

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: P481569

Luminaire Tested: **IFLD-M-SA4A-727-U-T2-HSS**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P481569
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4A-727-U-T2-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens with House Side Shield
Light Source: (64) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

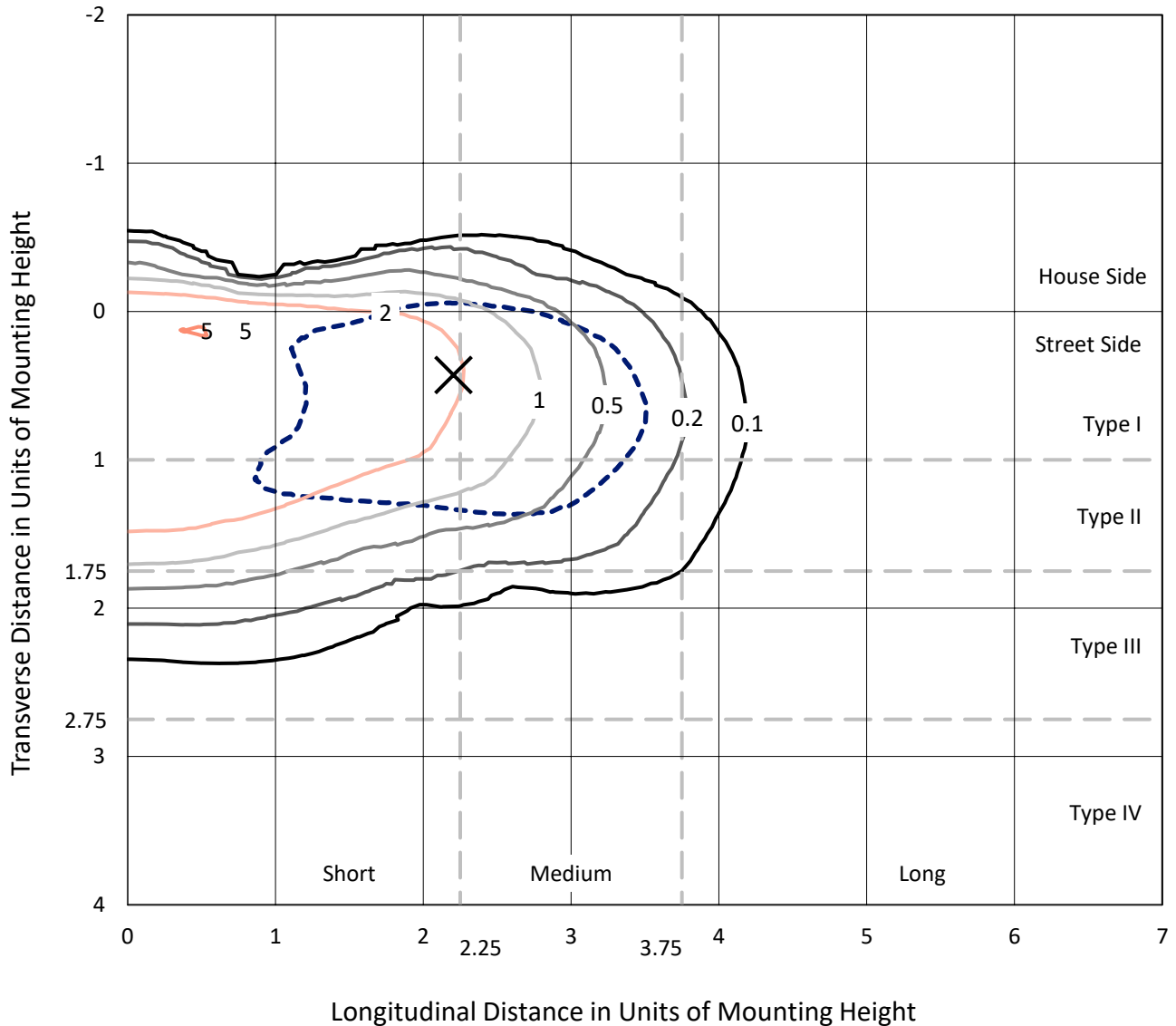
Lumens per Lamp: N/A
Luminaire Lumens: 11122 lumens
Efficiency: N/A
Efficacy: 86.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 128.6
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

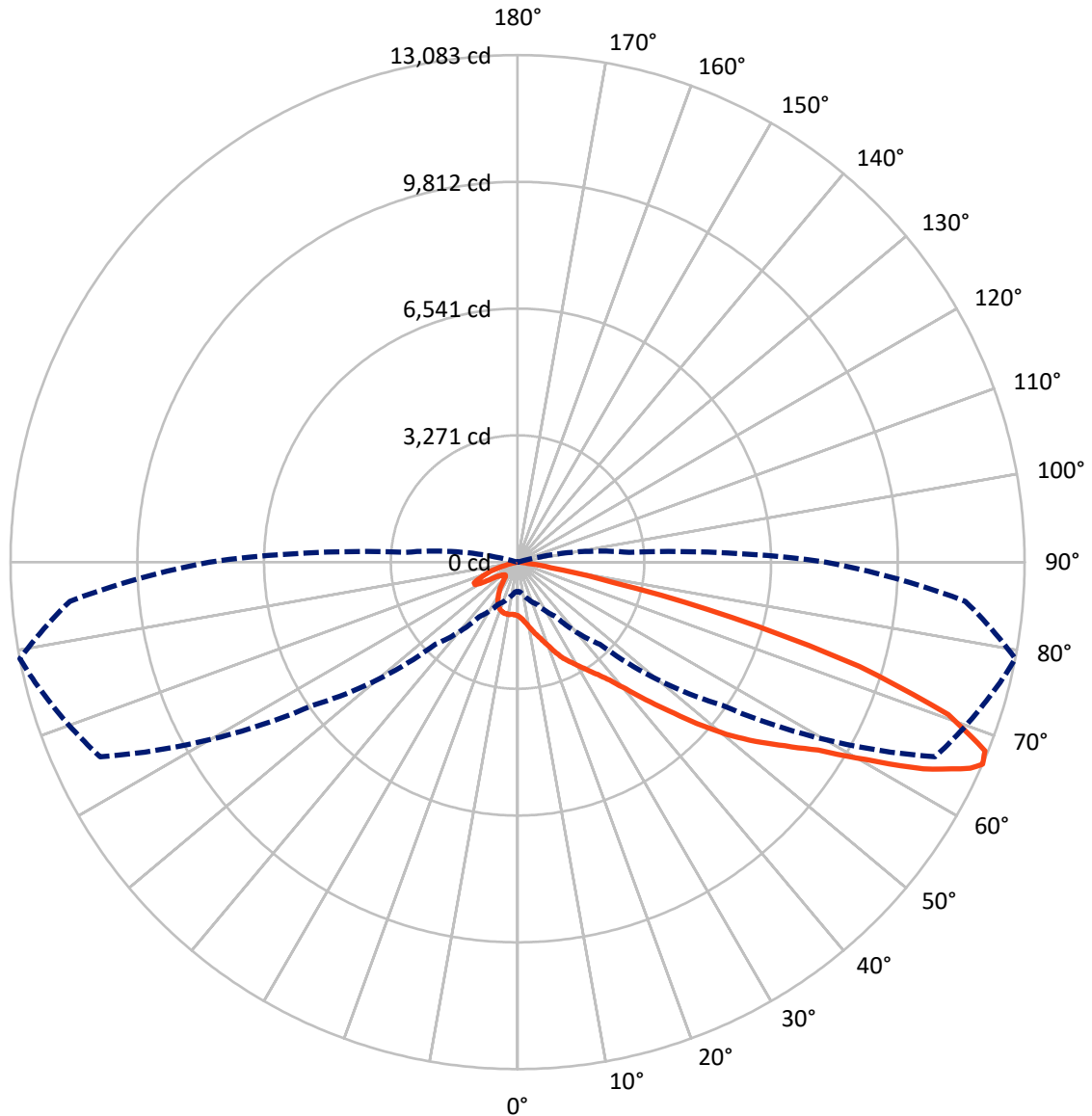
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.2 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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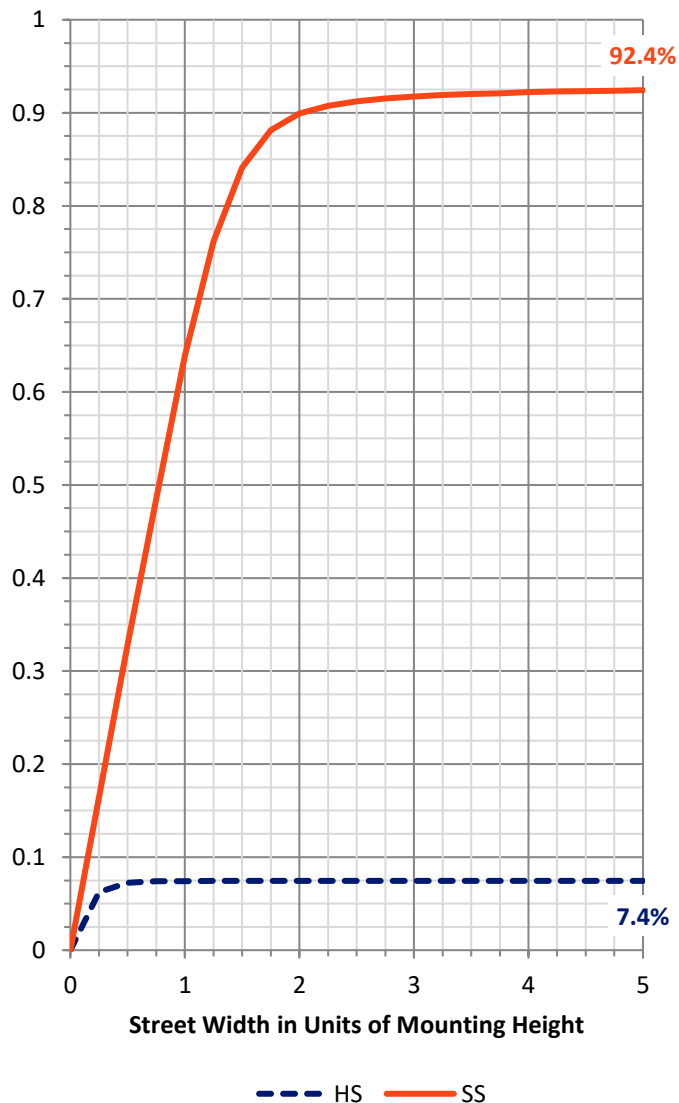
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	835.1	0.0	835.1
	% Fixture	7.5	0.0	7.5
Street Side	Lumens	10286.9	0.0	10286.9
	% Fixture	92.5	0.0	92.5
Total	Lumens	11122.0	0.0	11122.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	130.9	1.2
10°-20°	360.1	3.2
20°-30°	598.3	5.4
30°-40°	1027.6	9.2
40°-50°	1861.7	16.7
50°-60°	2942.8	26.5
