

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: P483925

Luminaire Tested: **IFLD-S-SA2C-730-U-SL2-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P483925  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA2C-730-U-SL2-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens with House Side Shield  
Light Source: (32) 3000K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

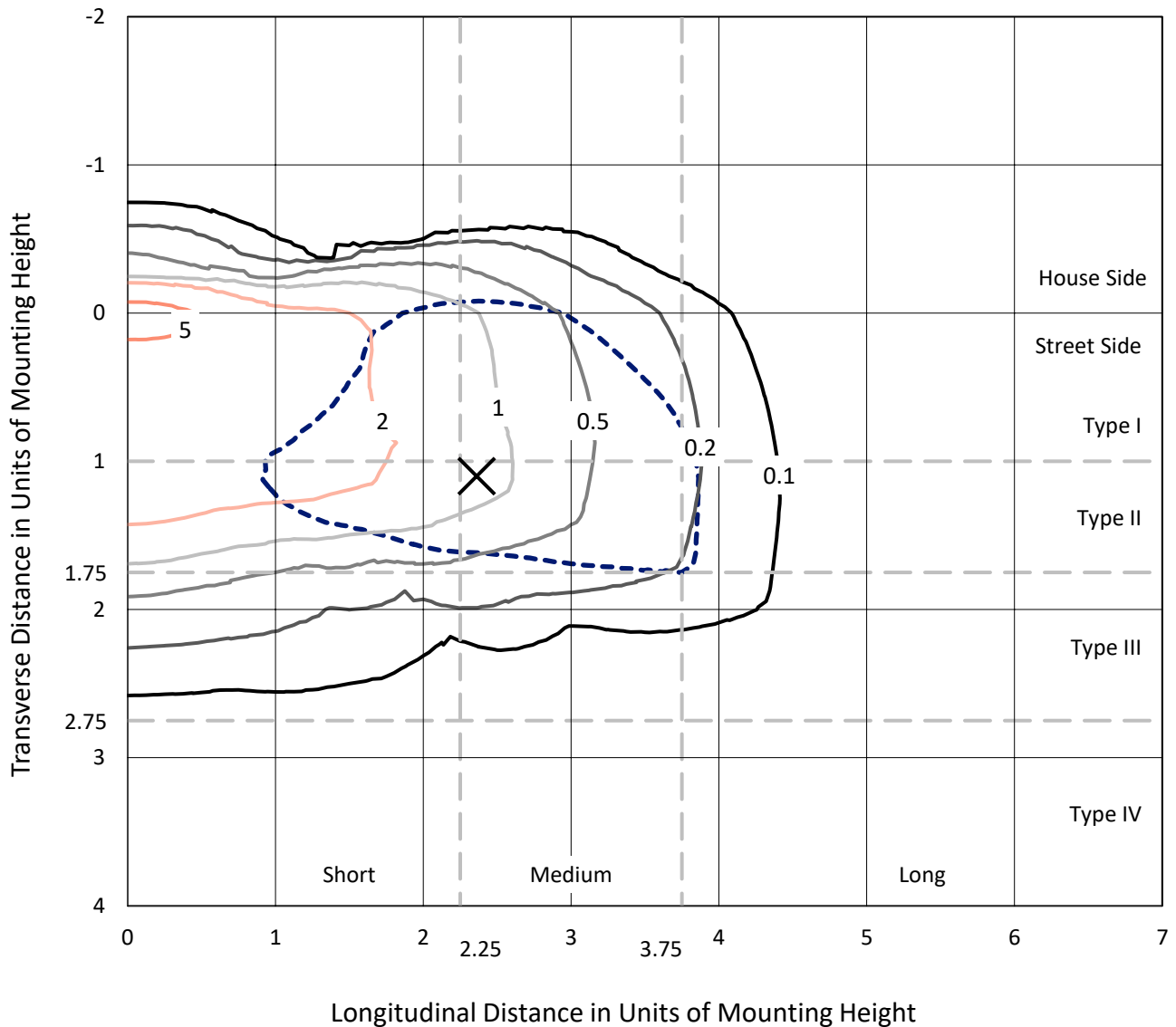
Lumens per Lamp: N/A  
Luminaire Lumens: 10652.5 lumens  
Efficiency: N/A  
Efficacy: 98.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G2

Input Watts (W): 108.2  
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

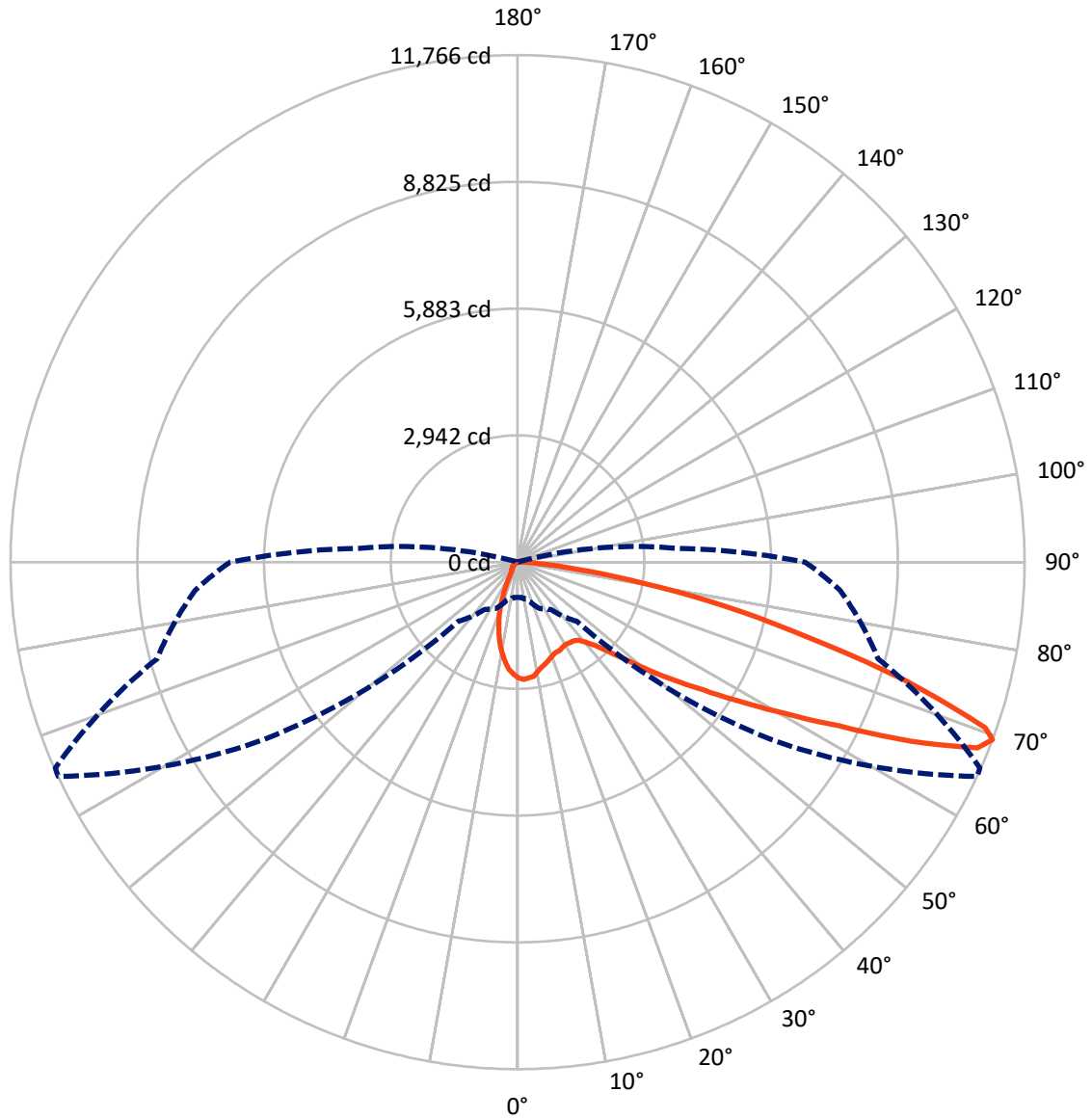
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6.7 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral      - - - Horizontal Cone Through 69-Deg Vertical

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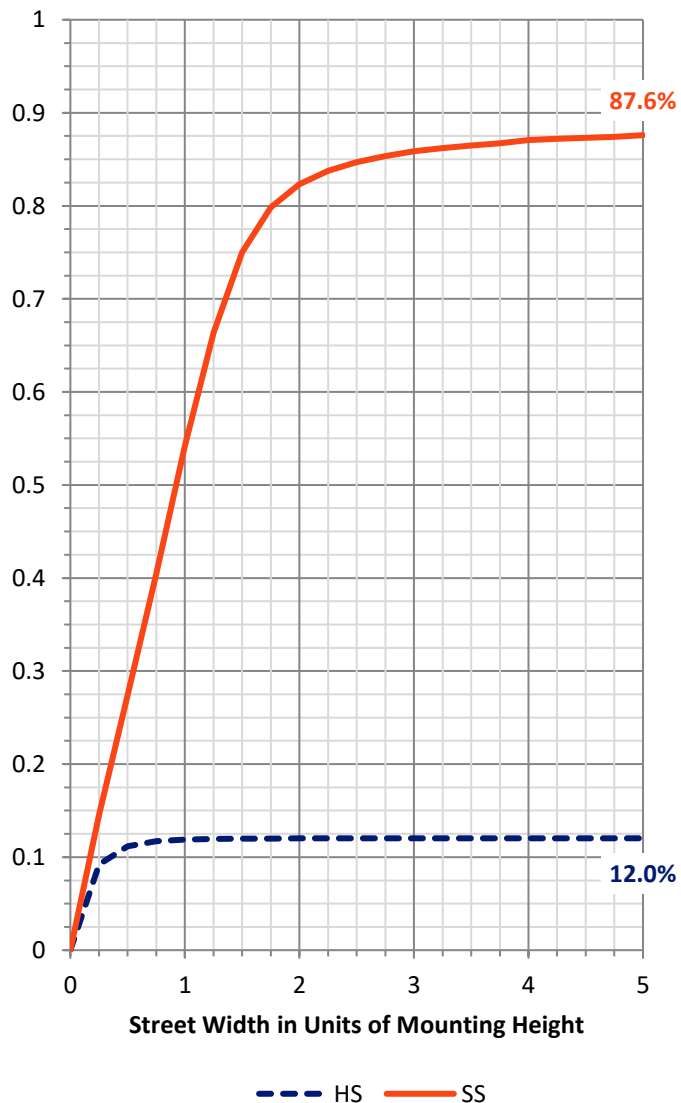
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1292.2	0.0	1292.2
	% Fixture	12.1	0.0	12.1
<b>Street Side</b>	Lumens	9360.3	0.0	9360.3
	% Fixture	87.9	0.0	87.9
<b>Total</b>	Lumens	10652.5	0.0	10652.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	219.8	2.1
10°-20°	480.9	4.5
