

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: P484511

Luminaire Tested: **IFLD-S-SA2D-827-U-SL3-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P484511  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA2D-827-U-SL3-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens with House Side Shield  
Light Source: (32) 2700K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

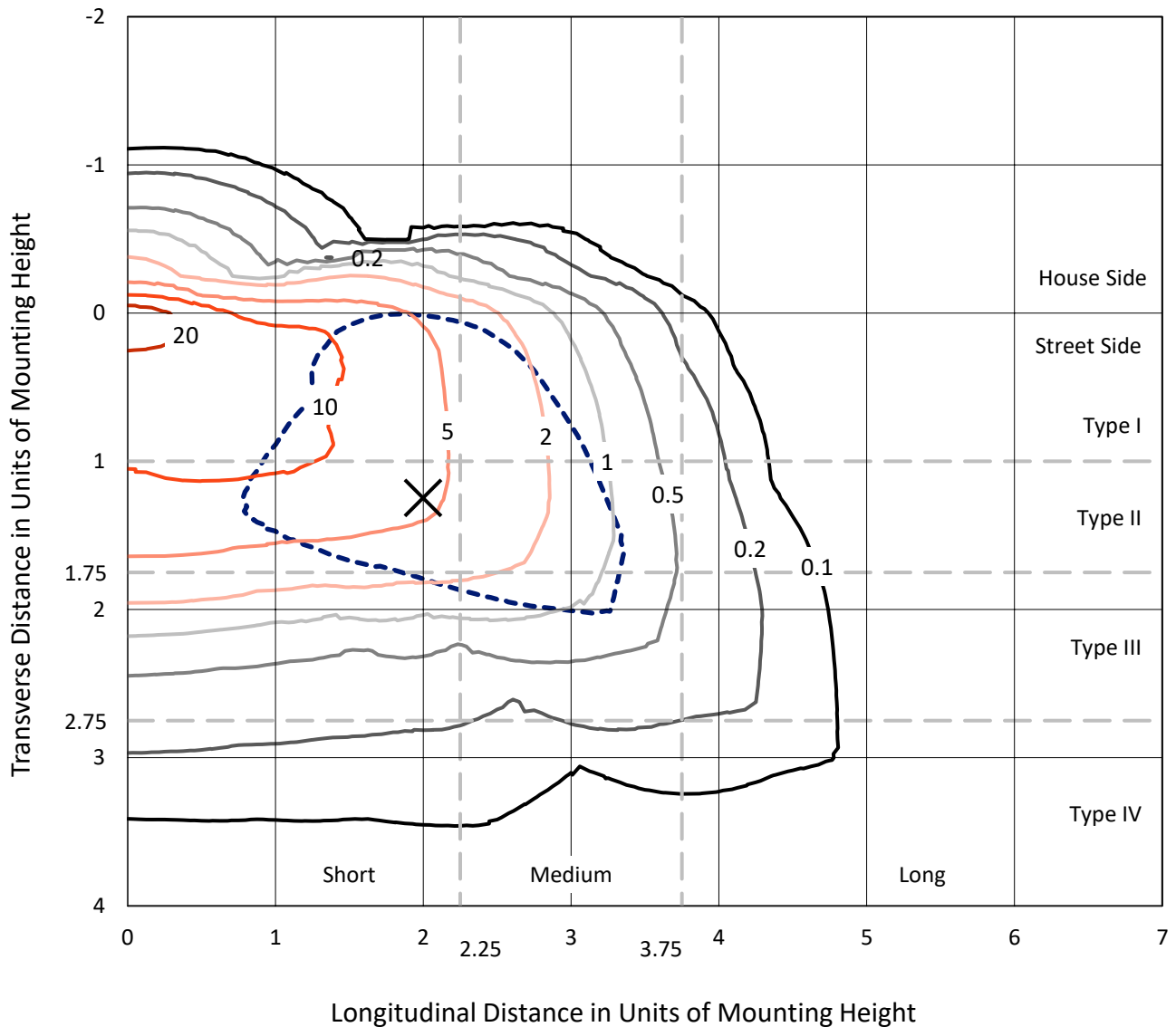
Lumens per Lamp: N/A  
Luminaire Lumens: 9614.6 lumens  
Efficiency: N/A  
Efficacy: 77.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G2

Input Watts (W): 123.9  
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

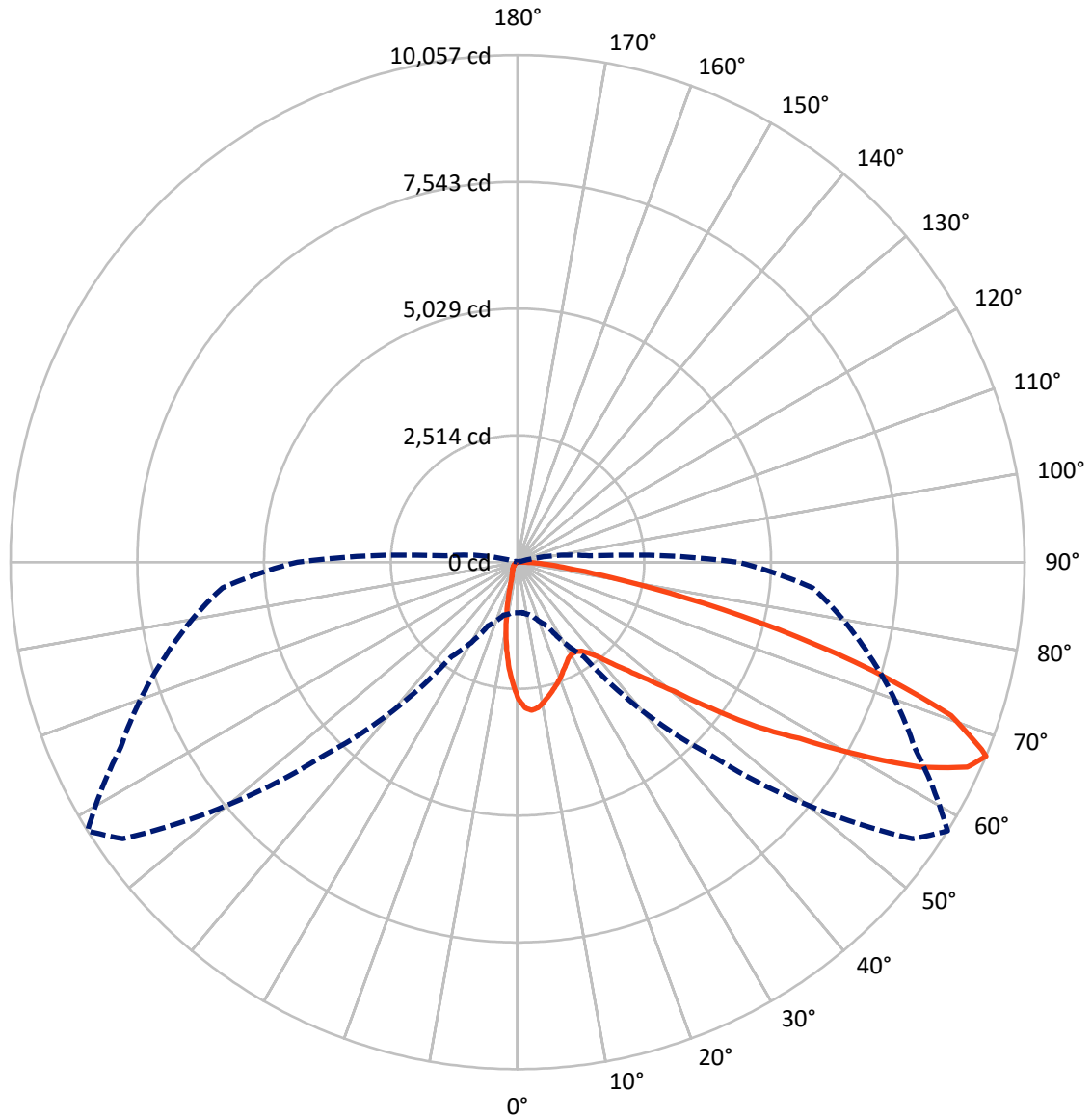
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 27.3 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral      - - - Horizontal Cone Through 67-Deg Vertical

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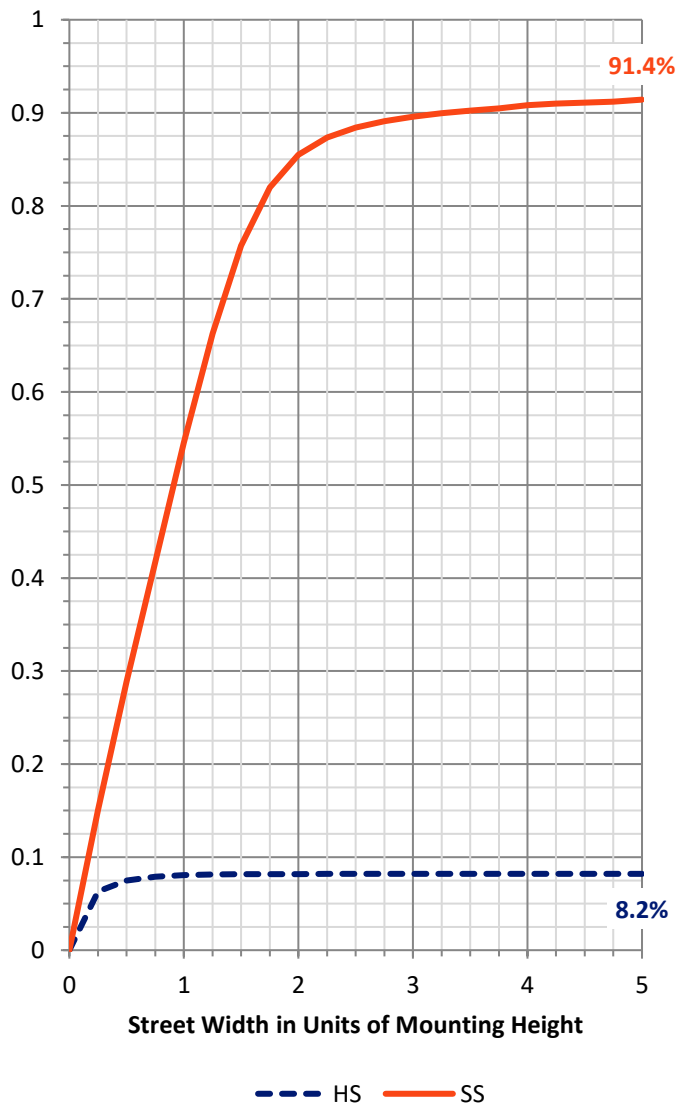
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	794.7	0.0	794.7
	% Fixture	8.3	0.0	8.3
<b>Street Side</b>	Lumens	8819.9	0.0	8819.9
	% Fixture	91.7	0.0	91.7
<b>Total</b>	Lumens	9614.6	0.0	9614.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	216.1	2.2
