

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: P482722

Luminaire Tested: **IFLD-S-SA3D-727-U-T3R-HSS**

Issue Date: 02/26/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P482722  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA3D-727-U-T3R-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R  
distribution lens with House Side Shield  
Light Source: (48) 2700K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

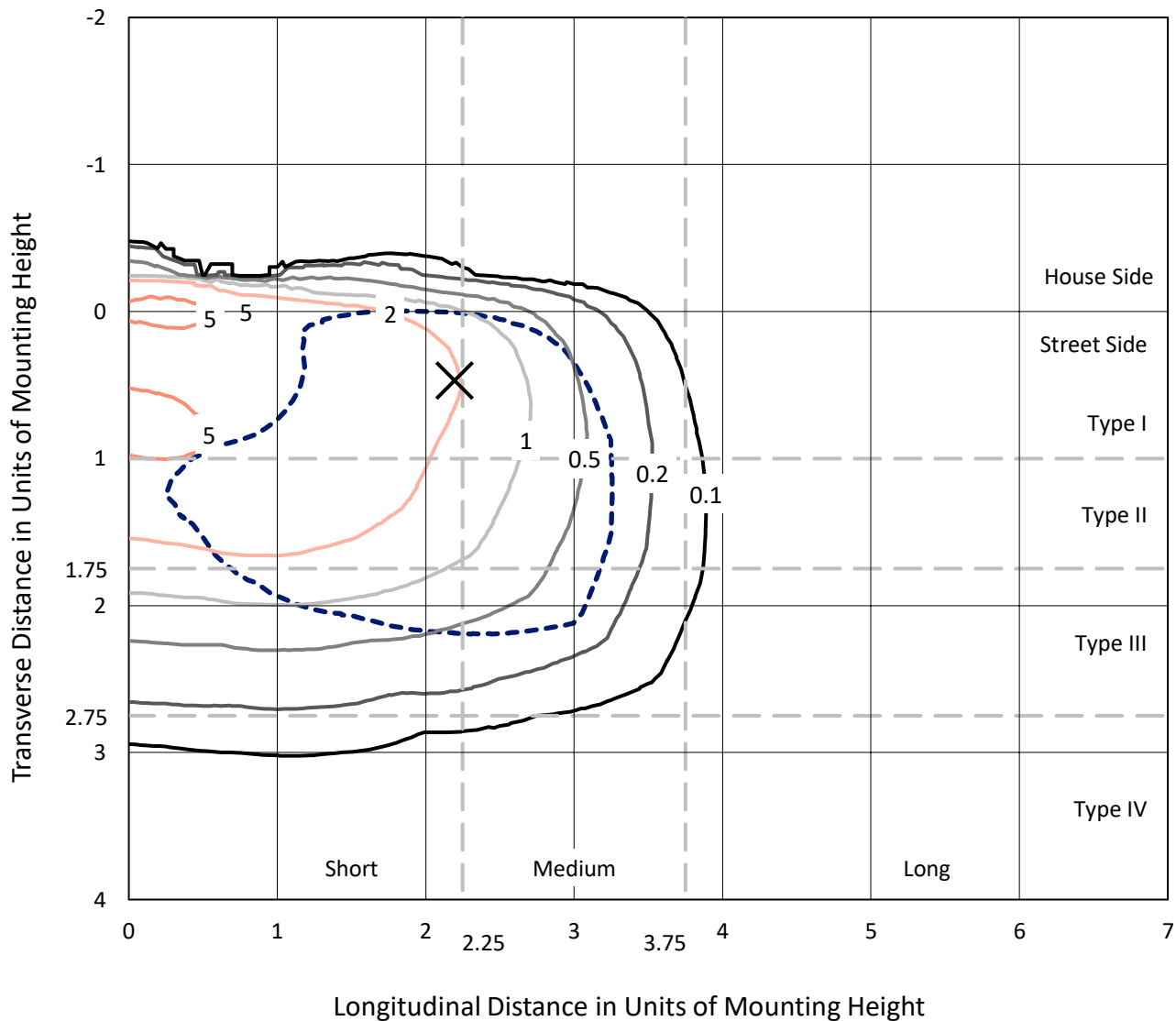
Lumens per Lamp: N/A  
Luminaire Lumens: 13972 lumens  
Efficiency: N/A  
Efficacy: 75.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G3

Input Watts (W): 184.1  
Input Voltage (V): 120  
Input Current (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