20°-30°	669.5	6.3
30°-40°	948.7	8.9
40°-50°	1495.2	14.0
50°-60°	2426.2	22.8
60°-70°	2709.5	25.4
70°-80°	1525.8	14.3
80°-90°	177.0	1.7
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°	10652.5	100.0
0°-180°	10652.5	100.0

**Coefficient of Utilization**

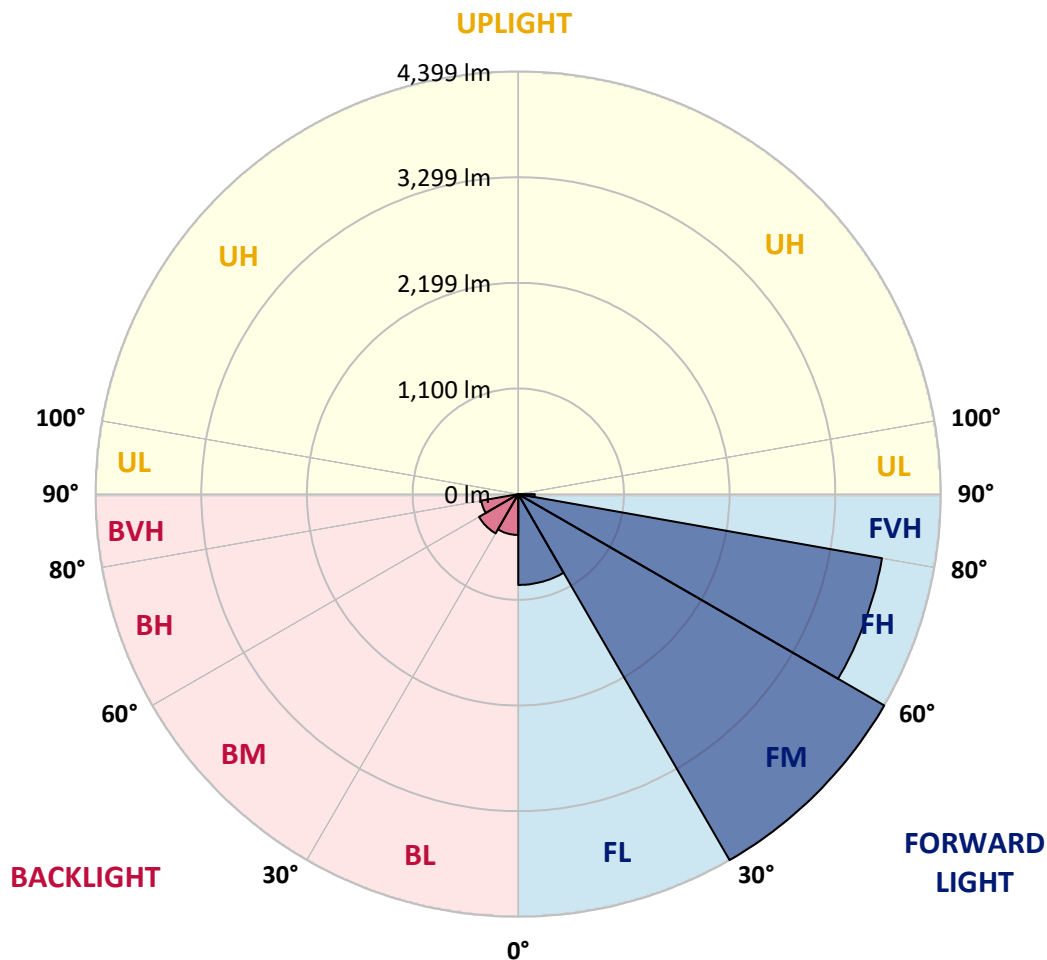


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	945.3	8.9			
FM (30°-60°)	4398.5	41.3			
FH (60°-80°)	3844.3	36.1			G2/5000
FVH (80°-90°)	172.2	1.6			G2/225
BL (0°-30°)	424.8	4.0	B1/500		
BM (30°-60°)	471.5	4.4	B1/1000		
BH (60°-80°)	391.0	3.7	B1/500		G1/500
BVH (80°-90°)	4.9	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 II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	2685.8	2685.8	2685.8	2685.8	2685.8	2685.8	2685.8	2685.8	2685.8	2685.8	2685.8
2.5°	2586.6	2606.7	2612.5	2632.6	2642.6	2685.8	2710.2	2724.6	2717.4	2733.2	2734.6
5°	2402.7	2391.2	2421.3	2442.9	2488.9	2563.6	2639.8	2698.7	2726.0	2751.9	2747.5
7.5°	2205.8	2200.0	2230.2	2279.1	2320.8	2411.3	2533.4	2678.6	2672.8	2736.0	2754.7
10°	2070.7	2076.5	2086.5	2135.4	2197.2	2289.1	2441.5	2576.5	2606.7	2740.4	2777.7
12.5°	1947.1	1957.2	1975.9	2026.2	2098.0	2192.9	2340.9	2498.9	2544.9	2715.9	2790.7
15°	1906.9	1883.9	1921.3	1958.6	2033.4	2118.1	2243.2	2440.0	2460.1	2687.2	2812.2
