

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: P482488

Luminaire Tested: **IFLD-S-SA3D-750-U-T3-HSS**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P482488
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3D-750-U-T3-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3
distribution lens with House Side Shield
Light Source: (48) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

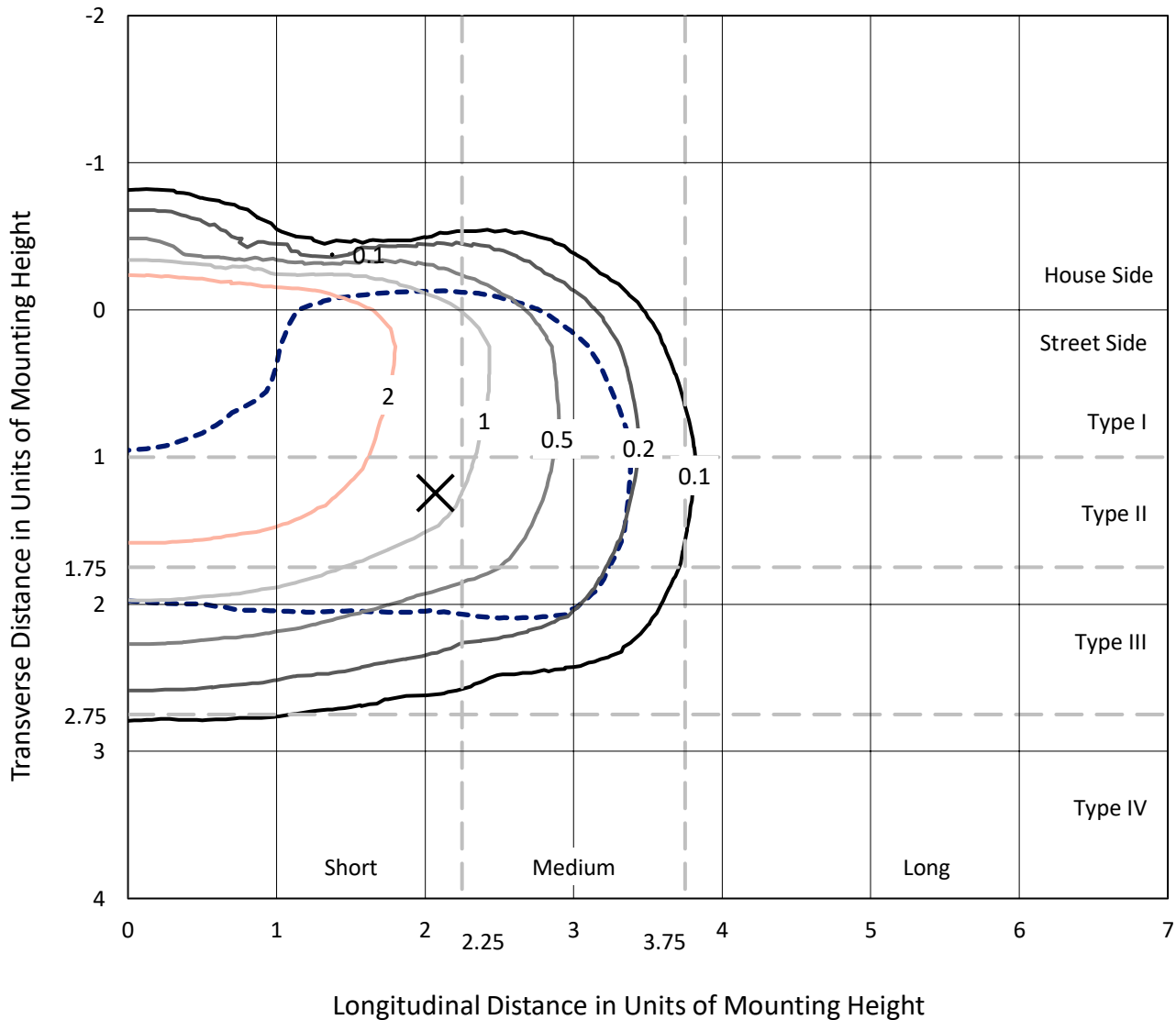
Lumens per Lamp: N/A
Luminaire Lumens: 17690.4 lumens
Efficiency: N/A
Efficacy: 96.1 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 184.1
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

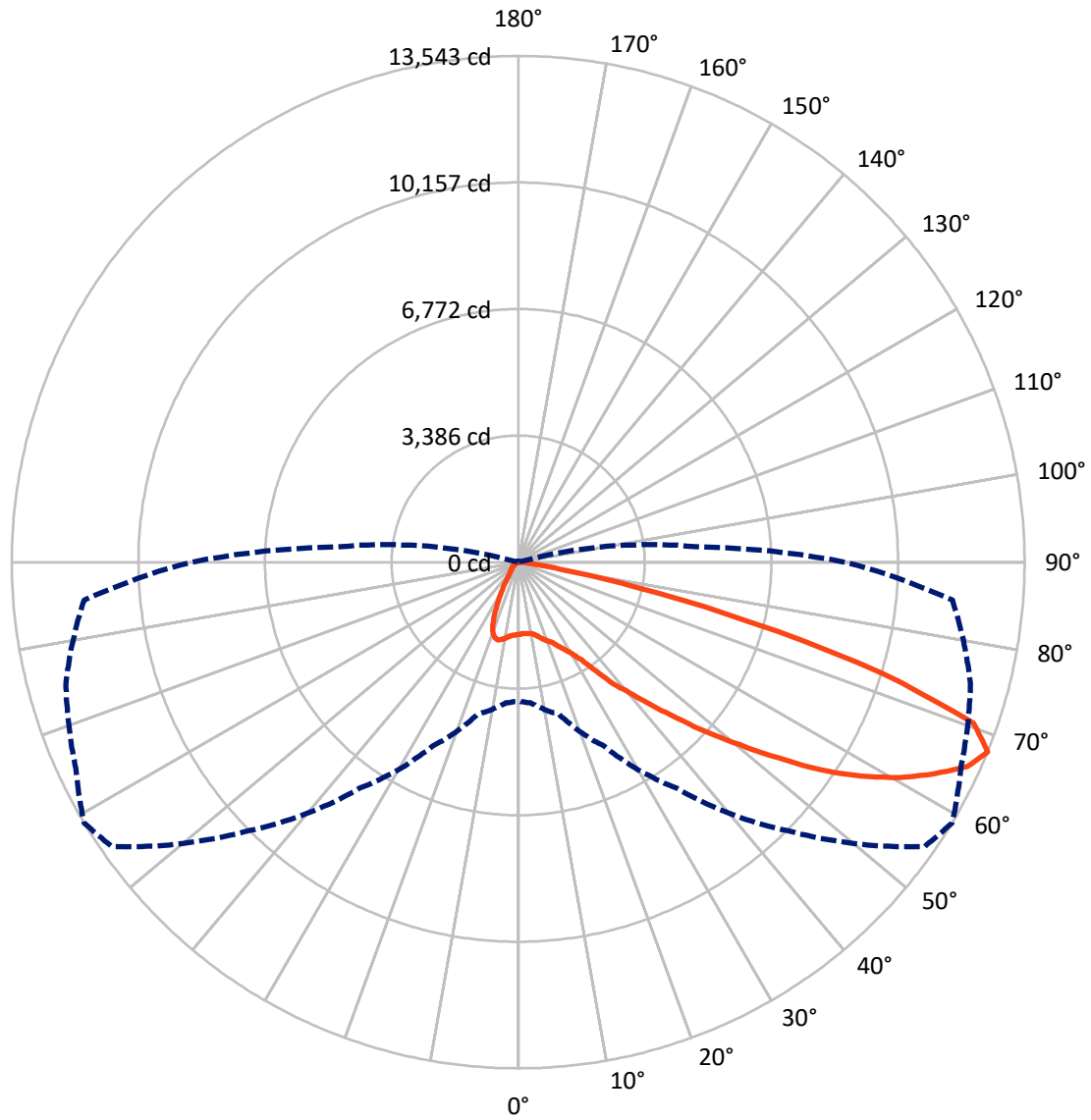
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.4 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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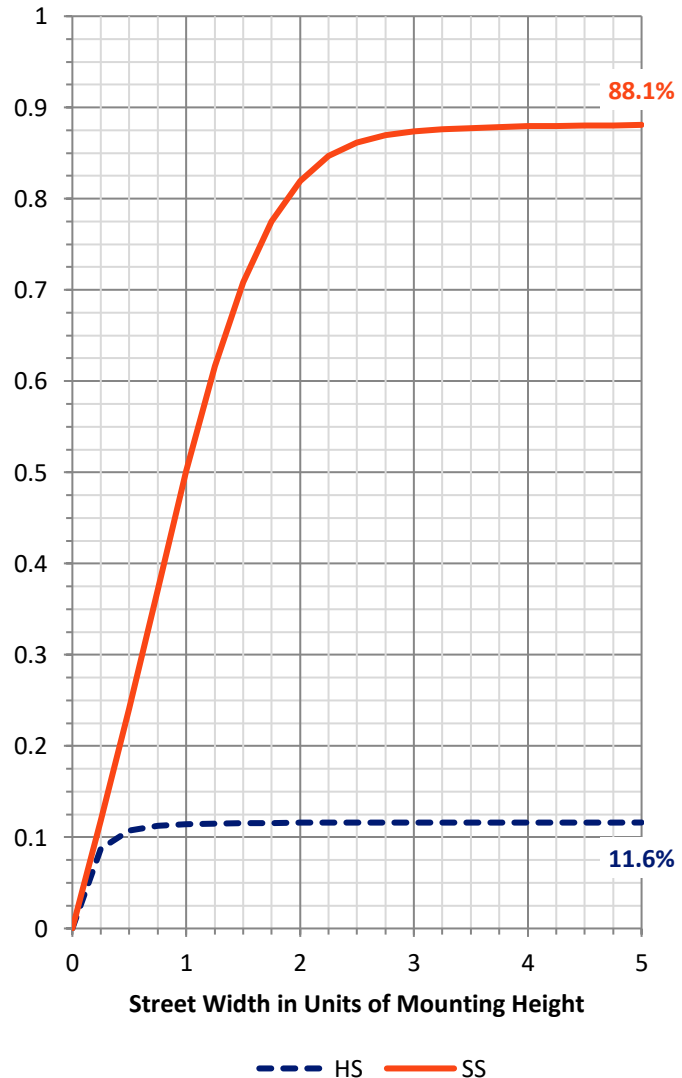
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2078.0	0.0	2078.0
	% Fixture	11.7	0.0	11.7
Street Side	Lumens	15612.4	0.0	15612.4
	% Fixture	88.3	0.0	88.3
Total	Lumens	17690.4	0.0	17690.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	184.3	1.0
10°-20°	532.4	3.0
20°-30°	930.5	5.3
30°-40°	1638.2	9.3
40°-50°	2895.9	16.4