60°-70°	2994.5	26.9
70°-80°	1142.0	10.3
80°-90°	64.0	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°	11122.0	100.0
0°-180°	11122.0	100.0

Coefficient of Utilization



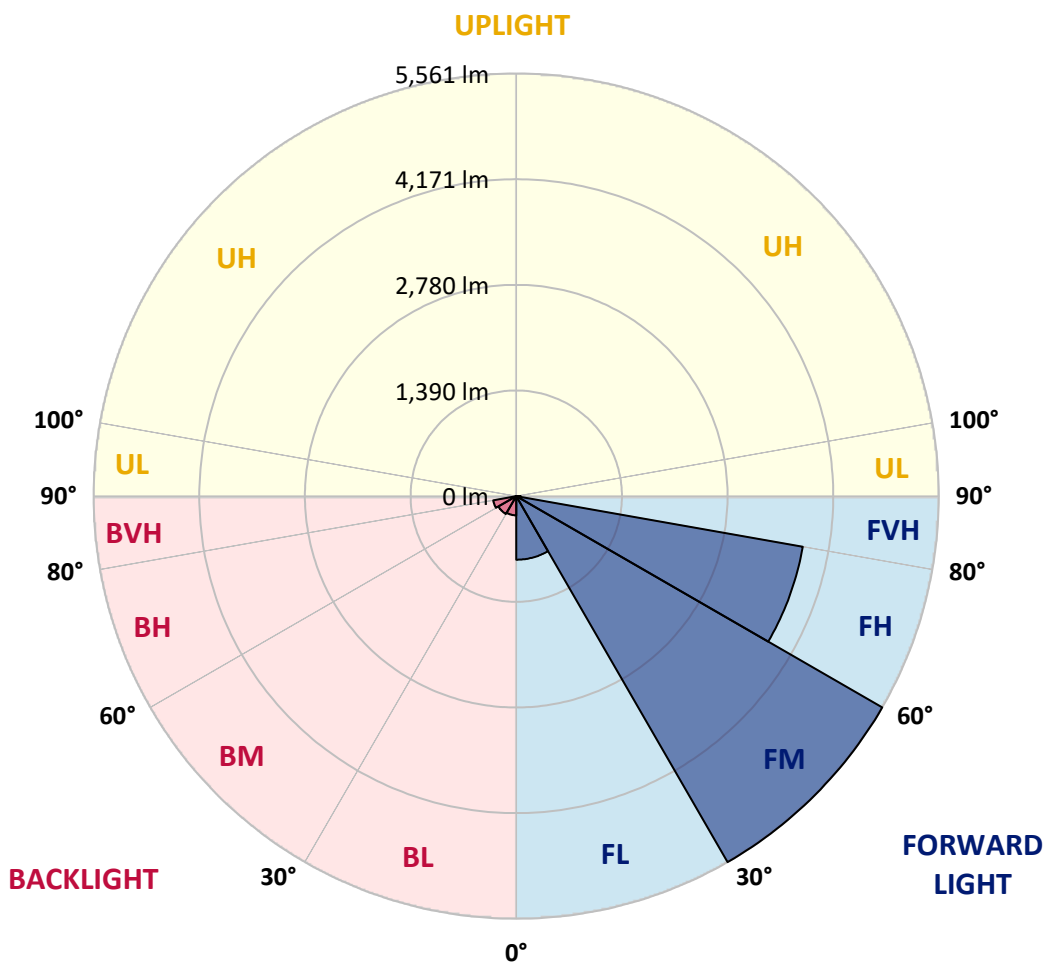
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	836.7	7.5			
FM (30°-60°)	5560.7	50.0			
FH (60°-80°)	3828.7	34.4			G2/5000
FVH (80°-90°)	60.8	0.5			G1/100
BL (0°-30°)	252.6	2.3	B1/500		
BM (30°-60°)	271.4	2.4	B1/1000		
BH (60°-80°)	307.9	2.8	B1/500		G1/500
BVH (80°-90°)	3.3	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°	1383.7	1383.7	1383.7	1383.7	1383.7	1383.7	1383.7	1383.7	1383.7	1383.7	1383.7
2.5°	1567.2	1565.5	1558.6	1546.6	1531.2	1526.0	1503.7	1472.9	1455.7	1436.9	1428.3
5°	1675.2	1666.6	1687.2	1678.6	1682.1	1640.9	1613.5	1591.2	1526.0	1500.3	1459.2
7.5°	1699.2	1707.8	1706.1	1719.8	1733.5	1748.9	1730.1	1697.5	1632.3	1594.6	1550.0
10°	1699.2	1695.8	1709.5	1728.4	1767.8	1802.1	1853.5	1810.7	1760.9	1716.3	1635.8
12.5°	1668.3	1663.2	1676.9	1716.3	1786.6	1856.9	1913.5	1954.7	1884.4	1848.4	1743.8
15°	1574.0	1568.9	1625.5	1695.8	1788.4	1903.2	2021.6	2088.4	2040.4	1983.8	1867.2
17.5°	1457.4	1464.3	1524.3	1640.9	1788.4	1925.5	2076.4	2222.2	2215.3	2143.3	2021.6
