

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: P482995

Luminaire Tested: **IFLD-S-SA3D-830-U-T3R-HSS**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P482995
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3D-830-U-T3R-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R
distribution lens with House Side Shield
Light Source: (48) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

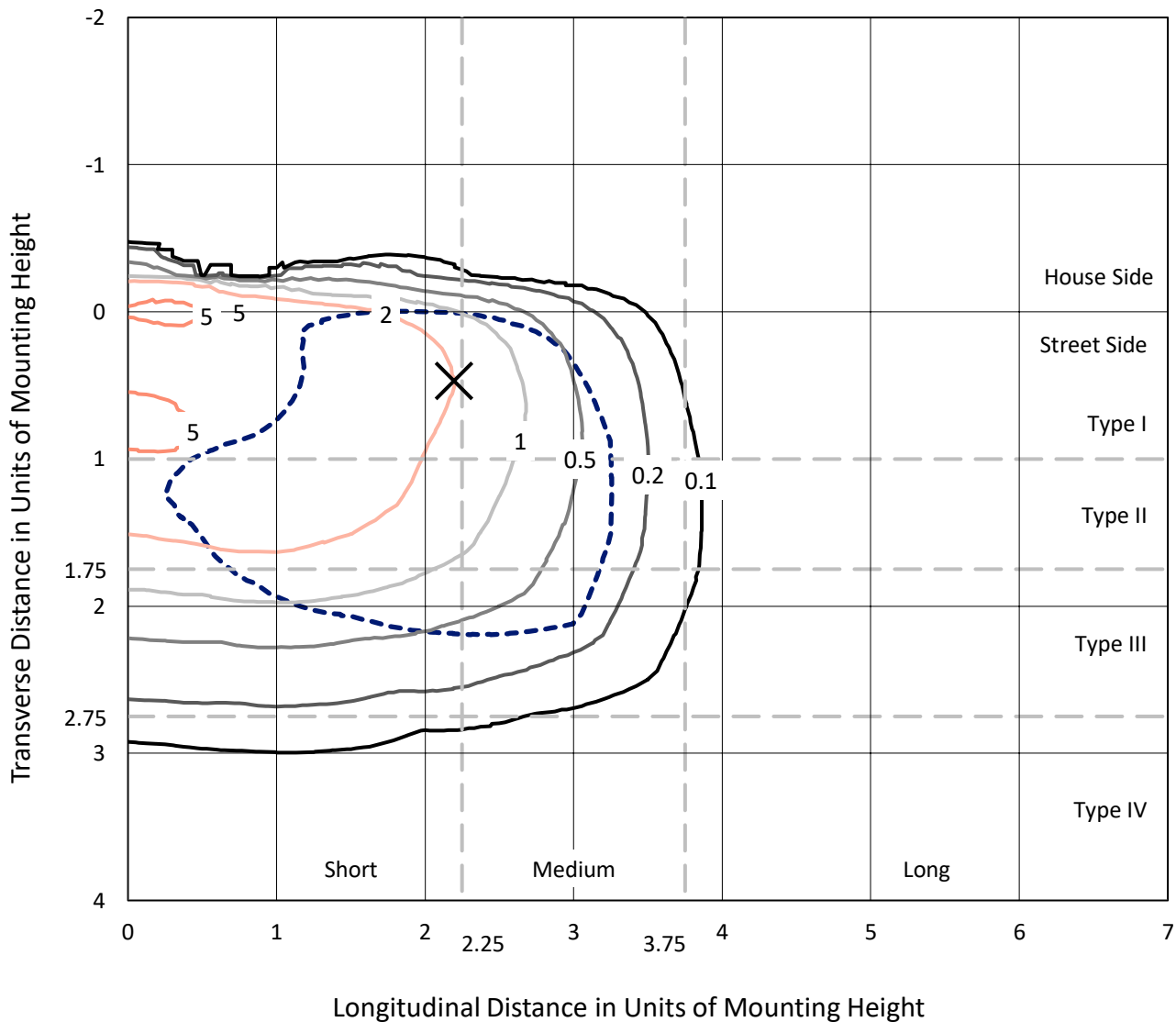
Lumens per Lamp: N/A
Luminaire Lumens: 13275.3 lumens
Efficiency: N/A
Efficacy: 72.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G3

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

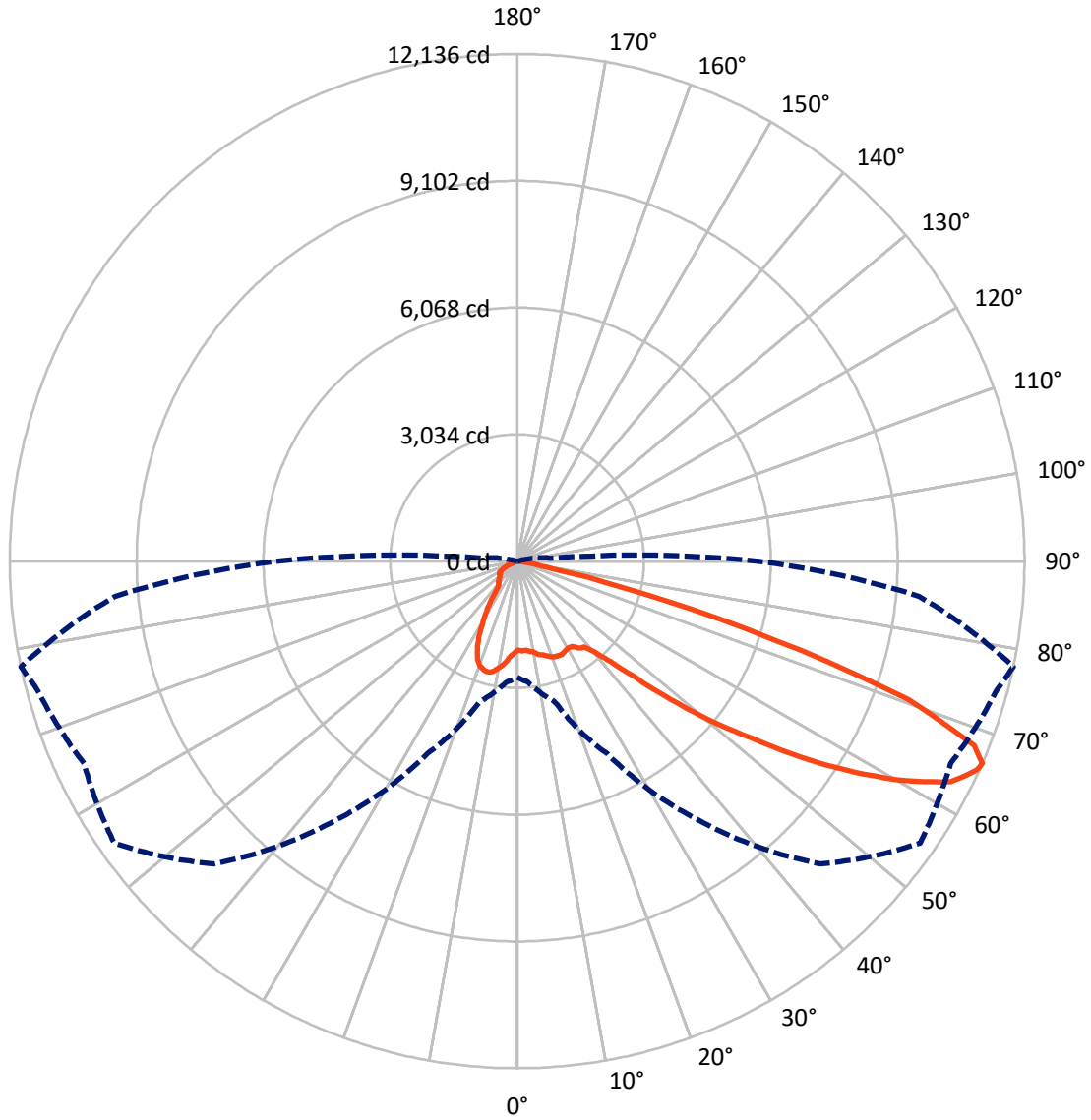
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6.1 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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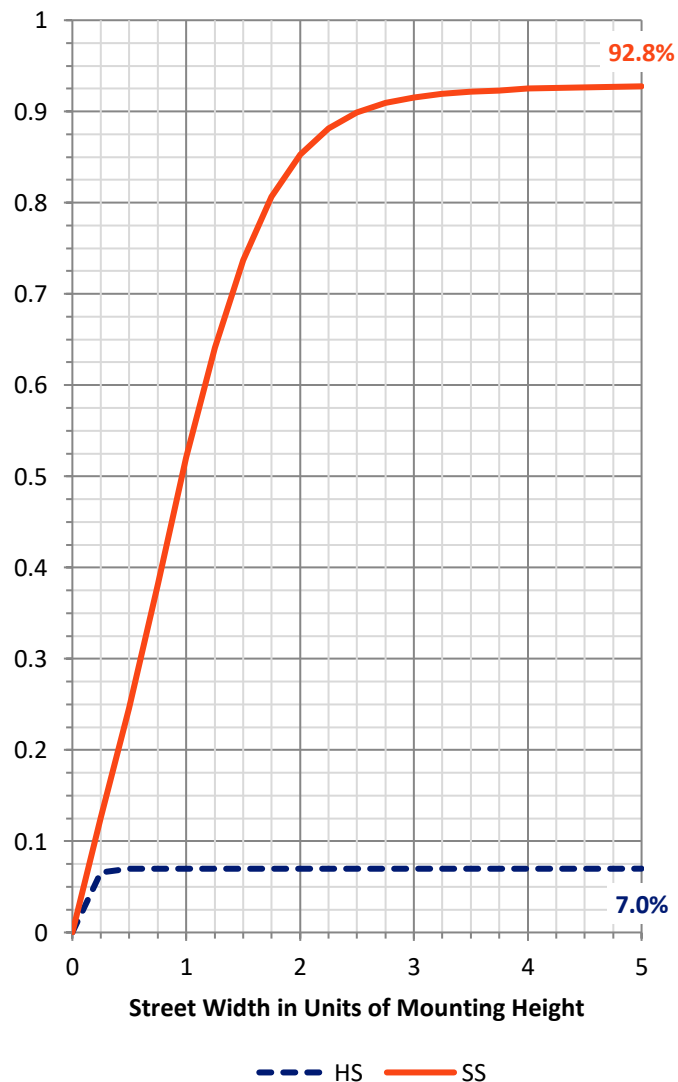
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	933.3	0.0	933.3
	% Fixture	7.0	0.0	7.0
Street Side	Lumens	12342.0	0.0	12342.0
	% Fixture	93.0	0.0	93.0
Total	Lumens	13275.3	0.0	13275.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	194.5	1.5
10°-20°	439.1	3.3
20°-30°	627.6	4.7
30°-40°	1074.3	8.1
40°-50°	1939.0	14.6
50°-60°	3316.0	25.0
60°-70°	4081.4	30.7
70°-80°	1543.0	11.6
80°-90°	60.3	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°	13275.3	100.0
0°-180°	13275.3	100.0

Coefficient of Utilization

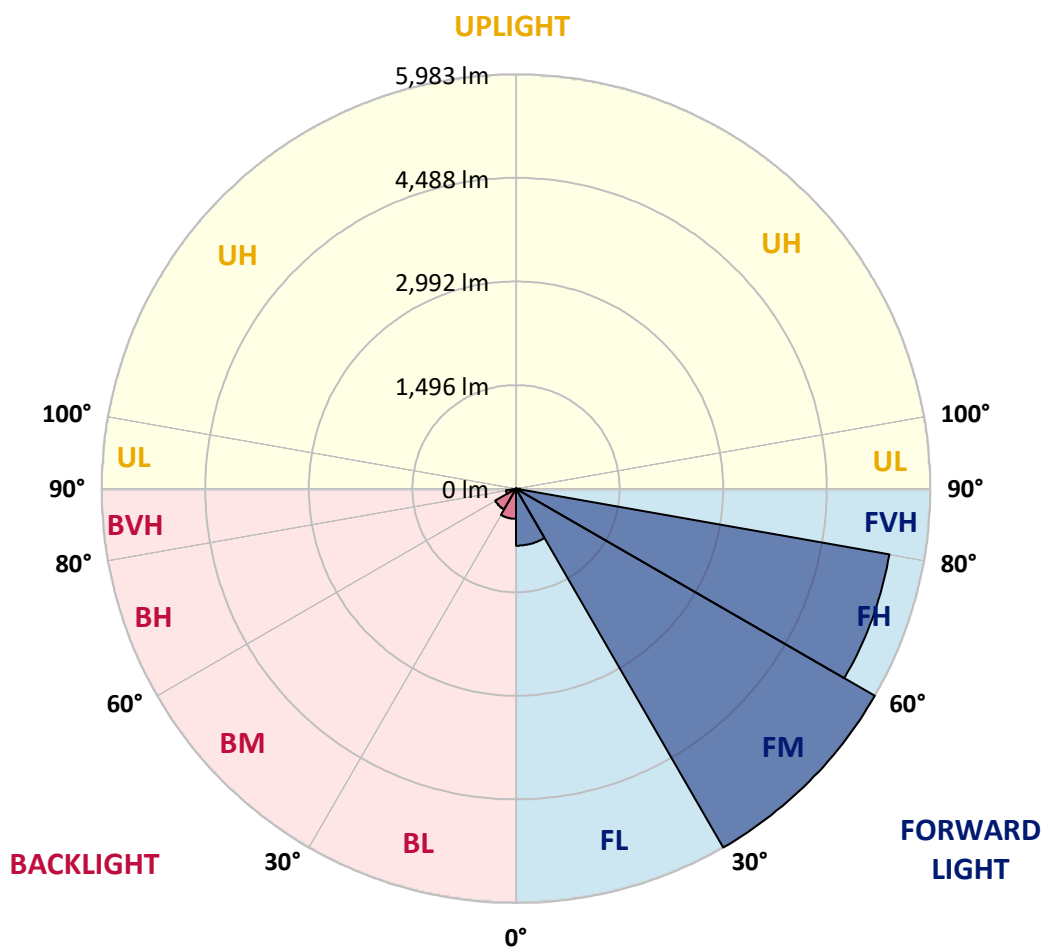


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	824.1	6.2			
