

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: P482370

Luminaire Tested: **IFLD-S-SA3C-730-U-T3-HSS**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P482370
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3C-730-U-T3-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3
distribution lens with House Side Shield
Light Source: (48) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

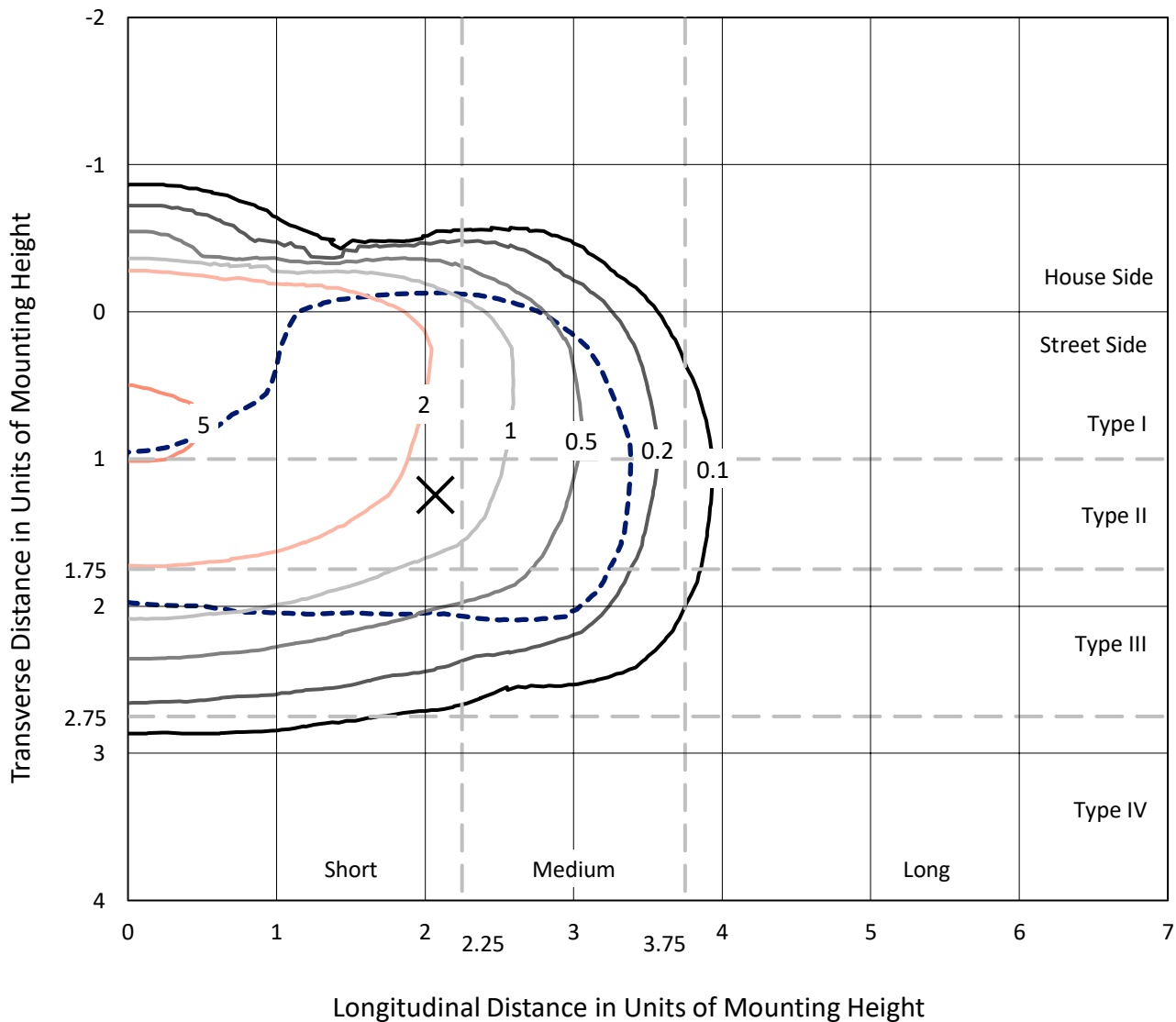
Lumens per Lamp: N/A
Luminaire Lumens: 14312.4 lumens
Efficiency: N/A
Efficacy: 89.0 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 160.8
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

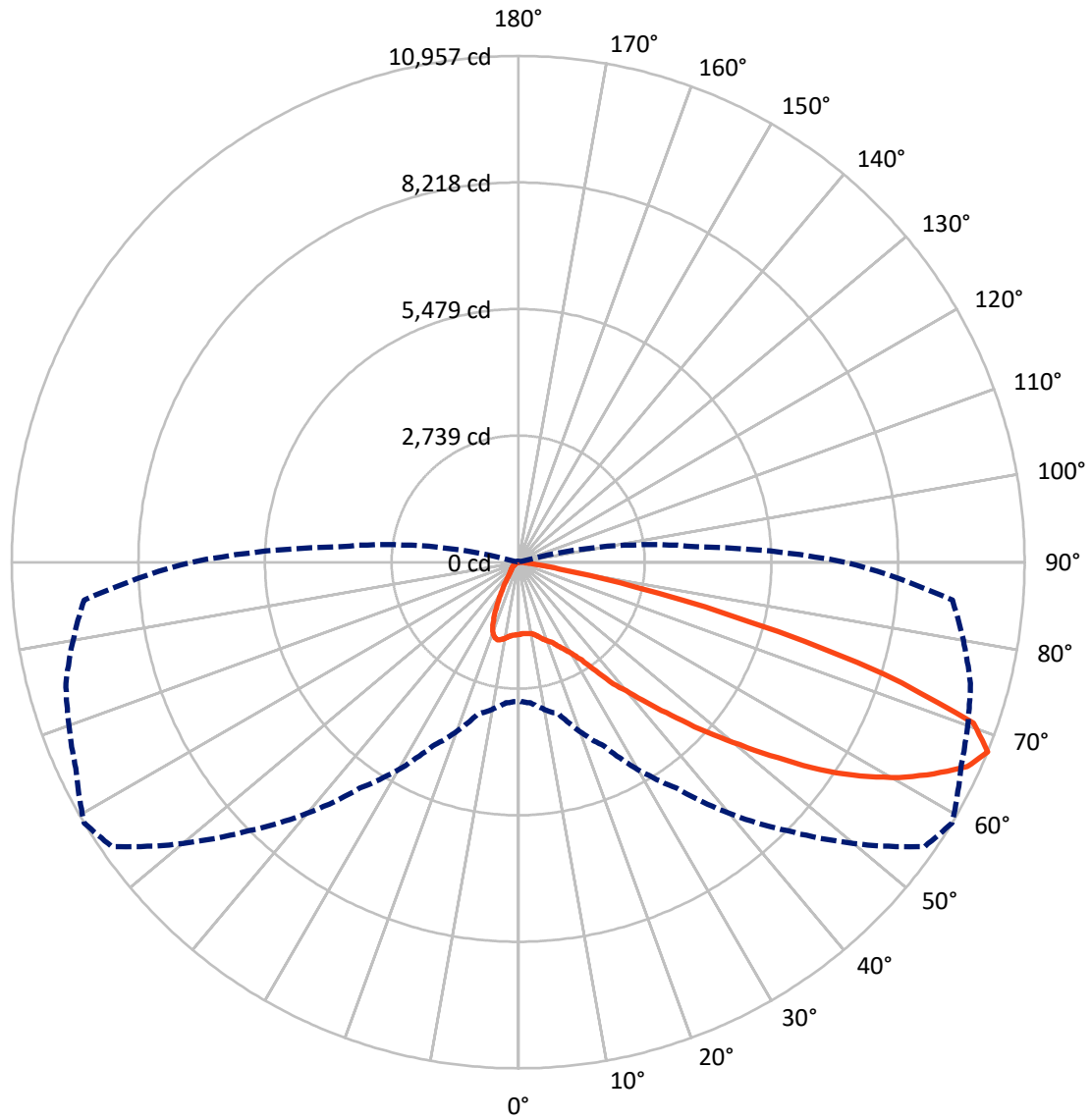
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.6 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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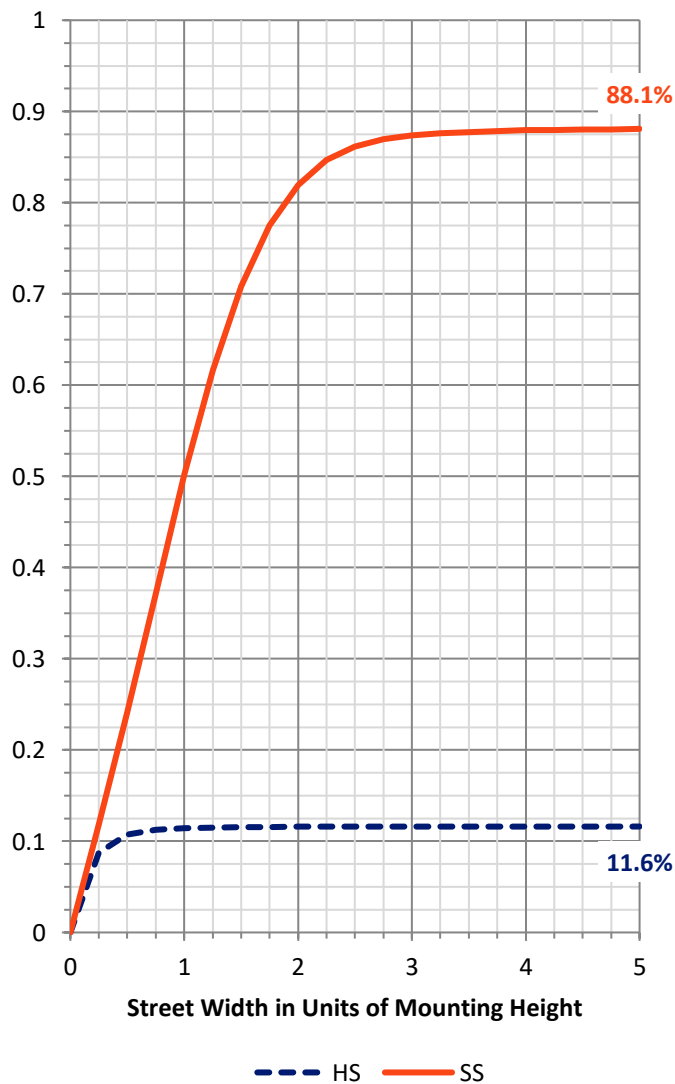
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1681.2	0.0	1681.2
	% Fixture	11.7	0.0	11.7
Street Side	Lumens	12631.2	0.0	12631.2
	% Fixture	88.3	0.0	88.3
Total	Lumens	14312.4	0.0	14312.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	149.1	1.0
10°-20°	430.7	3.0
20°-30°	752.8	5.3
30°-40°	1325.4	9.3