20°	1418.0	1423.1	1483.2	1567.2	1735.2	1941.0	2162.2	2367.9	2409.1	2323.3	2163.9
22.5°	1493.4	1488.3	1493.4	1544.9	1699.2	1927.2	2218.7	2534.2	2608.0	2541.1	2350.8
25°	1750.6	1747.2	1704.3	1625.5	1678.6	1896.4	2247.9	2644.0	2813.7	2752.0	2501.7
27.5°	2127.9	2114.1	2047.3	1882.7	1774.6	1915.2	2295.9	2750.3	2993.8	2923.5	2637.1
30°	2532.5	2499.9	2412.5	2206.7	2023.3	1985.5	2323.3	2829.1	3194.4	3105.2	2755.4
32.5°	2812.0	2854.9	2827.4	2618.2	2337.0	2148.4	2367.9	2928.6	3379.5	3321.2	2957.7
35°	3244.1	3293.8	3178.9	2993.8	2710.8	2407.3	2462.2	3009.2	3664.2	3566.4	3146.4
37.5°	3789.3	3827.1	3744.8	3393.3	3094.9	2726.3	2656.0	3177.2	3909.4	3863.1	3388.1
40°	4063.7	4245.4	4128.8	3811.6	3491.0	3172.1	2976.6	3374.4	4336.3	4298.6	3722.5
42.5°	4442.6	4533.5	4473.5	4238.6	3904.2	3648.7	3372.7	3758.5	4854.1	4854.1	4175.1
45°	4843.8	4847.3	4843.8	4651.8	4355.2	4223.1	3907.7	4240.3	5411.4	5473.1	4717.0
47.5°	5173.1	5275.9	5267.4	5152.5	4922.7	4873.0	4442.6	4789.0	6111.0	6219.0	5245.1
50°	5342.8	5457.7	5492.0	5552.0	5541.7	5646.3	5027.3	5425.1	6714.5	6980.3	5924.1
52.5°	5296.5	5305.1	5516.0	5752.6	6129.8	6423.0	5732.0	6147.0	7420.9	7683.3	6448.7
55°	4917.6	4885.0	5318.8	5589.7	6369.9	6898.0	6707.7	7047.2	7971.3	8370.8	6990.6