FM (30°-60°)	5983.5	45.1			
FH (60°-80°)	5476.6	41.3			G3/7500
FVH (80°-90°)	57.9	0.4			G1/100
BL (0°-30°)	437.1	3.3	B1/500		
BM (30°-60°)	345.9	2.6	B1/1000		
BH (60°-80°)	147.9	1.1	B1/500		G1/500
BVH (80°-90°)	2.4	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-G3
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	2126.3	2126.3	2126.3	2126.3	2126.3	2126.3	2126.3	2126.3	2126.3	2126.3	2126.3
2.5°	1955.8	1937.7	1955.8	1981.8	1995.9	2007.9	2050.0	2086.2	2124.3	2150.3	2142.3
5°	1813.4	1847.5	1851.5	1859.5	1881.6	1953.8	1977.8	2040.0	2134.3	2142.3	2178.4
7.5°	1701.0	1691.0	1717.1	1769.2	1825.4	1867.5	1937.7	2046.0	2144.3	2178.4	2248.6
10°	1538.5	1558.6	1586.7	1638.8	1707.0	1811.3	1935.7	2056.1	2196.5	2208.5	2338.9
12.5°	1450.3	1430.2	1474.4	1528.5	1644.9	1741.1	1893.6	2038.0	2228.6	2294.8	2445.2
15°	1378.1	1388.1	1430.2	1466.3	1562.6	1685.0	1863.5	2082.1	2282.7	2328.9	2557.5
17.5°	1348.0	1342.0	1374.1	1410.2	1528.5	1666.9	1851.5	2084.2	2330.9	2391.1	2633.8
20°	1362.0	1374.1	1364.0	1398.1	1472.3	1612.8	1869.5	2122.3	2367.0	2449.2	2716.0
22.5°	1582.7	1566.6	1486.4	1422.2	1426.2	1590.7	1855.5	2146.3	2399.1	2465.3	2772.2
25°	2158.4	2072.1	1873.5	1626.8	1464.3	1530.5	1839.4	2138.3	2393.1	2475.3	2806.3
27.5°	2738.1	2663.9	2469.3	2086.2	1618.8	1506.4	1783.3	2144.3	2363.0	2439.2	2750.1
30°	3349.9	3390.0	3101.2	2645.8	2024.0	1638.8	1747.2	2112.2	2342.9	2407.1	2762.2
32.5°	3977.7	3961.7	3787.2	3293.7	2603.7	1931.7	1805.3	2144.3	2369.0	2431.2	2832.4