40°-50°	2342.9	16.4
50°-60°	3709.7	25.9
60°-70°	4115.1	28.8
70°-80°	1427.8	10.0
80°-90°	58.8	0.4
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°	14312.4	100.0
0°-180°	14312.4	100.0

Coefficient of Utilization

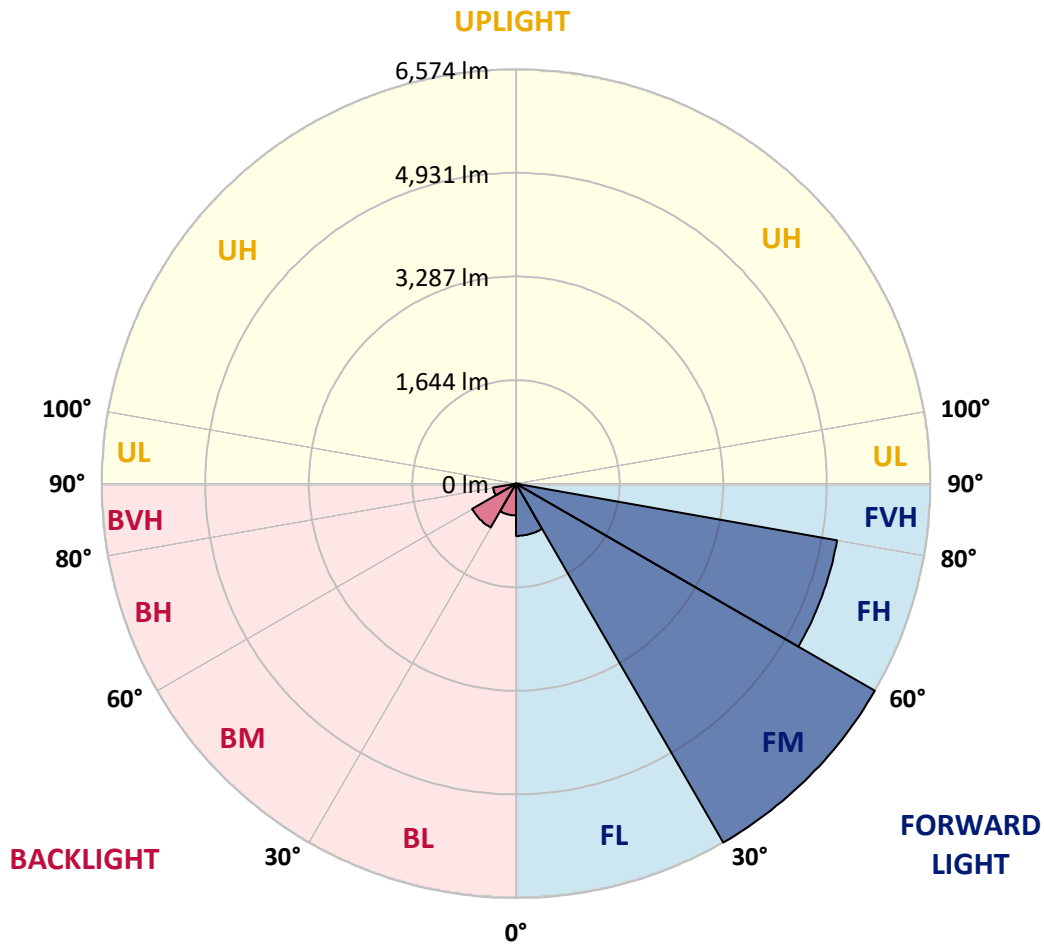


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	828.8	5.8			
FM (30°-60°)	6574.2	45.9			
FH (60°-80°)	5173.2	36.1			G3/7500
FVH (80°-90°)	55.0	0.4			G1/100
BL (0°-30°)	503.9	3.5	B2/1000		
BM (30°-60°)	803.8	5.6	B1/1000		
BH (60°-80°)	369.7	2.6	B1/500		G1/500
BVH (80°-90°)	3.8	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	1569.8	1569.8	1569.8	1569.8	1569.8	1569.8	1569.8	1569.8	1569.8	1569.8	1569.8
2.5°	1524.3	1502.6	1522.4	1524.3	1526.3	1544.1	1563.9	1550.0	1548.1	1563.9	1577.7
5°	1463.0	1453.2	1476.9	1488.8	1508.5	1524.3	1556.0	1557.9	1559.9	1577.7	1601.4
7.5°	1437.3	1413.6	1441.3	1455.1	1469.0	1506.5	1544.1	1563.9	1591.6	1613.3	1637.0
10°	1385.9	1403.7	1411.6	1435.4	1474.9	1518.4	1563.9	1573.8	1635.1	1652.9	1710.2
12.5°	1403.7	1415.6	1431.4	1437.3	1480.8	1546.1	1607.4	1611.3	1674.6	1751.7	1781.4
15°	1449.2	1441.3	1447.2	1455.1	1506.5	1559.9	1658.8	1676.6	1735.9	1822.9	1896.0
17.5°	1546.1	1532.2	1522.4	1520.4	1532.2	1581.7	1698.3	1751.7	1807.1	1925.7	1963.3