17.5°	1873.8	1859.5	1876.7	1906.9	1985.9	2054.9	2172.7	2376.8	2414.2	2675.7	2809.3
20°	1883.9	1871.0	1878.2	1901.2	1937.1	2001.7	2111.0	2316.4	2356.7	2622.5	2805.0
22.5°	1912.6	1922.7	1909.8	1915.5	1927.0	1960.1	2077.9	2273.3	2307.8	2612.5	2829.5
25°	2042.0	2024.7	2007.5	2000.3	1932.8	1947.1	2067.8	2270.5	2294.9	2576.5	2809.3
27.5°	2177.1	2162.7	2155.5	2113.8	2021.9	1978.7	2069.3	2230.2	2263.3	2562.2	2784.9
30°	2340.9	2359.6	2330.8	2280.5	2152.6	2046.3	2085.1	2210.1	2256.1	2507.6	2769.1
32.5°	2513.3	2523.4	2537.7	2500.4	2335.1	2148.3	2132.5	2228.8	2231.7	2507.6	2733.2
35°	2708.7	2694.4	2731.7	2734.6	2589.5	2329.4	2223.0	2241.7	2271.9	2496.1	2720.2
37.5°	2876.9	2901.3	2944.4	3013.4	2863.9	2585.2	2363.9	2302.1	2315.0	2549.2	2730.3
40°	3060.8	3085.2	3183.0	3251.9	3167.1	2872.6	2578.0	2442.9	2453.0	2628.3	2782.0
42.5°	3263.4	3310.8	3427.2	3548.0	3525.0	3237.6	2853.9	2649.8	2645.5	2825.1	2888.4
45°	3537.9	3601.1	3727.6	3867.0	3887.1	3655.7	3221.8	2958.8	2973.2	3082.4	3108.2
47.5°	3920.1	3917.3	4040.8	4196.0	4312.4	4089.7	3661.5	3374.1	3372.6	3489.0	3434.4
50°	4289.4	4290.9	4323.9	4503.6	4805.3	4691.8	4206.1	3925.9	3910.1	3967.6	3879.9
52.5°	4460.4	4440.3	4415.9	4632.9	5184.7	5450.5	4895.9	4551.0	4538.0	4503.6	4480.6
