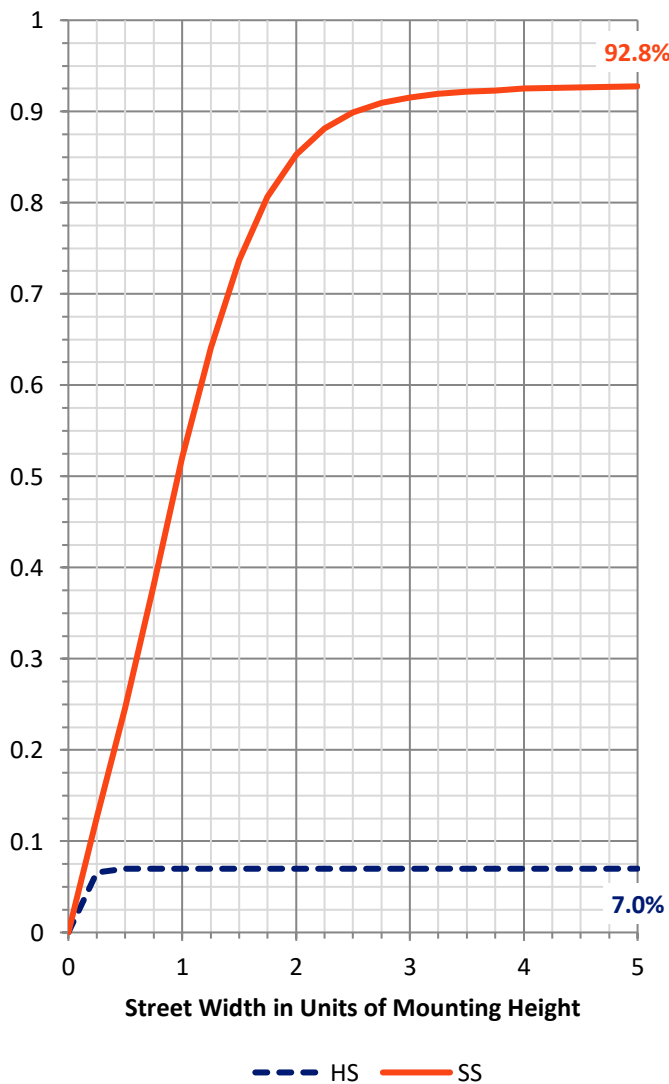
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	481.2	0.0	481.2
	% Fixture	7.0	0.0	7.0
Street Side	Lumens	6363.5	0.0	6363.5
	% Fixture	93.0	0.0	93.0
Total	Lumens	6844.7	0.0	6844.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.3	1.5
10°-20°	226.4	3.3
20°-30°	323.6	4.7
30°-40°	553.9	8.1
40°-50°	999.8	14.6
50°-60°	1709.7	25.0
60°-70°	2104.4	30.7
70°-80°	795.6	11.6
80°-90°	31.1	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°	6844.7	100.0
0°-180°	6844.7	100.0

Coefficient of Utilization

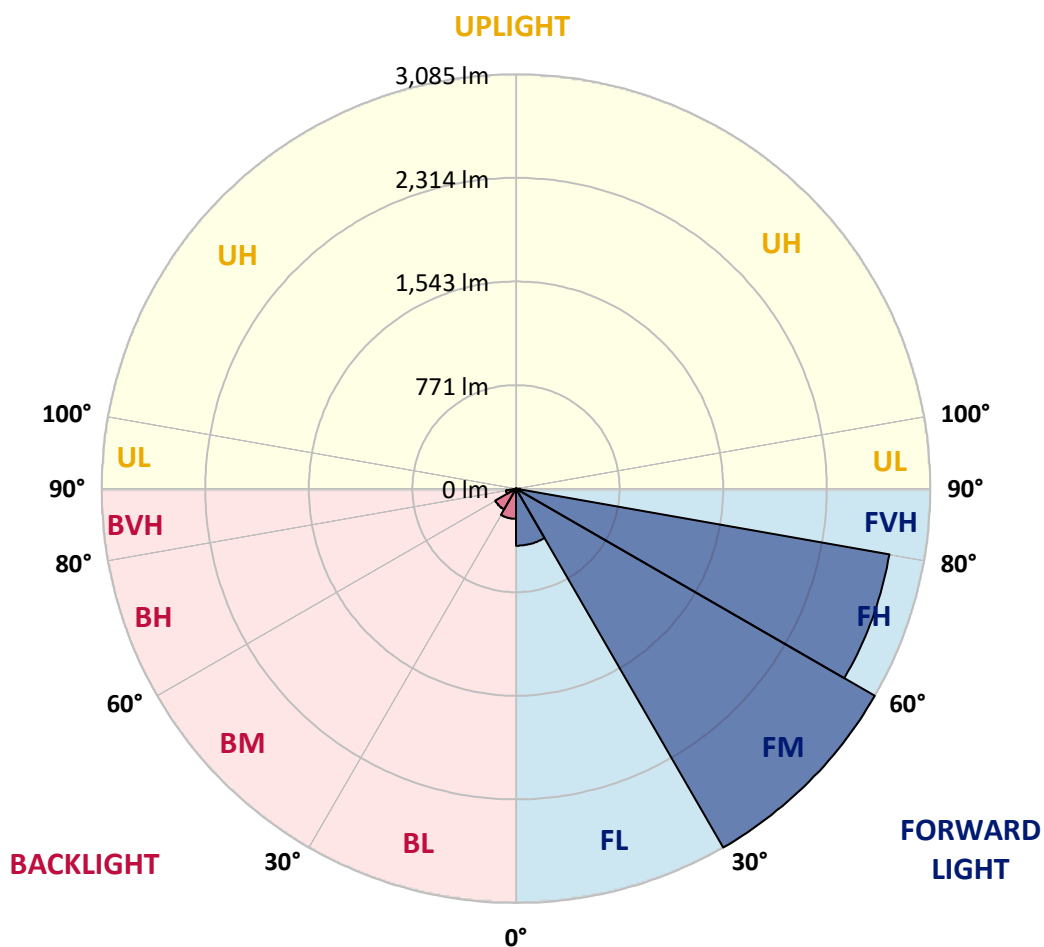


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	424.9	6.2			
FM (30°-60°)	3085.0	45.1			
FH (60°-80°)	2823.7	41.3			G2/5000
FVH (80°-90°)	29.8	0.4			G1/100
BL (0°-30°)	225.4	3.3	B1/500		
BM (30°-60°)	178.4	2.6	B0/220		
BH (60°-80°)	76.2	1.1	B0/110		G0/110
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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	1096.3	1096.3	1096.3	1096.3	1096.3	1096.3	1096.3	1096.3	1096.3	1096.3	1096.3
2.5°	1008.4	999.1	1008.4	1021.8	1029.1	1035.3	1057.0	1075.6	1095.3	1108.7	1104.6
5°	935.0	952.5	954.6	958.7	970.1	1007.4	1019.8	1051.8	1100.4	1104.6	1123.2
7.5°	877.0	871.9	885.3	912.2	941.2	962.9	999.1	1054.9	1105.6	1123.2	1159.4
10°	793.3	803.6	818.1	845.0	880.1	933.9	998.0	1060.1	1132.5	1138.7	1205.9
12.5°	747.8	737.4	760.2	788.1	848.1	897.7	976.3	1050.8	1149.0	1183.2	1260.7
15°	710.5	715.7	737.4	756.0	805.7	868.8	960.8	1073.5	1177.0	1200.8	1318.7
17.5°	695.0	691.9	708.5	727.1	788.1	859.5	954.6	1074.6	1201.8	1232.8	1358.0
20°	702.2	708.5	703.3	720.9	759.1	831.5	963.9	1094.2	1220.4	1262.8	1400.4
22.5°	816.0	807.7	766.4	733.3	735.3	820.2	956.7	1106.6	1237.0	1271.1	1429.3
25°	1112.8	1068.4	966.0	838.8	755.0	789.1	948.4	1102.5	1233.8	1276.3	1446.9
27.5°	1411.7	1373.5	1273.2	1075.6	834.6	776.7	919.4	1105.6	1218.3	1257.6	1417.9
30°	1727.2	1747.9	1598.9	1364.2	1043.5	845.0	900.8	1089.1	1208.0	1241.1	1424.1
32.5°	2050.9	2042.6	1952.6	1698.2	1342.4	996.0	930.8	1105.6	1221.4	1253.5	1460.3
35°	2304.3	2275.3	2184.3	1954.7	1589.6	1223.5	1034.2	1184.2	1280.4	1318.7	1512.1