20°	1789.3	1777.4	1737.9	1635.1	1599.5	1619.2	1745.8	1820.9	1898.0	2030.5	2091.8
22.5°	2159.0	2170.8	2077.9	1933.6	1785.3	1708.2	1820.9	1886.1	2008.7	2176.8	2232.1
25°	2595.9	2572.2	2459.5	2291.5	2058.2	1876.3	1941.5	2014.7	2164.9	2303.3	2325.1
27.5°	2938.0	2910.3	2823.3	2619.6	2418.0	2123.4	2099.7	2145.1	2323.1	2447.6	2423.9
30°	3276.0	3285.9	3226.6	2985.4	2736.3	2425.9	2275.6	2295.4	2431.8	2592.0	2538.6
32.5°	3707.1	3683.3	3649.7	3438.2	3143.6	2811.4	2554.4	2522.8	2582.1	2793.6	2730.4
35°	4108.4	4094.6	4049.1	3835.6	3578.5	3216.7	2965.6	2894.5	2880.6	3115.9	3005.2
37.5°	4458.3	4434.6	4365.4	4229.0	3979.9	3675.4	3400.6	3337.3	3335.4	3497.5	3284.0
40°	4752.9	4770.7	4762.8	4612.6	4476.1	4233.0	3811.8	3711.0	3703.1	3790.1	3665.5
42.5°	5134.5	5176.0	5154.3	5124.6	4960.5	4865.6	4389.1	4234.9	4165.7	4343.7	4231.0
45°	5711.8	5727.6	5741.5	5668.3	5504.2	5524.0	4986.2	4802.4	4784.6	5049.5	4796.4
47.5°	6251.6	6210.1	6306.9	6310.9	6303.0	6212.0	5630.8	5494.3	5518.1	5719.7	5458.8
50°	6386.0	6492.8	6759.7	6809.1	6937.6	7020.7	6346.5	6210.1	6249.6	6478.9	6180.4
52.5°	6490.8	6652.9	6919.8	7281.6	7627.6	7825.3	7147.2	7036.5	7034.5	7174.9	6763.6