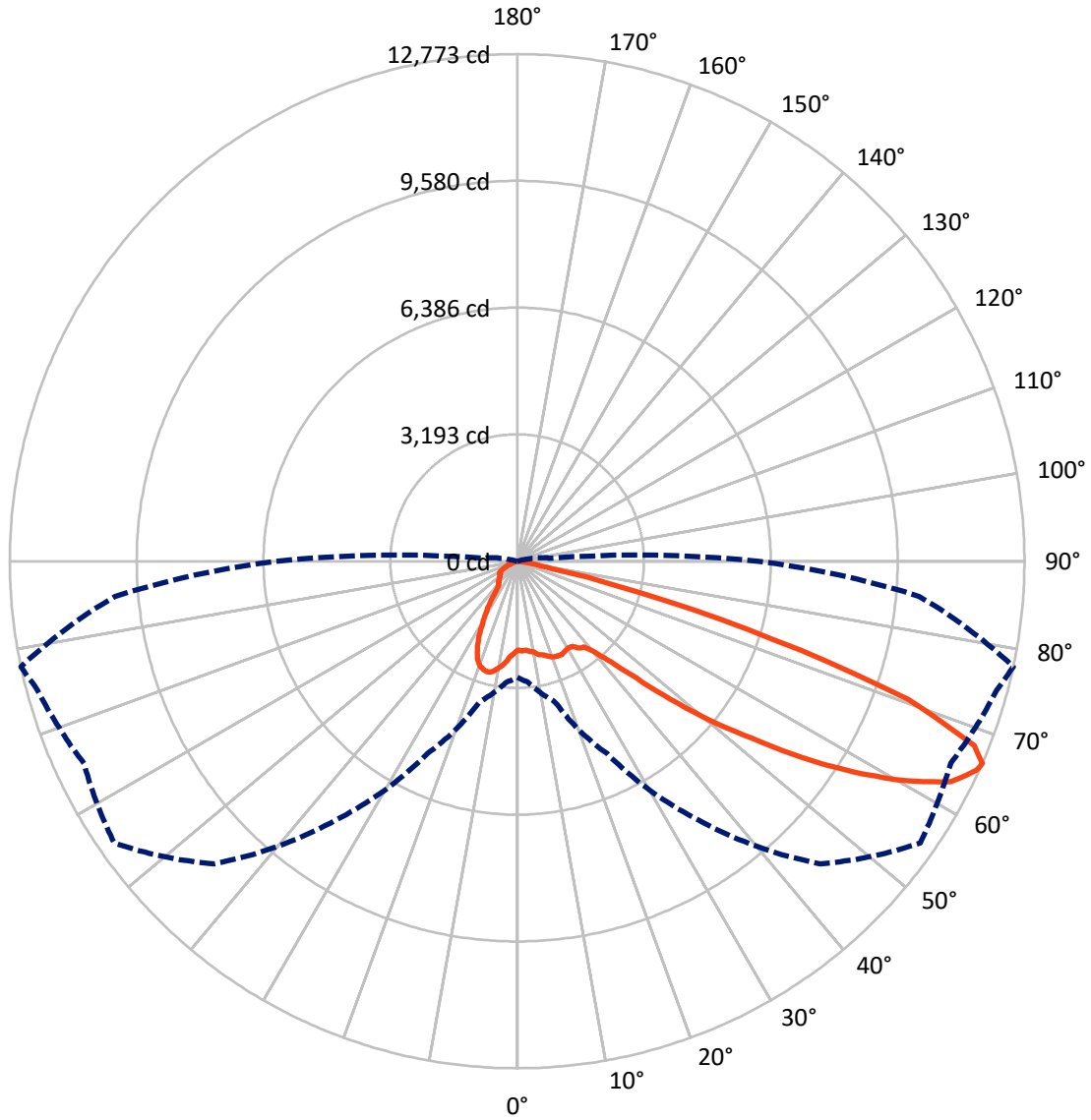
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6.4 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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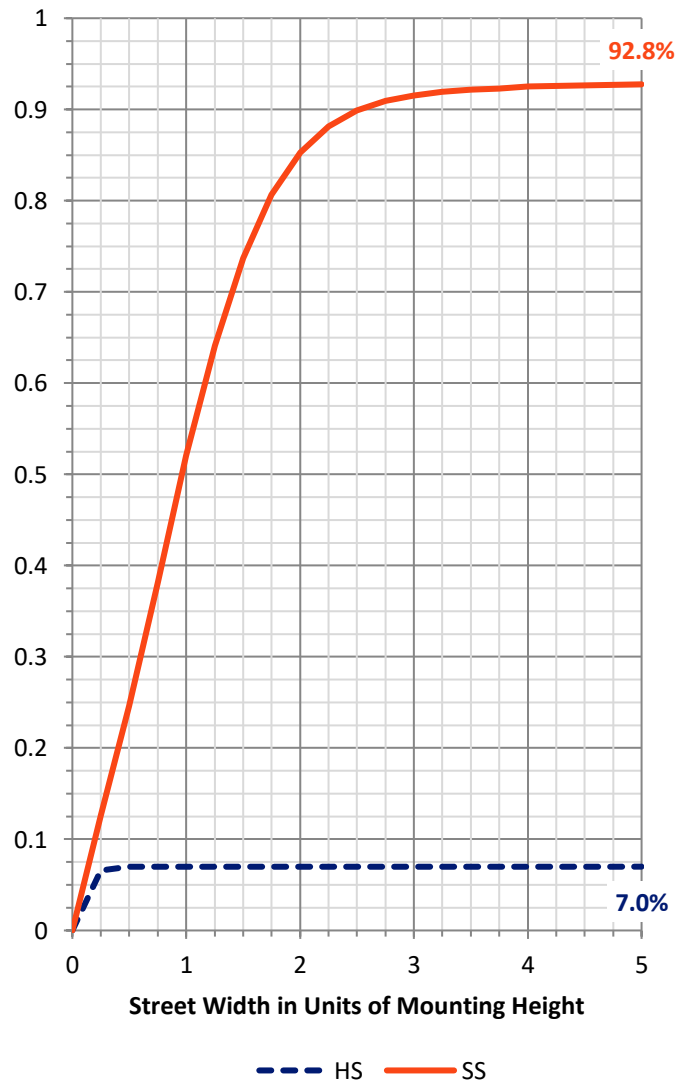
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	982.3	0.0	982.3
	% Fixture	7.0	0.0	7.0
<b>Street Side</b>	Lumens	12989.7	0.0	12989.7
	% Fixture	93.0	0.0	93.0
<b>Total</b>	Lumens	13972.0	0.0	13972.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	204.7	1.5
10°-20°	462.1	3.3
20°-30°	660.6	4.7
30°-40°	1130.7	8.1
40°-50°	2040.8	14.6
50°-60°	3490.0	25.0
60°-70°	4295.6	30.7
70°-80°	1624.0	11.6
80°-90°	63.4	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°	13972.0	100.0
0°-180°	13972.0	100.0