10°-20°	448.3	4.7
20°-30°	594.8	6.2
30°-40°	824.2	8.6
40°-50°	1344.8	14.0
50°-60°	2363.8	24.6
60°-70°	2618.1	27.2
70°-80°	1084.9	11.3
80°-90°	119.4	1.2
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°	9614.6	100.0
0°-180°	9614.6	100.0

**Coefficient of Utilization**

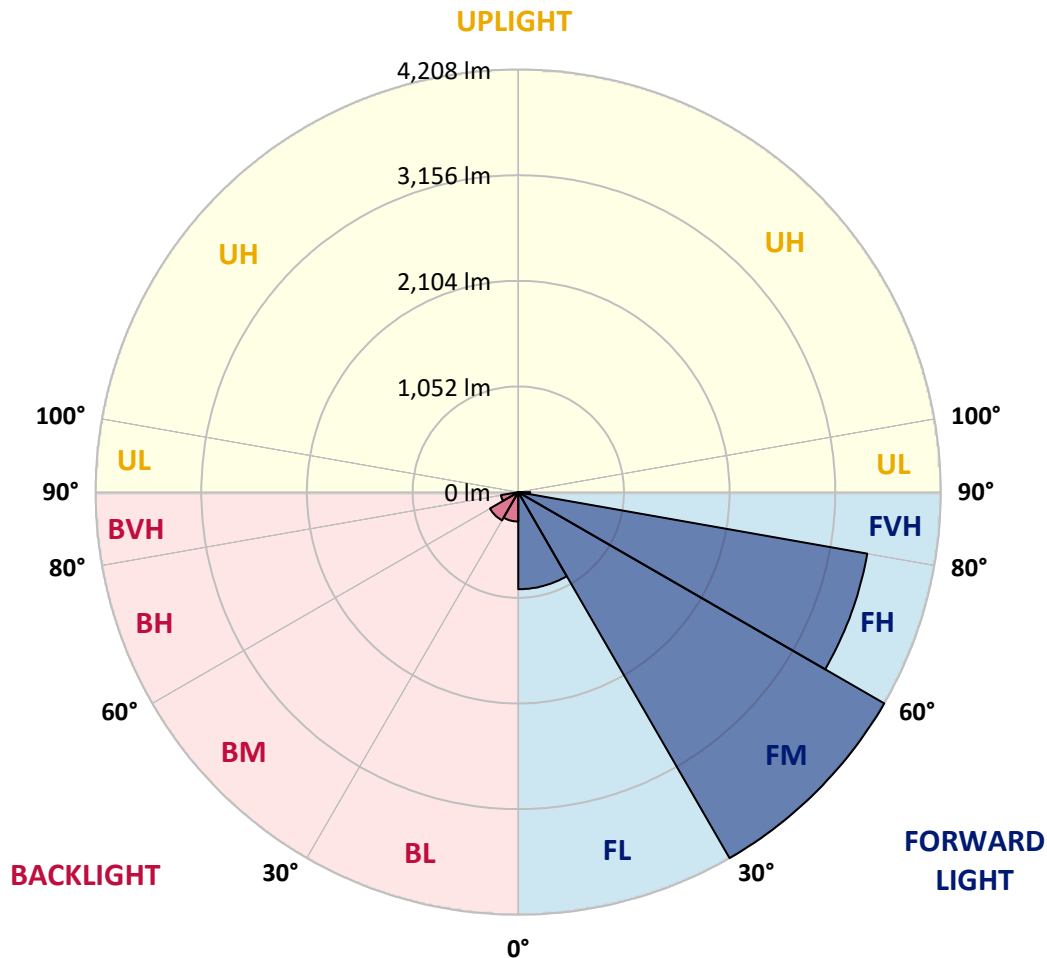


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	966.5	10.1			
FM (30°-60°)	4207.5	43.8			
FH (60°-80°)	3528.3	36.7			G2/5000
FVH (80°-90°)	117.5	1.2			G2/225
BL (0°-30°)	292.7	3.0	B1/500		
BM (30°-60°)	325.3	3.4	B1/1000		
BH (60°-80°)	174.7	1.8	B1/500		G1/500
BVH (80°-90°)	2.0	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 III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	2723.9	2723.9	2723.9	2723.9	2723.9	2723.9	2723.9	2723.9	2723.9	2723.9	2723.9
2.5°	2963.9	2974.1	2983.1	2966.5	2980.5	2960.1	2907.7	2896.3	2887.3	2809.5	2764.8
5°	2962.6	2951.1	2960.1	2967.7	2948.6	2963.9	2951.1	2952.4	2918.0	2847.8	2722.7
7.5°	2764.8	2759.7	2764.8	2801.8	2843.9	2877.1	2896.3	2915.4	2892.4	2787.8	2666.5
10°	2498.0	2523.5	2537.6	2604.0	2669.0	2730.3	2790.3	2826.1	2819.7	2777.5	2605.2
12.5°	2311.6	2304.0	2355.0	2398.4	2463.5	2587.4	2692.0	2725.2	2763.5	2704.8	2524.8
15°	2139.3	2118.9	2149.5	2224.8	2335.9	2434.2	2581.0	2630.8	2679.3	2694.6	2481.4
