

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: P481547

Luminaire Tested: **IFLD-S-SA2D-727-U-T2-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481547
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2D-727-U-T2-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens with House Side Shield
Light Source: (32) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

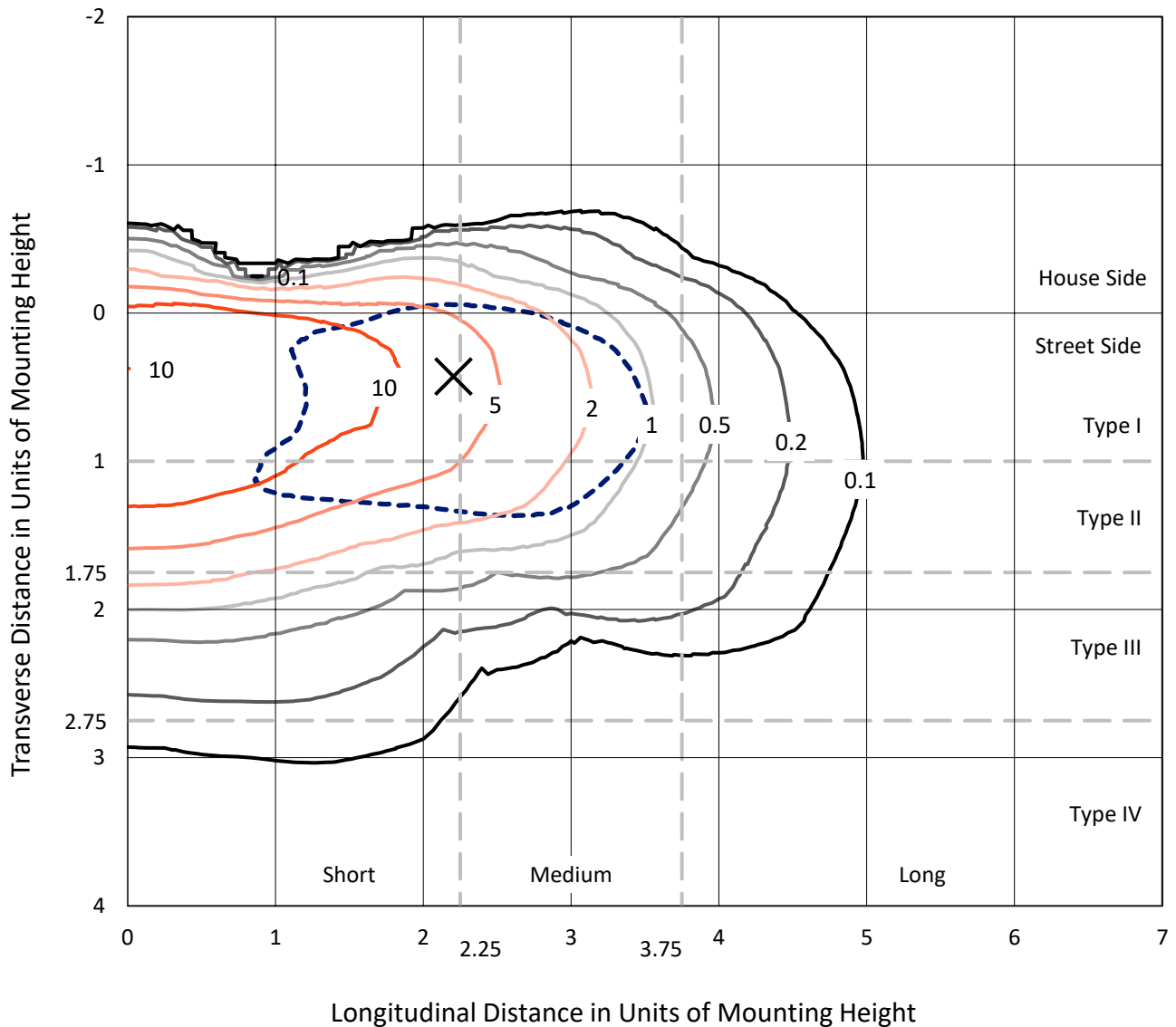
Lumens per Lamp: N/A
Luminaire Lumens: 9418.9 lumens
Efficiency: N/A
Efficacy: 76.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

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

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Iso-Footcandle Lines of Horizontal Illumination

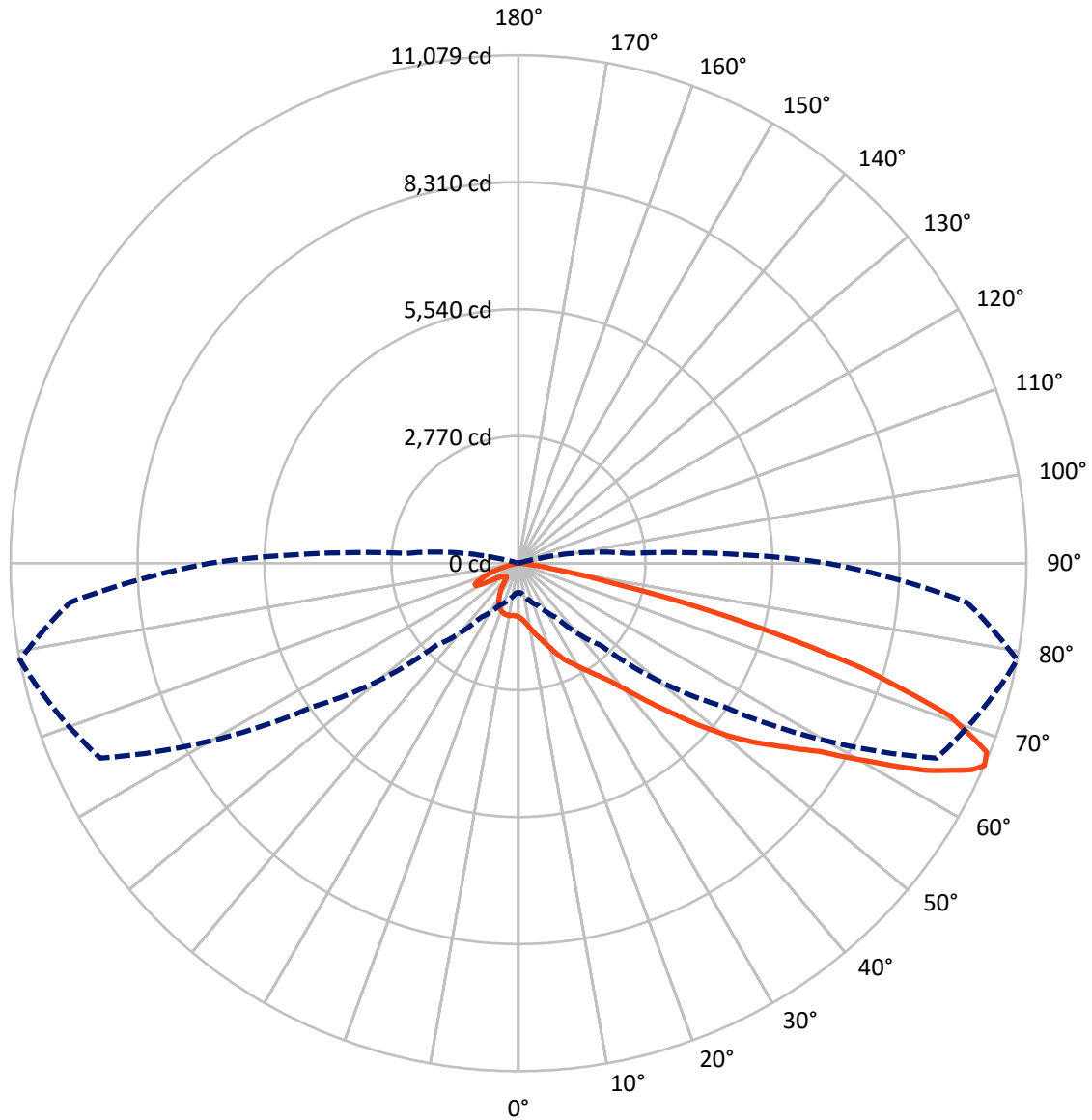
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 17.6 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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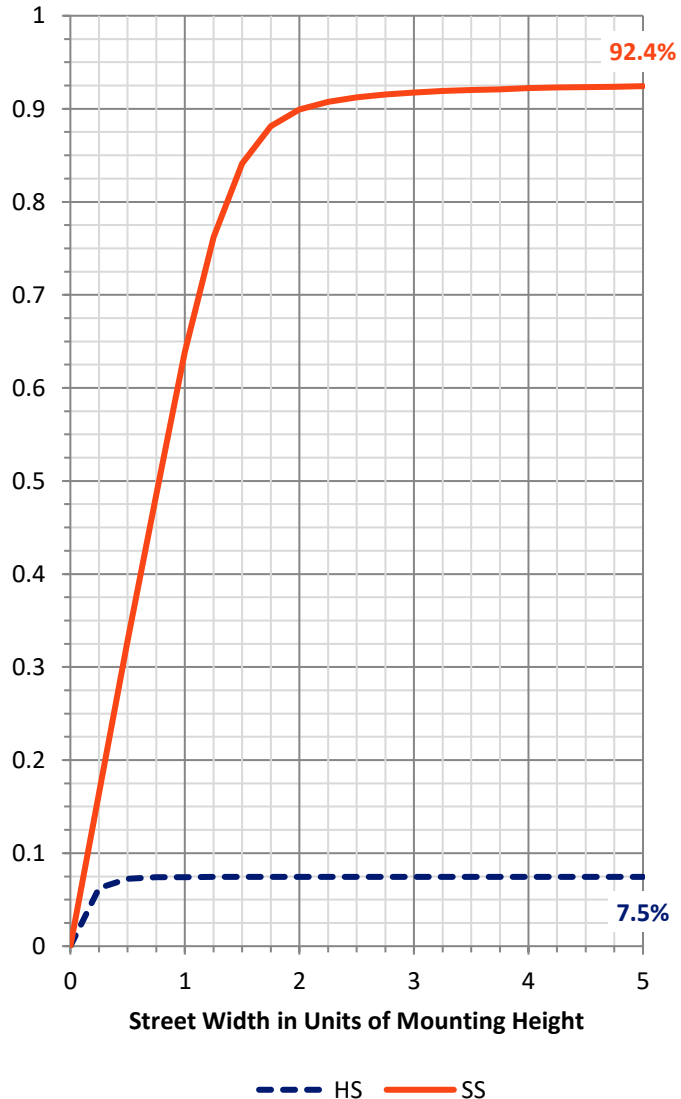
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	707.2	0.0	707.2
	% Fixture	7.5	0.0	7.5
Street Side	Lumens	8711.7	0.0	8711.7
	% Fixture	92.5	0.0	92.5
Total	Lumens	9418.9	0.0	9418.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	110.8	1.2
10°-20°	305.0	3.2