57.5°	4086.0	4094.5	4495.8	5046.2	6191.5	7086.6	7750.2	8223.4	8742.9	9145.9	7751.9
60°	2820.6	2810.3	3259.5	3895.7	5143.9	6735.1	8350.3	9747.7	9775.1	10346.1	9118.4
62.5°	1586.0	1589.5	1930.7	2474.2	3599.0	5504.0	8321.1	11366.3	11249.7	11750.4	10671.9
65°	898.5	920.8	1155.7	1466.0	2155.3	3695.0	7156.9	12011.0	12386.5	12832.3	11614.9
66°	759.6	775.0	975.6	1210.5	1719.8	2997.2	6441.9	11885.9	12743.2	13082.7	11596.1
67.5°	588.1	608.7	776.7	960.2	1262.0	2074.7	5185.1	11263.4	12808.3	13007.2	11268.6
70°	402.9	416.7	545.3	728.7	862.5	1061.4	3100.1	9312.2	11621.8	11789.8	9794.0
72.5°	282.9	289.8	382.4	552.1	663.6	607.0	1538.0	6625.3	8893.8	9221.3	7618.1
75°	204.0	210.9	262.3	396.1	517.8	397.8	704.7	4231.7	5454.3	5711.4	4588.4
77.5°	147.5	156.0	178.3	255.5	375.5	279.5	346.4	2210.2	2572.0	2527.4	1973.5
80°	89.2	97.7	132.0	164.6	274.3	197.2	190.3	922.5	912.2	865.9	620.7
82.5°	41.2	48.0	70.3	111.5	192.0	137.2	90.9	329.2	288.1	264.1	174.9
85°	12.0	15.4	41.2	84.0	97.7	66.9	54.9	113.2	118.3	101.2	58.3
87.5°	0.0	1.7	18.9	20.6	29.1	22.3	20.6	29.1	54.9	44.6	18.9
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°	1383.7	1383.7	1383.7	1383.7	1383.7	1383.7	1383.7	1383.7	1383.7	1383.7	1383.7
2.5°	1397.4	1385.4	1356.3	1311.7	1272.3	1251.7	1222.5	1196.8	1183.1	1181.4	1179.7