50°-60°	4585.2	25.9
60°-70°	5086.3	28.8
70°-80°	1764.8	10.0
80°-90°	72.7	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°	17690.4	100.0
0°-180°	17690.4	100.0

Coefficient of Utilization

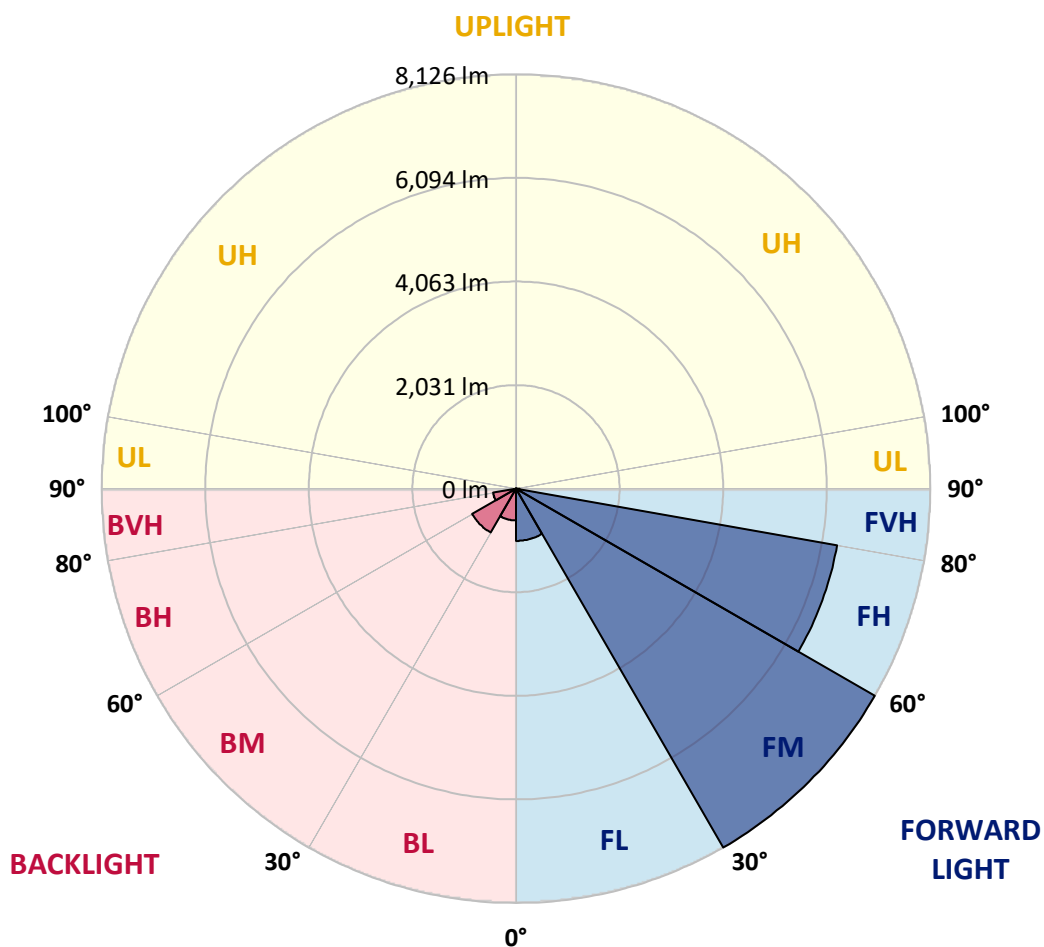


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1024.4	5.8			
FM (30°-60°)	8125.9	45.9			
FH (60°-80°)	6394.1	36.1			G3/7500
FVH (80°-90°)	68.0	0.4			G1/100
BL (0°-30°)	622.8	3.5	B2/1000		
BM (30°-60°)	993.5	5.6	B1/1000		
BH (60°-80°)	457.0	2.6	B1/500		G1/500
BVH (80°-90°)	4.7	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°	1940.3	1940.3	1940.3	1940.3	1940.3	1940.3	1940.3	1940.3	1940.3	1940.3	1940.3
2.5°	1884.1	1857.2	1881.7	1884.1	1886.6	1908.6	1933.0	1915.9	1913.4	1933.0	1950.1
5°	1808.4	1796.1	1825.5	1840.1	1864.6	1884.1	1923.2	1925.7	1928.1	1950.1	1979.4
7.5°	1776.6	1747.3	1781.5	1798.6	1815.7	1862.1	1908.6	1933.0	1967.2	1994.1	2023.4
10°	1713.1	1735.0	1744.8	1774.1	1823.0	1876.8	1933.0	1945.2	2021.0	2043.0	2113.8
12.5°	1735.0	1749.7	1769.3	1776.6	1830.4	1911.0	1986.8	1991.6	2069.8	2165.1	2201.8
15°	1791.3	1781.5	1788.8	1798.6	1862.1	1928.1	2050.3	2072.3	2145.6	2253.1	2343.5
17.5°	1911.0	1893.9	1881.7	1879.2	1893.9	1955.0	2099.2	2165.1	2233.6	2380.2	2426.6