55°	4280.8	4288.0	4286.6	4512.2	5384.4	6250.9	5781.0	5239.3	5217.7	5110.0	5141.6
57.5°	3704.6	3681.6	3731.9	4084.0	5156.0	6797.0	7047.0	6107.2	6051.2	5693.4	5621.5
60°	2757.6	2764.8	2806.5	3221.8	4588.3	6912.0	8258.4	7126.1	6884.7	6104.4	6005.2
62.5°	1925.6	1911.2	1927.0	2159.8	3280.7	6452.1	9077.5	8364.8	8132.0	6571.4	6513.9
65°	1378.1	1359.4	1422.6	1564.9	1970.1	4933.2	9193.9	10014.5	9806.1	7317.2	7179.3
67.5°	991.5	988.7	1061.9	1320.6	1399.6	2840.9	8331.7	11508.9	11382.5	8202.4	7584.5
69°	820.5	822.0	892.4	1182.7	1336.4	1939.9	7169.2	11766.2	11743.2	8659.4	7508.3
70°	715.6	721.4	803.3	1100.7	1310.5	1595.1	6180.5	11513.2	11490.2	8748.5	7256.8
72.5°	441.2	445.5	553.2	882.3	1245.9	1301.9	3696.0	9419.5	9498.6	8340.3	6252.4
75°	211.2	212.7	290.3	638.0	1201.3	1234.4	1980.2	6950.8	7117.5	6733.8	4885.8
77.5°	112.1	112.1	139.4	339.1	972.8	1161.1	1175.5	4903.0	5041.0	4257.8	2777.7
80°	56.0	57.5	84.8	176.8	603.5	1138.1	918.2	2924.3	2999.0	1737.3	865.1
82.5°	21.6	23.0	40.2	106.3	313.3	961.4	806.2	1438.4	1419.8	406.7	211.2
85°	2.9	2.9	14.4	63.2	133.6	423.9	665.3	600.7	580.5	89.1	102.0
87.5°	0.0	0.0	2.9	18.7	40.2	123.6	257.2	165.3	183.9	24.4	50.3
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°	2685.8	2685.8	2685.8	2685.8	2685.8	2685.8	2685.8	2685.8	2685.8	2685.8	2685.8