17.5°	1974.7	1984.9	2016.8	2084.4	2189.1	2327.0	2464.8	2536.3	2652.5	2632.0	2416.3
20°	1895.5	1917.2	1928.7	1963.2	2035.9	2173.8	2379.3	2436.7	2560.6	2630.8	2352.5
22.5°	1899.4	1899.4	1872.5	1893.0	1959.3	2066.6	2263.1	2327.0	2523.5	2564.4	2295.1
25°	1940.2	1914.7	1915.9	1891.7	1919.8	1978.5	2158.5	2236.3	2448.2	2570.8	2264.4
27.5°	1970.8	1965.7	1958.1	1951.7	1915.9	1924.9	2089.5	2153.4	2418.9	2563.1	2217.2
30°	2081.9	2058.9	2051.2	2037.2	1990.0	1946.6	2034.7	2115.1	2395.9	2581.0	2190.4
32.5°	2175.1	2178.9	2185.3	2144.4	2103.6	1996.4	2050.0	2113.8	2379.3	2621.8	2217.2
35°	2292.5	2309.1	2311.6	2298.9	2255.5	2149.5	2113.8	2168.7	2407.4	2694.6	2219.7
37.5°	2471.2	2453.3	2501.8	2506.9	2476.3	2335.9	2261.9	2283.6	2490.3	2810.7	2316.8
40°	2587.4	2609.1	2699.7	2755.8	2703.5	2575.9	2476.3	2472.5	2610.3	2993.3	2436.7
42.5°	2716.3	2764.8	2864.3	2985.6	2979.2	2860.5	2759.7	2743.1	2823.5	3257.5	2626.9
45°	2892.4	2935.8	3075.0	3257.5	3357.1	3256.2	3104.3	3071.1	3082.6	3617.4	2951.1
47.5°	3184.7	3173.2	3373.6	3553.6	3717.0	3639.1	3574.1	3477.0	3468.1	4041.2	3399.2
50°	3515.3	3512.8	3691.5	3895.7	4084.6	4236.5	4128.0	4022.1	4024.6	4616.9	3926.3
52.5°	3829.3	3879.1	4071.9	4274.8	4599.0	4762.4	4867.1	4825.0	4622.0	5131.3	4490.5