20°	2211.6	2196.9	2148.0	2021.0	1977.0	2001.4	2157.8	2250.7	2346.0	2509.7	2585.5
22.5°	2668.6	2683.2	2568.4	2390.0	2206.7	2111.4	2250.7	2331.3	2482.8	2690.5	2759.0
25°	3208.6	3179.3	3040.0	2832.3	2543.9	2319.1	2399.7	2490.2	2675.9	2846.9	2873.8
27.5°	3631.4	3597.2	3489.6	3237.9	2988.7	2624.6	2595.2	2651.4	2871.4	3025.3	2996.0
30°	4049.3	4061.5	3988.2	3690.0	3382.1	2998.5	2812.7	2837.2	3005.8	3203.7	3137.7
32.5°	4582.0	4552.7	4511.1	4249.6	3885.5	3475.0	3157.3	3118.2	3191.5	3453.0	3374.8
35°	5078.1	5061.0	5004.8	4740.8	4423.1	3975.9	3665.6	3577.6	3560.5	3851.3	3714.5
37.5°	5510.6	5481.3	5395.8	5227.1	4919.2	4542.9	4203.2	4125.0	4122.6	4323.0	4059.0
40°	5874.7	5896.7	5886.9	5701.2	5532.6	5232.0	4711.5	4586.9	4577.1	4684.6	4530.7
42.5°	6346.4	6397.7	6370.8	6334.1	6131.3	6014.0	5425.1	5234.5	5148.9	5368.9	5229.6
45°	7059.9	7079.5	7096.6	7006.2	6803.3	6827.8	6163.1	5935.8	5913.8	6241.3	5928.5
47.5°	7727.1	7675.7	7795.5	7800.4	7790.6	7678.2	6959.7	6791.1	6820.4	7069.7	6747.1
50°	7893.2	8025.2	8355.1	8416.2	8575.0	8677.7	7844.4	7675.7	7724.6	8008.1	7639.1
52.5°	8022.8	8223.1	8553.0	9000.2	9427.9	9672.3	8834.1	8697.2	8694.8	8868.3	8360.0
55°	8250.0	8372.2	8658.1	9273.9	10087.7	10488.5	10026.6	9806.7	9608.7	9730.9	9107.8