5°	1431.7	1399.1	1328.8	1248.3	1188.2	1123.1	1078.5	1045.9	1015.1	985.9	1003.1
7.5°	1478.0	1426.6	1311.7	1207.1	1076.8	992.8	913.9	867.6	840.2	814.5	811.0
10°	1550.0	1484.9	1299.7	1111.1	961.9	838.5	757.9	691.0	653.3	608.7	625.8
12.5°	1647.8	1531.2	1255.1	1023.6	831.6	701.3	586.4	478.4	418.4	372.1	373.8
15°	1745.5	1592.9	1214.0	917.3	713.3	541.8	373.8	300.1	282.9	272.6	276.1
17.5°	1841.5	1642.6	1150.5	809.3	577.8	344.6	272.6	257.2	248.6	238.3	238.3
20°	1958.1	1675.2	1071.6	709.9	397.8	255.5	233.2	222.9	209.2	195.5	197.2
22.5°	2071.3	1702.6	980.8	583.0	267.5	221.2	195.5	181.8	169.7	156.0	156.0
25°	2184.4	1711.2	862.5	418.4	216.0	176.6	152.6	133.7	121.7	109.7	111.5
27.5°	2261.6	1658.1	751.0	267.5	173.2	133.7	106.3	90.9	80.6	68.6	68.6
30°	2306.2	1560.3	631.0	188.6	130.3	90.9	63.4	48.0	37.7	29.1	27.4
32.5°	2350.8	1481.4	495.5	144.0	85.7	48.0	24.0	8.6	0.0	0.0	0.0
35°	2439.9	1392.3	332.6	80.6	29.1	1.7	0.0	0.0	0.0	0.0	0.0
37.5°	2496.5	1268.8	152.6	12.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	2638.8	1207.1	37.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	2870.3	1164.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	3124.1	1147.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	3461.8	1193.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	3818.5	1318.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	4209.4	1436.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	4550.6	1579.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	5178.2	1915.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	6304.7	2575.4	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	7573.5	3065.8	18.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	8038.2	3053.8	32.6	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	7955.9	2885.7	32.6	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	7529.0	2563.4	29.1	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	6465.9	2117.6	29.1	5.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	4929.6	1649.5	27.4	6.9	1.7	0.0	0.0	0.0	0.0	0.0	0.0
75°	2974.9	877.9	22.3	8.6	3.4	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	1184.8	308.6	17.1	6.9	3.4	0.0	0.0	0.0	0.0	0.0	0.0
80°	320.6	92.6	10.3	6.9	5.1	1.7	0.0	0.0	0.0	0.0	0.0
82.5°	84.0	34.3	8.6	6.9	3.4	1.7	0.0	0.0	0.0	0.0	0.0
85°	32.6	13.7	6.9	5.1	5.1	3.4	1.7	0.0	0.0	0.0	0.0
87.5°	10.3	5.1	5.1	3.4	3.4	1.7	1.7	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)