20°-30°	506.7	5.4
30°-40°	870.3	9.2
40°-50°	1576.6	16.7
50°-60°	2492.2	26.5
60°-70°	2536.0	26.9
70°-80°	967.1	10.3
80°-90°	54.2	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°	9418.9	100.0
0°-180°	9418.9	100.0

Coefficient of Utilization



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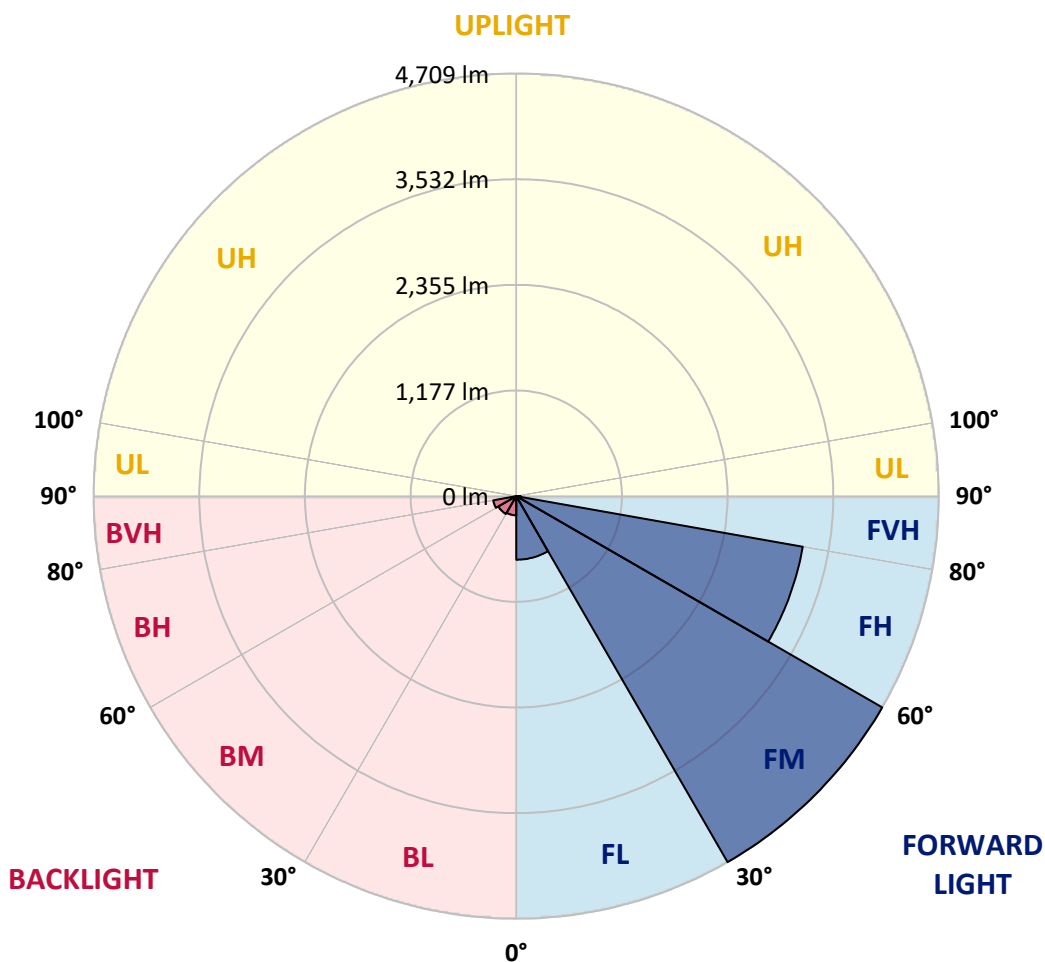
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	708.6	7.5			
FM (30°-60°)	4709.2	50.0			
FH (60°-80°)	3242.4	34.4			G2/5000
FVH (80°-90°)	51.5	0.5			G1/100
BL (0°-30°)	213.9	2.3	B1/500		
BM (30°-60°)	229.9	2.4	B1/1000		
BH (60°-80°)	260.7	2.8	B1/500		G1/500
BVH (80°-90°)	2.8	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°	1171.8	1171.8	1171.8	1171.8	1171.8	1171.8	1171.8	1171.8	1171.8	1171.8	1171.8
2.5°	1327.2	1325.7	1319.9	1309.8	1296.7	1292.4	1273.5	1247.3	1232.8	1216.8	1209.6
5°	1418.7	1411.4	1428.8	1421.6	1424.5	1389.6	1366.4	1347.5	1292.4	1270.6	1235.7
7.5°	1439.0	1446.3	1444.8	1456.4	1468.1	1481.1	1465.1	1437.6	1382.4	1350.4	1312.7
10°	1439.0	1436.1	1447.7	1463.7	1497.1	1526.1	1569.7	1533.4	1491.3	1453.5	1385.3
12.5°	1412.9	1408.5	1420.1	1453.5	1513.1	1572.6	1620.5	1655.4	1595.8	1565.3	1476.8
15°	1333.0	1328.7	1376.6	1436.1	1514.5	1611.8	1712.0	1768.6	1728.0	1680.1	1581.3