57.5°	8228.0	8274.5	8719.2	9479.2	10610.7	11338.9	11006.6	10796.4	10542.2	10471.4	9968.0
60°	7841.9	7951.9	8450.4	9339.9	10933.2	12001.1	11920.5	11705.5	11268.0	11101.9	10627.8
62.5°	7077.0	7223.7	7614.7	8851.2	10464.0	12035.4	12551.0	12470.3	11981.6	11683.5	11488.0
65°	5735.4	5803.9	6253.5	7609.8	9403.5	11510.0	13296.3	13196.1	12746.5	12301.7	11930.3
67.5°	3714.5	3780.4	4213.0	5432.4	7384.9	10153.7	13267.0	13543.1	13056.8	12521.7	11654.1
70°	1754.6	1737.5	2140.7	3018.0	4731.1	7753.9	12370.2	12915.1	12502.1	11351.1	9679.6
72.5°	535.2	581.6	889.5	1336.7	2429.1	4836.1	9696.7	10207.5	10077.9	9068.7	6461.2
75°	237.0	256.6	349.5	547.4	984.8	1984.3	5989.6	6444.1	6387.9	5349.3	2949.6
77.5°	151.5	166.2	219.9	312.8	447.2	630.5	2759.0	3201.3	3103.5	1879.2	772.2
80°	107.5	114.9	156.4	215.0	281.0	259.0	950.6	1129.0	1082.6	510.7	207.7
82.5°	58.6	63.5	114.9	158.8	188.2	132.0	266.4	332.3	347.0	227.3	100.2
85°	22.0	26.9	70.9	112.4	97.7	61.1	78.2	95.3	124.6	124.6	46.4
87.5°	0.0	2.4	29.3	48.9	24.4	17.1	22.0	26.9	34.2	58.6	17.1
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°	1940.3	1940.3	1940.3	1940.3	1940.3	1940.3	1940.3	1940.3	1940.3	1940.3	1940.3