55°	6674.7	6773.5	7004.8	7503.1	8161.4	8485.7	8112.0	7934.1	7773.9	7872.8	7368.6
57.5°	6656.9	6694.4	7054.3	7669.1	8584.5	9173.7	8904.8	8734.8	8529.2	8471.8	8064.6
60°	6344.5	6433.5	6836.8	7556.5	8845.5	9709.5	9644.3	9470.3	9116.4	8981.9	8598.4
62.5°	5725.7	5844.3	6160.6	7161.0	8465.9	9737.2	10154.4	10089.1	9693.7	9452.5	9294.3
65°	4640.2	4695.6	5059.4	6156.7	7607.9	9312.1	10757.4	10676.3	10312.5	9952.7	9652.2
67.5°	3005.2	3058.6	3408.5	4395.1	5974.8	8214.8	10733.6	10957.1	10563.6	10130.6	9428.8
70°	1419.6	1405.7	1731.9	2441.7	3827.7	6273.3	10008.0	10448.9	10114.8	9183.6	7831.3
72.5°	433.0	470.5	719.7	1081.5	1965.2	3912.7	7845.1	8258.3	8153.5	7337.0	5227.4
75°	191.8	207.6	282.7	442.9	796.8	1605.4	4845.9	5213.6	5168.1	4327.9	2386.4
77.5°	122.6	134.4	177.9	253.1	361.8	510.1	2232.1	2590.0	2510.9	1520.4	624.8
80°	87.0	92.9	126.5	174.0	227.4	209.6	769.1	913.4	875.9	413.2	168.1
82.5°	47.5	51.4	92.9	128.5	152.2	106.8	215.5	268.9	280.7	183.9	81.1
85°	17.8	21.7	57.3	90.9	79.1	49.4	63.3	77.1	100.8	100.8	37.6
87.5°	0.0	2.0	23.7	39.5	19.8	13.8	17.8	21.7	27.7	47.5	13.8
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°	1569.8	1569.8	1569.8	1569.8	1569.8	1569.8	1569.8	1569.8	1569.8	1569.8	1569.8