17.5°	1234.3	1240.1	1290.9	1389.6	1514.5	1630.7	1758.5	1881.9	1876.1	1815.1	1712.0
20°	1200.9	1205.2	1256.0	1327.2	1469.5	1643.8	1831.1	2005.3	2040.2	1967.6	1832.5
22.5°	1264.8	1260.4	1264.8	1308.3	1439.0	1632.1	1879.0	2146.2	2208.6	2152.0	1990.8
25°	1482.6	1479.7	1443.4	1376.6	1421.6	1606.0	1903.7	2239.1	2382.9	2330.6	2118.6
27.5°	1802.0	1790.4	1733.8	1594.4	1502.9	1622.0	1944.3	2329.1	2535.3	2475.8	2233.3
30°	2144.7	2117.1	2043.1	1868.8	1713.5	1681.5	1967.6	2395.9	2705.2	2629.7	2333.5
32.5°	2381.4	2417.7	2394.5	2217.3	1979.2	1819.5	2005.3	2480.2	2862.0	2812.7	2504.8
35°	2747.3	2789.4	2692.2	2535.3	2295.7	2038.7	2085.2	2548.4	3103.1	3020.3	2664.6
37.5°	3209.1	3241.0	3171.3	2873.7	2621.0	2308.8	2249.3	2690.7	3310.7	3271.5	2869.3
40°	3441.4	3595.3	3496.6	3228.0	2956.4	2686.3	2520.8	2857.7	3672.3	3640.4	3152.5
42.5°	3762.3	3839.3	3788.5	3589.5	3306.4	3090.0	2856.2	3183.0	4110.8	4110.8	3535.8
45°	4102.1	4105.0	4102.1	3939.5	3688.3	3576.5	3309.3	3591.0	4582.8	4635.0	3994.7
47.5°	4380.9	4468.0	4460.8	4363.5	4168.9	4126.8	3762.3	4055.7	5175.2	5266.7	4441.9
50°	4524.7	4622.0	4651.0	4701.8	4693.1	4781.7	4257.5	4594.4	5686.3	5911.4	5016.9
52.5°	4485.5	4492.7	4671.3	4871.7	5191.2	5439.5	4854.3	5205.7	6284.6	6506.8	5461.3