35°	4469.2	4413.0	4236.5	3791.2	3083.1	2373.0	2005.9	2296.8	2483.3	2557.5	2932.7
37.5°	4711.9	4736.0	4633.7	4246.5	3608.6	2782.2	2256.7	2296.8	2519.4	2605.7	3095.1
40°	4900.5	4972.7	4934.6	4810.2	4130.2	3243.6	2533.5	2439.2	2702.0	2864.5	3400.0
42.5°	5127.1	5093.0	5317.7	5203.4	4812.2	3825.3	3018.9	2778.2	3133.2	3289.7	3857.4
45°	5247.5	5377.9	5548.4	5694.8	5444.1	4551.4	3652.8	3378.0	3793.2	3991.8	4537.4
47.5°	5556.4	5608.6	5885.4	6069.9	5957.6	5381.9	4615.6	4254.6	4623.6	4936.6	5315.7
50°	5736.9	5666.7	6053.9	6334.7	6398.9	6069.9	5478.2	5197.3	5610.6	6009.7	6043.8
52.5°	5578.5	5779.1	6166.2	6669.7	6848.2	6683.7	6491.2	6368.8	6659.7	7028.7	6864.3
55°	5022.8	5159.2	6102.0	7036.8	7612.5	7536.2	7714.8	7634.5	7927.4	8318.5	7823.1
57.5°	4575.5	4746.0	5574.4	7227.3	8324.6	8549.2	8773.9	8723.7	9076.8	9528.1	8635.5
60°	4296.7	4395.0	5193.3	7179.2	8745.8	9596.3	10103.8	9750.8	10326.5	10671.5	9271.4
62.5°	3813.3	3875.4	4637.7	6541.3	8872.2	10336.5	11197.0	10717.6	11217.1	11638.3	9728.7
65°	3057.0	3225.5	3855.4	5586.5	8037.7	10472.9	11879.1	11315.4	11798.8	12075.6	9867.1
66°	2782.2	2904.6	3482.3	5081.0	7562.3	10246.2	11764.7	11439.8	11883.1	12135.8	9654.5
67.5°	2308.8	2415.1	2874.5	4360.9	6589.4	9746.8	11845.0	11355.5	11947.3	11792.8	9369.6
70°	1528.5	1596.7	1965.8	2948.7	4589.5	7973.5	10986.4	10697.6	10503.0	9923.3	7325.6
72.5°	714.1	812.4	1227.6	1787.3	2691.9	5578.5	8958.4	8571.3	7365.7	6439.0	4621.6
75°	323.0	367.1	674.0	1025.0	1207.6	2890.5	5779.1	5219.4	3666.8	3045.0	2024.0