55°	3995.3	4038.7	4230.1	4579.9	5091.7	5511.7	5795.1	5759.3	5367.5	5710.8	5047.1
57.5°	3838.3	3867.6	4126.8	4585.0	5436.4	6373.3	6645.2	6600.5	6138.4	6153.7	5719.8
60°	3180.9	3226.9	3612.3	4149.7	5302.4	7037.0	7815.7	7748.0	6840.5	6714.1	6152.5
62.5°	2203.1	2233.8	2550.3	3219.2	4666.7	7268.1	8921.1	8958.1	7580.8	7150.7	6281.4
65°	1427.1	1424.5	1605.8	2058.9	3307.3	6568.6	9574.6	9804.4	8295.6	7217.0	6241.8
67°	1008.4	1004.6	1090.1	1396.4	2289.9	5412.1	9563.1	10057.1	8683.7	7236.2	5875.5
67.5°	930.5	926.7	1008.4	1284.1	2066.6	5033.0	9420.2	9926.9	8820.2	7209.4	5714.7
70°	722.5	712.3	742.9	884.6	1203.7	3254.9	8062.0	9118.9	8536.9	6540.5	4563.3
72.5°	522.1	533.6	582.1	726.3	944.6	1751.3	6144.8	7374.0	7130.2	4929.6	2900.1
75°	363.8	374.0	451.9	592.3	866.7	1062.0	4154.8	5348.3	4966.7	2721.4	1235.6
77.5°	190.2	203.0	288.5	473.6	787.6	822.0	2482.7	3391.5	2632.0	968.8	340.8
80°	88.1	94.5	144.2	335.7	658.6	722.5	1447.5	1886.6	1053.1	217.0	117.4
82.5°	38.3	42.1	66.4	192.7	467.2	631.8	896.1	989.2	381.7	70.2	72.8
85°	7.7	8.9	25.5	102.1	225.9	382.9	629.3	587.2	191.5	34.5	57.4
87.5°	0.0	0.0	6.4	29.4	61.3	113.6	266.8	266.8	58.7	17.9	21.7