55°	4164.6	4137.0	4504.3	4733.8	5394.5	5841.7	5680.5	5968.0	6750.7	7089.0	5920.1
57.5°	3460.3	3467.6	3807.4	4273.5	5243.5	6001.4	6563.4	6964.2	7404.2	7745.4	6564.8
60°	2388.7	2380.0	2760.4	3299.1	4356.2	5703.8	7071.6	8255.1	8278.3	8761.8	7722.2
62.5°	1343.2	1346.1	1635.0	2095.4	3047.9	4661.2	7046.9	9625.8	9527.1	9951.1	9037.7
65°	760.9	779.8	978.7	1241.5	1825.3	3129.2	6061.0	10171.8	10489.8	10867.4	9836.4
66°	643.3	656.3	826.2	1025.2	1456.4	2538.2	5455.5	10065.8	10791.9	11079.4	9820.4
67.5°	498.1	515.5	657.8	813.2	1068.7	1757.0	4391.1	9538.7	10847.0	11015.5	9543.1
70°	341.2	352.9	461.8	617.1	730.4	898.8	2625.4	7886.2	9842.2	9984.5	8294.3
72.5°	239.6	245.4	323.8	467.6	562.0	514.0	1302.5	5610.8	7531.9	7809.3	6451.6
75°	172.8	178.6	222.2	335.4	438.5	336.9	596.8	3583.7	4619.1	4836.9	3885.8
77.5°	124.9	132.1	151.0	216.4	318.0	236.7	293.3	1871.7	2178.1	2140.4	1671.3
80°	75.5	82.8	111.8	139.4	232.3	167.0	161.2	781.2	772.5	733.3	525.7
82.5°	34.8	40.7	59.5	94.4	162.6	116.2	77.0	278.8	243.9	223.6	148.1
85°	10.2	13.1	34.8	71.2	82.8	56.6	46.5	95.8	100.2	85.7	49.4
87.5°	0.0	1.5	16.0	17.4	24.7	18.9	17.4	24.7	46.5	37.8	16.0
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°	1171.8	1171.8	1171.8	1171.8	1171.8	1171.8	1171.8	1171.8	1171.8	1171.8	1171.8