37.5°	2429.4	2441.8	2389.1	2189.5	1860.6	1434.5	1163.5	1184.2	1299.0	1343.5	1595.8
40°	2526.7	2563.9	2544.2	2480.1	2129.5	1672.4	1306.2	1257.6	1393.1	1476.9	1753.0
42.5°	2643.5	2625.9	2741.8	2682.8	2481.1	1972.3	1556.5	1432.4	1615.5	1696.2	1988.8
45°	2705.6	2772.8	2860.7	2936.2	2806.9	2346.7	1883.4	1741.7	1955.7	2058.1	2339.5
47.5°	2864.8	2891.7	3034.5	3129.6	3071.7	2774.9	2379.8	2193.6	2383.9	2545.3	2740.7
50°	2957.9	2921.7	3121.3	3266.1	3299.2	3129.6	2824.5	2679.7	2892.8	3098.6	3116.2
52.5°	2876.2	2979.6	3179.3	3438.9	3530.9	3446.1	3346.8	3283.7	3433.7	3624.0	3539.2
55°	2589.7	2660.1	3146.2	3628.1	3924.9	3885.6	3977.7	3936.3	4087.3	4289.0	4033.5
57.5°	2359.1	2447.0	2874.2	3726.4	4292.1	4407.9	4523.8	4497.9	4679.9	4912.6	4452.4
60°	2215.3	2266.0	2677.6	3701.5	4509.3	4947.8	5209.5	5027.4	5324.3	5502.2	4780.3
62.5°	1966.1	1998.2	2391.2	3372.7	4574.4	5329.4	5773.1	5525.9	5783.5	6000.7	5016.1
65°	1576.2	1663.1	1987.8	2880.4	4144.2	5399.8	6124.8	5834.2	6083.4	6226.1	5087.4
66°	1434.5	1497.6	1795.4	2619.7	3899.1	5282.9	6065.8	5898.3	6126.8	6257.2	4977.8
67.5°	1190.4	1245.2	1482.1	2248.4	3397.5	5025.4	6107.2	5854.8	6159.9	6080.3	4830.9
70°	788.1	823.3	1013.6	1520.3	2366.3	4111.1	5664.5	5515.6	5415.3	5116.4	3777.0
72.5°	368.2	418.9	633.0	921.5	1388.0	2876.2	4618.9	4419.3	3797.7	3319.9	2382.9
75°	166.5	189.3	347.5	528.5	622.6	1490.3	2979.6	2691.1	1890.6	1570.0	1043.5
77.5°	90.0	102.4	169.6	251.3	226.5	522.3	1474.8	1226.6	595.7	436.4	303.0
80°	69.3	81.7	141.7	143.8	83.8	135.5	548.1	379.6	148.9	112.7	72.4
82.5°	36.2	51.7	111.7	93.1	42.4	54.8	169.6	105.5	46.5	37.2	31.0
85°	14.5	22.8	63.1	62.1	24.8	18.6	47.6	32.1	18.6	15.5	14.5
87.5°	1.0	1.0	34.1	23.8	15.5	5.2	7.2	7.2	9.3	8.3	10.3
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°	1096.3	1096.3	1096.3	1096.3	1096.3	1096.3	1096.3	1096.3	1096.3	1096.3	1096.3
2.5°	1123.2	1135.6	1137.7	1171.8	1179.0	1171.8	1190.4	1187.3	1195.6	1189.4	1178.0
5°	1149.0	1166.6	1200.8	1226.6	1226.6	1205.9	1189.4	1167.7	1135.6	1127.3	1121.1
7.5°	1193.5	1249.4	1280.4	1263.8	1230.7	1153.2	1045.6	967.0	900.8	876.0	864.6
10°	1272.1	1303.1	1339.3	1272.1	1134.6	970.1	789.1	670.2	577.1	556.4	540.9