77.5°	174.5	198.6	329.0	487.4	439.3	1013.0	2860.4	2379.0	1155.4	846.5	587.7
80°	134.4	158.5	274.8	278.8	162.5	262.8	1063.1	736.2	288.9	218.6	140.4
82.5°	70.2	100.3	216.6	180.5	82.2	106.3	329.0	204.6	90.3	72.2	60.2
85°	28.1	44.1	122.4	120.4	48.1	36.1	92.3	62.2	36.1	30.1	28.1
87.5°	2.0	2.0	66.2	46.1	30.1	10.0	14.0	14.0	18.1	16.0	20.1
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°	2126.3	2126.3	2126.3	2126.3	2126.3	2126.3	2126.3	2126.3	2126.3	2126.3	2126.3
2.5°	2178.4	2202.5	2206.5	2272.7	2286.7	2272.7	2308.8	2302.8	2318.8	2306.8	2284.7
5°	2228.6	2262.7	2328.9	2379.0	2379.0	2338.9	2306.8	2264.7	2202.5	2186.5	2174.4
7.5°	2314.8	2423.2	2483.3	2451.2	2387.0	2236.6	2028.0	1875.5	1747.2	1699.0	1676.9
10°	2467.3	2527.5	2597.7	2467.3	2200.5	1881.6	1530.5	1299.8	1119.3	1079.2	1049.1
12.5°	2565.6	2661.9	2702.0	2379.0	1855.5	1380.1	998.9	738.2	611.8	515.5	499.5
15°	2693.9	2804.3	2722.0	2140.3	1462.3	904.7	517.5	323.0	262.8	246.7	246.7
17.5°	2782.2	2902.6	2639.8	1843.4	1037.1	481.4	256.8	222.7	218.6	220.7	216.6
20°	2936.7	3008.9	2515.4	1498.4	619.8	246.7	206.6	198.6	194.6	200.6	196.6
22.5°	2994.8	3061.0	2312.8	1085.2	278.8	164.5	154.5	148.4	152.4	150.4	148.4
25°	2990.8	3024.9	1979.8	621.8	82.2	64.2	58.2	58.2	54.2	56.2	54.2
27.5°	3020.9	2936.7	1606.7	184.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30°	3037.0	2794.2	1143.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	3045.0	2720.0	736.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35°	3107.2	2571.6	314.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	3149.3	2381.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	3323.8	2320.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	3550.5	2208.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	3865.4	2042.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	4282.6	1943.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	4593.6	1789.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	4988.7	1697.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	5458.1	1701.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	5885.4	1672.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	6104.0	1430.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	6057.9	1157.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	5897.4	908.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	5787.1	804.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	5452.1	643.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	4338.8	441.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	2760.1	270.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	1271.8	124.4	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	399.2	76.2	16.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	104.3	48.1	16.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	54.2	34.1	14.0	6.0	4.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	34.1	14.0	6.0	4.0	4.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	30.1	8.0	4.0	4.0	2.0	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)