2.5°	1962.3	1945.2	1952.5	1964.8	1937.9	1952.5	1923.2	1945.2	1952.5	1923.2	1937.9
5°	1986.8	2003.9	1994.1	1974.5	1957.4	1962.3	1955.0	1937.9	1952.5	1957.4	1947.7
7.5°	2057.6	2038.1	2043.0	2021.0	1986.8	1984.3	1937.9	1925.7	1930.5	1935.4	1918.3
10°	2123.6	2135.8	2111.4	2094.3	2038.1	2001.4	1937.9	1869.5	1862.1	1832.8	1857.2
12.5°	2240.9	2211.6	2201.8	2145.6	2089.4	1967.2	1830.4	1725.3	1637.3	1605.5	1573.8
15°	2338.6	2333.8	2316.7	2231.1	2101.6	1879.2	1620.2	1375.8	1207.2	1102.1	1087.5
17.5°	2473.1	2451.1	2419.3	2284.9	2011.2	1649.5	1207.2	899.3	730.7	664.7	640.3
20°	2575.7	2558.6	2514.6	2272.7	1847.5	1229.2	747.8	571.8	530.3	518.1	520.5
22.5°	2724.8	2671.0	2587.9	2211.6	1549.3	818.6	537.6	510.7	503.4	493.6	496.1
25°	2854.3	2805.4	2631.9	2106.5	1104.6	542.5	498.5	483.9	471.6	459.4	457.0
27.5°	2969.1	2908.0	2678.3	1891.4	691.6	466.8	461.9	444.8	420.3	400.8	393.4
30°	3081.5	3010.7	2690.5	1488.2	466.8	422.8	410.5	383.7	351.9	325.0	320.1
32.5°	3269.7	3184.2	2673.4	1063.0	403.2	376.3	349.5	317.7	271.3	249.3	244.4
35°	3563.0	3433.4	2651.4	625.6	361.7	332.3	290.8	249.3	215.0	193.1	188.2
37.5°	3900.2	3675.4	2587.9	417.9	332.3	293.2	239.5	197.9	168.6	151.5	146.6
40°	4401.2	4029.7	2343.5	342.1	295.7	249.3	193.1	156.4	134.4	122.2	117.3