2.5°	2727.4	2697.2	2651.3	2606.7	2559.3	2501.8	2438.6	2415.6	2375.4	2372.5	2395.5
5°	2724.6	2675.7	2595.2	2500.4	2365.3	2263.3	2152.6	2072.2	2010.4	1970.1	1980.2
7.5°	2738.9	2680.0	2540.6	2336.6	2162.7	1960.1	1789.1	1671.2	1563.5	1510.3	1504.5
10°	2715.9	2636.9	2432.8	2146.9	1891.1	1608.0	1358.0	1199.9	1039.0	980.0	982.9
12.5°	2728.9	2618.2	2316.4	1951.4	1599.4	1231.5	932.6	717.1	566.2	517.3	511.6
15°	2737.5	2578.0	2204.4	1717.2	1276.1	839.2	540.3	406.7	359.2	350.6	349.2
17.5°	2704.4	2529.1	2046.3	1485.9	945.5	510.1	359.2	331.9	323.3	317.6	314.7
20°	2703.0	2500.4	1909.8	1248.8	630.8	347.8	310.4	300.3	287.4	283.1	283.1
22.5°	2678.6	2440.0	1746.0	988.7	402.4	298.9	278.8	263.0	248.6	242.9	241.4
25°	2671.4	2369.6	1592.2	742.9	306.1	267.3	247.2	224.2	206.9	198.3	194.0
27.5°	2651.3	2309.3	1437.0	523.1	267.3	238.5	212.7	188.2	168.1	155.2	153.8
30°	2579.4	2246.0	1264.6	362.1	242.9	211.2	182.5	153.8	133.6	125.0	122.1
32.5°	2549.2	2187.1	1076.3	278.8	221.3	186.8	153.8	127.9	112.1	103.5	102.0
35°	2513.3	2100.9	893.8	242.9	201.2	162.4	129.3	107.8	94.8	87.7	87.7
37.5°	2517.6	2031.9	722.8	219.9	179.6	139.4	110.6	92.0	80.5	73.3	73.3
40°	2504.7	1977.3	561.9	199.7	159.5	119.3	93.4	77.6	67.5	60.4	58.9