**Coefficient of Utilization**

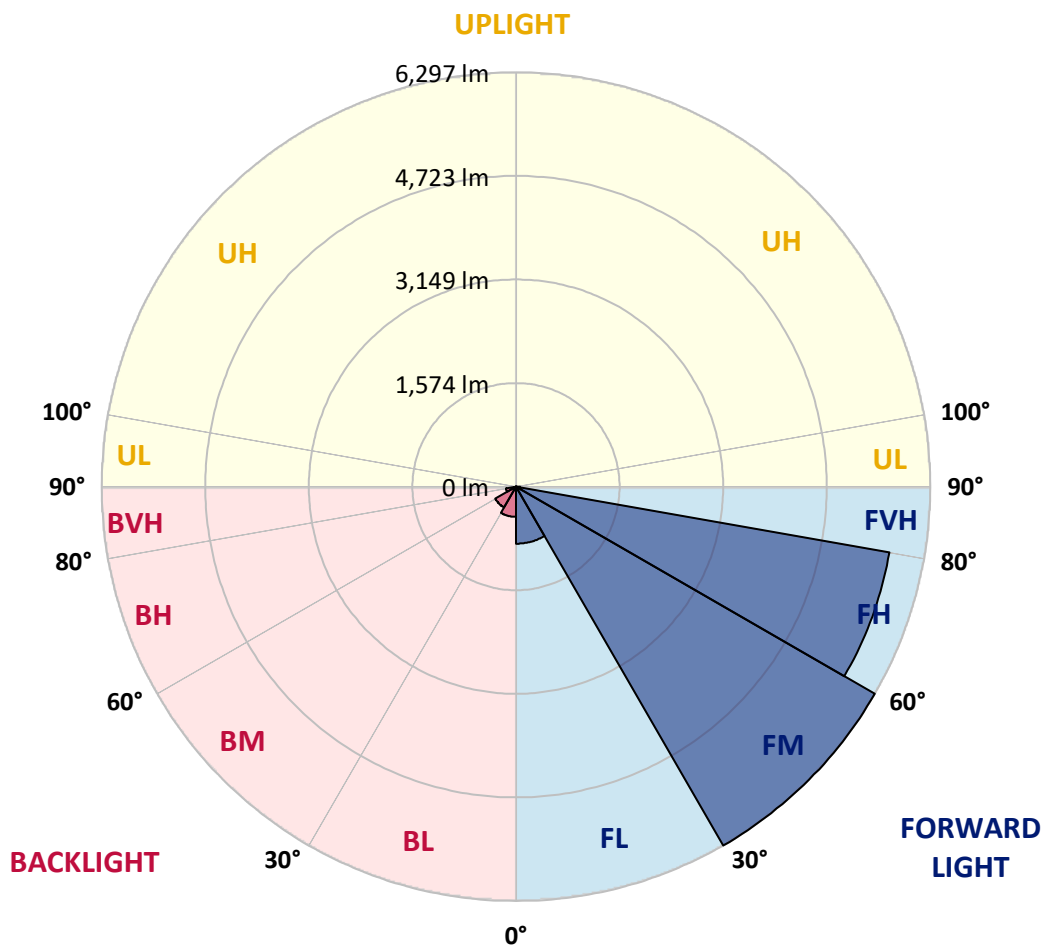


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	867.4	6.2			
FM (30°-60°)	6297.5	45.1			
FH (60°-80°)	5764.0	41.3			G3/7500
FVH (80°-90°)	60.9	0.4			G1/100
BL (0°-30°)	460.1	3.3	B1/500		
BM (30°-60°)	364.1	2.6	B1/1000		
BH (60°-80°)	155.6	1.1	B1/500		G1/500
BVH (80°-90°)	2.5	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°	2237.9	2237.9	2237.9	2237.9	2237.9	2237.9	2237.9	2237.9	2237.9	2237.9	2237.9
2.5°	2058.4	2039.4	2058.4	2085.9	2100.6	2113.3	2157.6	2195.6	2235.7	2263.2	2254.7
5°	1908.5	1944.4	1948.6	1957.1	1980.3	2056.3	2081.6	2147.1	2246.3	2254.7	2292.8
7.5°	1790.3	1779.7	1807.2	1862.1	1921.2	1965.5	2039.4	2153.4	2256.9	2292.8	2366.6
10°	1619.3	1640.4	1669.9	1724.8	1796.6	1906.4	2037.3	2164.0	2311.8	2324.4	2461.6
12.5°	1526.4	1505.3	1551.7	1608.7	1731.2	1832.5	1993.0	2145.0	2345.5	2415.2	2573.5
15°	1450.4	1460.9	1505.3	1543.3	1644.6	1773.4	1961.3	2191.4	2402.5	2451.1	2691.8
17.5°	1418.7	1412.4	1446.2	1484.2	1608.7	1754.4	1948.6	2193.5	2453.2	2516.5	2772.0
20°	1433.5	1446.2	1435.6	1471.5	1549.6	1697.4	1967.6	2233.6	2491.2	2577.8	2858.5
22.5°	1665.7	1648.8	1564.4	1496.8	1501.1	1674.2	1952.8	2259.0	2525.0	2594.7	2917.7
25°	2271.6	2180.9	1971.8	1712.2	1541.2	1610.8	1936.0	2250.5	2518.6	2605.2	2953.6
27.5°	2881.8	2803.7	2598.9	2195.6	1703.7	1585.5	1876.8	2256.9	2487.0	2567.2	2894.4
30°	3525.7	3567.9	3263.9	2784.7	2130.2	1724.8	1838.8	2223.1	2465.9	2533.4	2907.1
32.5°	4186.5	4169.6	3985.9	3466.6	2740.3	2033.1	1900.1	2256.9	2493.3	2558.8	2981.0
35°	4703.7	4644.6	4458.8	3990.1	3244.9	2497.5	2111.2	2417.3	2613.7	2691.8	3086.6
37.5°	4959.2	4984.5	4876.8	4469.4	3798.0	2928.2	2375.1	2417.3	2651.7	2742.4	3257.6
40°	5157.6	5233.6	5193.5	5062.6	4346.9	3413.8	2666.4	2567.2	2843.8	3014.8	3578.5
42.5°	5396.2	5360.3	5596.8	5476.4	5064.7	4026.0	3177.3	2924.0	3297.7	3462.3	4059.8
45°	5522.9	5660.1	5839.5	5993.7	5729.8	4790.3	3844.5	3555.2	3992.3	4201.3	4775.5
47.5°	5848.0	5902.9	6194.2	6388.5	6270.2	5664.3	4857.8	4477.8	4866.3	5195.6	5594.6
50°	6038.0	5964.1	6371.6	6667.1	6734.7	6388.5	5765.7	5470.1	5905.0	6325.1	6361.0
52.5°	5871.2	6082.3	6489.8	7019.7	7207.6	7034.5	6831.8	6703.0	7009.1	7397.6	7224.5
55°	5286.4	5430.0	6422.2	7406.0	8012.0	7931.7	8119.6	8035.2	8343.4	8755.1	8233.6
57.5°	4815.6	4995.1	5867.0	7606.6	8761.4	8997.9	9234.3	9181.6	9553.1	10028.1	9088.7
60°	4522.2	4625.6	5465.9	7555.9	9204.8	10099.9	10634.1	10262.5	10868.4	11231.5	9757.9
62.5°	4013.4	4078.8	4881.1	6884.6	9337.8	10879.0	11784.7	11280.1	11805.8	12249.1	10239.3
65°	3217.5	3394.8	4057.7	5879.7	8459.5	11022.5	12502.5	11909.2	12418.0	12709.4	10384.9
66°	2928.2	3057.0	3665.0	5347.6	7959.2	10783.9	12382.1	12040.1	12506.7	12772.7	10161.1
67.5°	2430.0	2541.9	3025.3	4589.7	6935.3	10258.3	12466.6	11951.4	12574.2	12411.7	9861.4
70°	1608.7	1680.5	2069.0	3103.4	4830.4	8392.0	11563.0	11259.0	11054.2	10444.0	7710.1
72.5°	751.6	855.0	1292.0	1881.1	2833.2	5871.2	9428.6	9021.1	7752.3	6776.9	4864.2
75°	339.9	386.3	709.4	1078.8	1270.9	3042.2	6082.3	5493.3	3859.3	3204.8	2130.2