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°	2723.9	2723.9	2723.9	2723.9	2723.9	2723.9	2723.9	2723.9	2723.9	2723.9	2723.9
2.5°	2725.2	2679.3	2578.4	2485.2	2418.9	2343.6	2244.0	2199.3	2182.7	2159.7	2125.3
5°	2653.7	2597.6	2425.2	2251.7	2061.5	1917.2	1764.0	1674.7	1607.0	1564.9	1550.9
7.5°	2552.9	2438.0	2205.7	1927.4	1681.1	1466.6	1234.3	1077.3	976.5	935.6	897.3
10°	2472.5	2323.1	1969.6	1623.6	1295.6	981.6	719.9	582.1	477.4	437.8	432.7
12.5°	2367.8	2189.1	1748.7	1313.5	901.2	584.6	398.3	345.9	316.6	311.5	307.6
15°	2281.0	2067.8	1539.4	1017.3	583.3	365.1	310.2	297.4	289.8	287.2	288.5
17.5°	2222.3	1937.6	1325.0	740.3	384.2	298.7	285.9	278.3	274.4	273.2	269.3
20°	2106.1	1827.9	1113.1	518.2	300.0	275.7	265.5	259.1	255.3	254.0	252.7
22.5°	2039.8	1688.7	901.2	361.2	266.8	250.2	242.5	237.4	231.0	227.2	225.9
25°	1973.4	1586.6	712.3	280.8	242.5	231.0	219.5	213.2	203.0	197.8	196.6
27.5°	1895.5	1485.8	548.9	243.8	218.3	206.8	195.3	185.1	172.3	167.2	164.7
30°	1850.8	1387.5	413.6	218.3	200.4	185.1	171.0	158.3	144.2	135.3	132.8
32.5°	1827.9	1298.1	310.2	199.1	181.3	164.7	146.8	131.5	118.7	111.1	109.8
35°	1799.8	1211.3	243.8	181.3	163.4	145.5	127.6	112.3	99.6	93.2	90.6
37.5°	1829.1	1160.3	203.0	167.2	149.3	128.9	109.8	94.5	84.2	77.9	76.6
40°	1909.6	1118.2	176.1	154.5	135.3	113.6	95.7	80.4	71.5	66.4	63.8