2.5°	1587.6	1573.8	1579.7	1589.6	1567.8	1579.7	1556.0	1573.8	1579.7	1556.0	1567.8
5°	1607.4	1621.2	1613.3	1597.5	1583.7	1587.6	1581.7	1567.8	1579.7	1583.7	1575.7
7.5°	1664.7	1648.9	1652.9	1635.1	1607.4	1605.4	1567.8	1557.9	1561.9	1565.9	1552.0
10°	1718.1	1728.0	1708.2	1694.4	1648.9	1619.2	1567.8	1512.5	1506.5	1482.8	1502.6
12.5°	1813.0	1789.3	1781.4	1735.9	1690.4	1591.6	1480.8	1395.8	1324.7	1299.0	1273.2
15°	1892.1	1888.1	1874.3	1805.1	1700.3	1520.4	1310.8	1113.1	976.7	891.7	879.8
17.5°	2000.8	1983.0	1957.3	1848.6	1627.1	1334.5	976.7	727.6	591.2	537.8	518.0
20°	2083.9	2070.0	2034.4	1838.7	1494.7	994.5	605.0	462.6	429.0	419.1	421.1
22.5°	2204.5	2161.0	2093.7	1789.3	1253.5	662.3	435.0	413.2	407.3	399.4	401.4
25°	2309.2	2269.7	2129.3	1704.3	893.6	438.9	403.3	391.5	381.6	371.7	369.7
27.5°	2402.2	2352.7	2166.9	1530.3	559.5	377.6	373.7	359.8	340.1	324.2	318.3
30°	2493.1	2435.8	2176.8	1204.1	377.6	342.0	332.2	310.4	284.7	263.0	259.0
32.5°	2645.4	2576.2	2162.9	860.0	326.2	304.5	282.7	257.0	219.5	201.7	197.7
35°	2882.6	2777.8	2145.1	506.1	292.6	268.9	235.3	201.7	174.0	156.2	152.2
37.5°	3155.4	2973.5	2093.7	338.1	268.9	237.3	193.8	160.1	136.4	122.6	118.6
40°	3560.7	3260.2	1896.0	276.8	239.2	201.7	156.2	126.5	108.7	98.9	94.9