42.5°	2563.6	1962.9	423.9	182.5	139.4	102.0	80.5	66.1	56.0	47.4	47.4
45°	2662.8	1985.9	330.5	166.7	119.3	87.7	69.0	54.6	44.5	38.8	37.4
47.5°	2927.2	2076.5	258.7	153.8	102.0	76.2	57.5	44.5	35.9	30.2	28.7
50°	3310.8	2279.1	219.9	135.1	86.2	64.7	47.4	34.5	28.7	23.0	21.6
52.5°	3856.9	2619.7	199.7	119.3	71.8	53.2	37.4	27.3	21.6	17.2	15.8
55°	4451.8	3045.0	181.1	100.6	60.4	43.1	30.2	21.6	15.8	11.5	10.1
57.5°	4916.0	3412.9	165.3	83.3	48.9	34.5	23.0	15.8	11.5	7.2	5.7
60°	5423.2	3671.5	145.1	66.1	40.2	25.9	17.2	11.5	8.6	4.3	4.3
62.5°	5946.3	3974.7	119.3	51.7	31.6	20.1	12.9	8.6	5.7	1.4	1.4
65°	6673.4	4211.8	92.0	40.2	24.4	14.4	10.1	7.2	2.9	0.0	0.0
67.5°	6878.9	4095.4	67.5	31.6	17.2	10.1	7.2	4.3	1.4	0.0	0.0
69°	6673.4	3688.8	58.9	27.3	14.4	8.6	5.7	2.9	1.4	0.0	0.0
70°	6298.4	3372.6	51.7	23.0	12.9	8.6	4.3	2.9	1.4	0.0	0.0
72.5°	5268.0	2586.6	40.2	17.2	10.1	7.2	4.3	2.9	0.0	0.0	0.0
75°	3864.1	1597.9	30.2	12.9	8.6	5.7	4.3	2.9	0.0	0.0	0.0
77.5°	2070.7	583.4	21.6	8.6	5.7	4.3	4.3	2.9	0.0	0.0	0.0
80°	567.6	172.4	15.8	5.7	4.3	2.9	2.9	1.4	0.0	0.0	0.0
82.5°	155.2	44.5	10.1	5.7	4.3	2.9	1.4	0.0	0.0	0.0	0.0
85°	83.3	17.2	5.7	4.3	2.9	1.4	0.0	0.0	0.0	0.0	0.0
87.5°	43.1	5.7	4.3	2.9	2.9	1.4	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)