42.5°	2033.4	1118.2	159.6	141.7	122.5	99.6	81.7	70.2	61.3	56.2	54.9
45°	2258.0	1152.6	145.5	128.9	107.2	85.5	70.2	58.7	49.8	44.7	43.4
47.5°	2573.3	1231.8	134.0	117.4	95.7	75.3	61.3	49.8	40.8	35.7	34.5
50°	2997.1	1411.7	122.5	103.4	85.5	65.1	51.1	39.6	31.9	26.8	25.5
52.5°	3525.5	1667.0	111.1	95.7	72.8	54.9	40.8	31.9	24.3	20.4	19.1
55°	4084.6	1979.8	97.0	85.5	62.5	46.0	33.2	24.3	17.9	15.3	14.0
57.5°	4647.5	2221.0	85.5	74.0	51.1	37.0	26.8	19.1	12.8	10.2	8.9
60°	4946.2	2244.0	74.0	61.3	40.8	29.4	20.4	14.0	8.9	6.4	5.1
62.5°	4992.2	2039.8	63.8	49.8	33.2	23.0	14.0	10.2	5.1	2.6	2.6
65°	4756.0	1700.2	54.9	39.6	25.5	16.6	10.2	6.4	2.6	1.3	0.0
67°	4373.1	1424.5	47.2	33.2	20.4	12.8	7.7	3.8	1.3	0.0	0.0
67.5°	4225.0	1347.9	44.7	30.6	19.1	11.5	6.4	3.8	1.3	0.0	0.0
70°	3279.2	962.4	33.2	21.7	14.0	8.9	5.1	2.6	0.0	0.0	0.0
72.5°	2009.1	562.9	25.5	15.3	10.2	6.4	3.8	1.3	0.0	0.0	0.0
75°	842.5	194.0	21.7	11.5	7.7	3.8	2.6	1.3	0.0	0.0	0.0
77.5°	219.5	72.8	15.3	7.7	5.1	3.8	2.6	1.3	0.0	0.0	0.0
80°	89.4	33.2	10.2	5.1	5.1	3.8	2.6	1.3	0.0	0.0	0.0
82.5°	58.7	15.3	6.4	5.1	3.8	2.6	1.3	0.0	0.0	0.0	0.0
85°	44.7	8.9	3.8	3.8	2.6	1.3	0.0	0.0	0.0	0.0	0.0
87.5°	19.1	5.1	3.8	2.6	2.6	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)