42.5°	4007.6	3588.4	1591.6	249.1	211.5	172.0	124.6	102.8	89.0	79.1	79.1
45°	4543.4	3930.5	1227.8	227.4	187.8	142.4	102.8	83.0	71.2	63.3	59.3
47.5°	5140.4	4240.9	828.4	205.6	158.2	116.6	85.0	63.3	51.4	45.5	45.5
50°	5674.3	4515.7	527.9	179.9	138.4	96.9	69.2	51.4	41.5	33.6	31.6
52.5°	6158.6	4725.3	363.8	158.2	118.6	79.1	57.3	41.5	31.6	25.7	25.7
55°	6654.9	4832.0	268.9	136.4	102.8	67.2	47.5	37.6	27.7	21.7	19.8
57.5°	7062.2	4877.5	205.6	118.6	87.0	53.4	41.5	31.6	23.7	17.8	15.8
60°	7410.1	4855.7	160.1	98.9	69.2	45.5	35.6	25.7	19.8	13.8	11.9
62.5°	7613.8	4725.3	126.5	85.0	55.4	39.5	29.7	21.7	13.8	9.9	7.9
65°	7617.7	4448.5	98.9	63.3	41.5	33.6	25.7	17.8	9.9	4.0	2.0
67.5°	7072.1	3849.4	79.1	49.4	33.6	25.7	19.8	13.8	4.0	0.0	0.0
70°	5531.9	2912.3	65.2	39.5	27.7	21.7	13.8	7.9	2.0	0.0	0.0
72.5°	3525.2	1743.8	53.4	31.6	23.7	15.8	9.9	5.9	0.0	0.0	0.0
75°	1474.9	537.8	41.5	27.7	17.8	11.9	7.9	2.0	0.0	0.0	0.0
77.5°	379.6	170.0	33.6	23.7	17.8	9.9	5.9	2.0	0.0	0.0	0.0
80°	112.7	63.3	27.7	19.8	13.8	7.9	4.0	2.0	0.0	0.0	0.0
82.5°	51.4	37.6	23.7	17.8	11.9	7.9	4.0	0.0	0.0	0.0	0.0
85°	19.8	11.9	11.9	9.9	9.9	5.9	2.0	0.0	0.0	0.0	0.0
87.5°	7.9	4.0	4.0	4.0	2.0	2.0	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)