42.5°	4953.4	4435.4	1967.2	307.9	261.5	212.6	154.0	127.1	110.0	97.7	97.7
45°	5615.7	4858.1	1517.6	281.0	232.2	175.9	127.1	102.6	88.0	78.2	73.3
47.5°	6353.7	5241.8	1023.9	254.1	195.5	144.2	105.1	78.2	63.5	56.2	56.2
50°	7013.5	5581.5	652.5	222.4	171.1	119.7	85.5	63.5	51.3	41.5	39.1
52.5°	7612.2	5840.5	449.6	195.5	146.6	97.7	70.9	51.3	39.1	31.8	31.8
55°	8225.6	5972.5	332.3	168.6	127.1	83.1	58.6	46.4	34.2	26.9	24.4
57.5°	8729.0	6028.7	254.1	146.6	107.5	66.0	51.3	39.1	29.3	22.0	19.5
60°	9159.1	6001.8	197.9	122.2	85.5	56.2	44.0	31.8	24.4	17.1	14.7
62.5°	9410.8	5840.5	156.4	105.1	68.4	48.9	36.7	26.9	17.1	12.2	9.8
65°	9415.7	5498.4	122.2	78.2	51.3	41.5	31.8	22.0	12.2	4.9	2.4
67.5°	8741.2	4757.9	97.7	61.1	41.5	31.8	24.4	17.1	4.9	0.0	0.0
70°	6837.6	3599.6	80.6	48.9	34.2	26.9	17.1	9.8	2.4	0.0	0.0
72.5°	4357.2	2155.4	66.0	39.1	29.3	19.5	12.2	7.3	0.0	0.0	0.0
75°	1823.0	664.7	51.3	34.2	22.0	14.7	9.8	2.4	0.0	0.0	0.0
77.5°	469.2	210.2	41.5	29.3	22.0	12.2	7.3	2.4	0.0	0.0	0.0
80°	139.3	78.2	34.2	24.4	17.1	9.8	4.9	2.4	0.0	0.0	0.0
82.5°	63.5	46.4	29.3	22.0	14.7	9.8	4.9	0.0	0.0	0.0	0.0
85°	24.4	14.7	14.7	12.2	12.2	7.3	2.4	0.0	0.0	0.0	0.0
87.5°	9.8	4.9	4.9	4.9	2.4	2.4	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)