77.5°	183.7	209.0	346.2	513.0	462.4	1066.2	3010.6	2503.9	1216.0	890.9	618.6
80°	141.4	166.8	289.2	293.5	171.0	276.6	1118.9	774.8	304.0	230.1	147.8
82.5°	73.9	105.6	228.0	190.0	86.6	111.9	346.2	215.3	95.0	76.0	63.3
85°	29.6	46.4	128.8	126.7	50.7	38.0	97.1	65.4	38.0	31.7	29.6
87.5°	2.1	2.1	69.7	48.6	31.7	10.6	14.8	14.8	19.0	16.9	21.1
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°	2237.9	2237.9	2237.9	2237.9	2237.9	2237.9	2237.9	2237.9	2237.9	2237.9	2237.9
2.5°	2292.8	2318.1	2322.3	2392.0	2406.8	2392.0	2430.0	2423.6	2440.5	2427.9	2404.6
5°	2345.5	2381.4	2451.1	2503.9	2503.9	2461.6	2427.9	2383.5	2318.1	2301.2	2288.5
7.5°	2436.3	2550.3	2613.7	2579.9	2512.3	2354.0	2134.4	1974.0	1838.8	1788.2	1765.0
10°	2596.8	2660.1	2734.0	2596.8	2316.0	1980.3	1610.8	1368.1	1178.0	1135.8	1104.2
12.5°	2700.2	2801.5	2843.8	2503.9	1952.8	1452.5	1051.4	776.9	643.9	542.6	525.7
15°	2835.3	2951.4	2864.9	2252.6	1539.1	952.1	544.7	339.9	276.6	259.7	259.7
17.5°	2928.2	3054.9	2778.3	1940.2	1091.5	506.7	270.2	234.3	230.1	232.2	228.0
20°	3090.8	3166.8	2647.4	1577.1	652.4	259.7	217.5	209.0	204.8	211.1	206.9
22.5°	3152.0	3221.7	2434.2	1142.2	293.5	173.1	162.6	156.2	160.5	158.3	156.2
25°	3147.8	3183.7	2083.7	654.5	86.6	67.6	61.2	61.2	57.0	59.1	57.0
27.5°	3179.4	3090.8	1691.1	194.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30°	3196.3	2940.9	1203.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	3204.8	2862.8	774.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35°	3270.2	2706.5	331.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	3314.6	2506.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	3498.2	2442.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	3736.8	2324.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	4068.3	2149.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	4507.4	2045.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	4834.6	1883.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	5250.5	1786.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	5744.5	1790.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	6194.2	1760.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	6424.3	1505.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	6375.8	1218.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	6206.9	956.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	6090.8	846.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	5738.2	677.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	4566.5	464.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	2905.0	285.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	1338.5	130.9	4.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	420.1	80.2	16.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	109.8	50.7	16.9	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	57.0	35.9	14.8	6.3	4.2	0.0	0.0	0.0	0.0	0.0	0.0
85°	35.9	14.8	6.3	4.2	4.2	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	31.7	8.4	4.2	4.2	2.1	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)