12.5°	1322.8	1372.4	1393.1	1226.6	956.7	711.6	515.1	380.6	315.4	265.8	257.5
15°	1389.0	1445.9	1403.5	1103.5	754.0	466.4	266.8	166.5	135.5	127.2	127.2
17.5°	1434.5	1496.5	1361.1	950.5	534.7	248.2	132.4	114.8	112.7	113.8	111.7
20°	1514.1	1551.4	1296.9	772.6	319.6	127.2	106.5	102.4	100.3	103.4	101.4
22.5°	1544.1	1578.3	1192.5	559.5	143.8	84.8	79.6	76.5	78.6	77.6	76.5
25°	1542.1	1559.6	1020.8	320.6	42.4	33.1	30.0	30.0	27.9	29.0	27.9
27.5°	1557.6	1514.1	828.4	95.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30°	1565.8	1440.7	589.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	1570.0	1402.4	379.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35°	1602.0	1325.9	162.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	1623.8	1227.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	1713.7	1196.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	1830.6	1138.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	1993.0	1052.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	2208.1	1002.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	2368.4	922.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	2572.2	875.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	2814.2	877.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	3034.5	862.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	3147.2	737.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	3123.4	596.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	3040.7	468.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	2983.8	414.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	2811.1	332.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	2237.1	227.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	1423.1	139.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	655.7	64.1	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	205.8	39.3	8.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	53.8	24.8	8.3	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	27.9	17.6	7.2	3.1	2.1	0.0	0.0	0.0	0.0	0.0	0.0
85°	17.6	7.2	3.1	2.1	2.1	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	15.5	4.1	2.1	2.1	1.0	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)