2.5°	1183.4	1173.3	1148.6	1110.8	1077.4	1060.0	1035.3	1013.6	1001.9	1000.5	999.0
5°	1212.5	1184.9	1125.4	1057.1	1006.3	951.1	913.4	885.8	859.6	834.9	849.5
7.5°	1251.7	1208.1	1110.8	1022.3	911.9	840.8	774.0	734.8	711.5	689.7	686.8
10°	1312.7	1257.5	1100.7	940.9	814.6	710.1	641.8	585.2	553.2	515.5	530.0
12.5°	1395.4	1296.7	1062.9	866.9	704.3	593.9	496.6	405.1	354.3	315.1	316.6
15°	1478.2	1349.0	1028.1	776.9	604.1	458.9	316.6	254.1	239.6	230.9	233.8
17.5°	1559.5	1391.1	974.3	685.4	489.4	291.9	230.9	217.8	210.6	201.8	201.8
20°	1658.3	1418.7	907.5	601.2	336.9	216.4	197.5	188.8	177.2	165.5	167.0
22.5°	1754.1	1441.9	830.6	493.7	226.5	187.3	165.5	153.9	143.8	132.1	132.1
25°	1849.9	1449.2	730.4	354.3	183.0	149.6	129.2	113.3	103.1	92.9	94.4
27.5°	1915.3	1404.2	636.0	226.5	146.7	113.3	90.0	77.0	68.2	58.1	58.1
30°	1953.0	1321.4	534.4	159.7	110.4	77.0	53.7	40.7	31.9	24.7	23.2
32.5°	1990.8	1254.6	419.7	122.0	72.6	40.7	20.3	7.3	0.0	0.0	0.0
35°	2066.3	1179.1	281.7	68.2	24.7	1.5	0.0	0.0	0.0	0.0	0.0
37.5°	2114.2	1074.5	129.2	10.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	2234.7	1022.3	31.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	2430.8	986.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	2645.7	971.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	2931.7	1010.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	3233.8	1116.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	3564.9	1216.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	3853.8	1337.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	4385.3	1622.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	5339.3	2181.0	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	6413.8	2596.3	16.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	6807.3	2586.2	27.6	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	6737.6	2443.8	27.6	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	6376.1	2170.9	24.7	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	5475.8	1793.3	24.7	4.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	4174.7	1396.9	23.2	5.8	1.5	0.0	0.0	0.0	0.0	0.0	0.0
75°	2519.4	743.5	18.9	7.3	2.9	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	1003.4	261.4	14.5	5.8	2.9	0.0	0.0	0.0	0.0	0.0	0.0
80°	271.5	78.4	8.7	5.8	4.4	1.5	0.0	0.0	0.0	0.0	0.0
82.5°	71.2	29.0	7.3	5.8	2.9	1.5	0.0	0.0	0.0	0.0	0.0
85°	27.6	11.6	5.8	4.4	4.4	2.9	1.5	0.0	0.0	0.0	0.0
87.5°	8.7	4.4	4.4	2.9	2.9	1.5	1.5	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)