

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: INVUE

Report Number: P671333

Luminaire Tested: **CCP-SA-2E-850-U-SL2**

Issue Date: 04/16/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P671333  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/16/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCP-SA-2E-850-U-SL2  
Description: INVUE CLEAR CURVE POLE MOUNT LIGHT SQUARE LUMINAIRE @1050mA w/ SL2 distribution lens  
Light Source: (32) 5000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

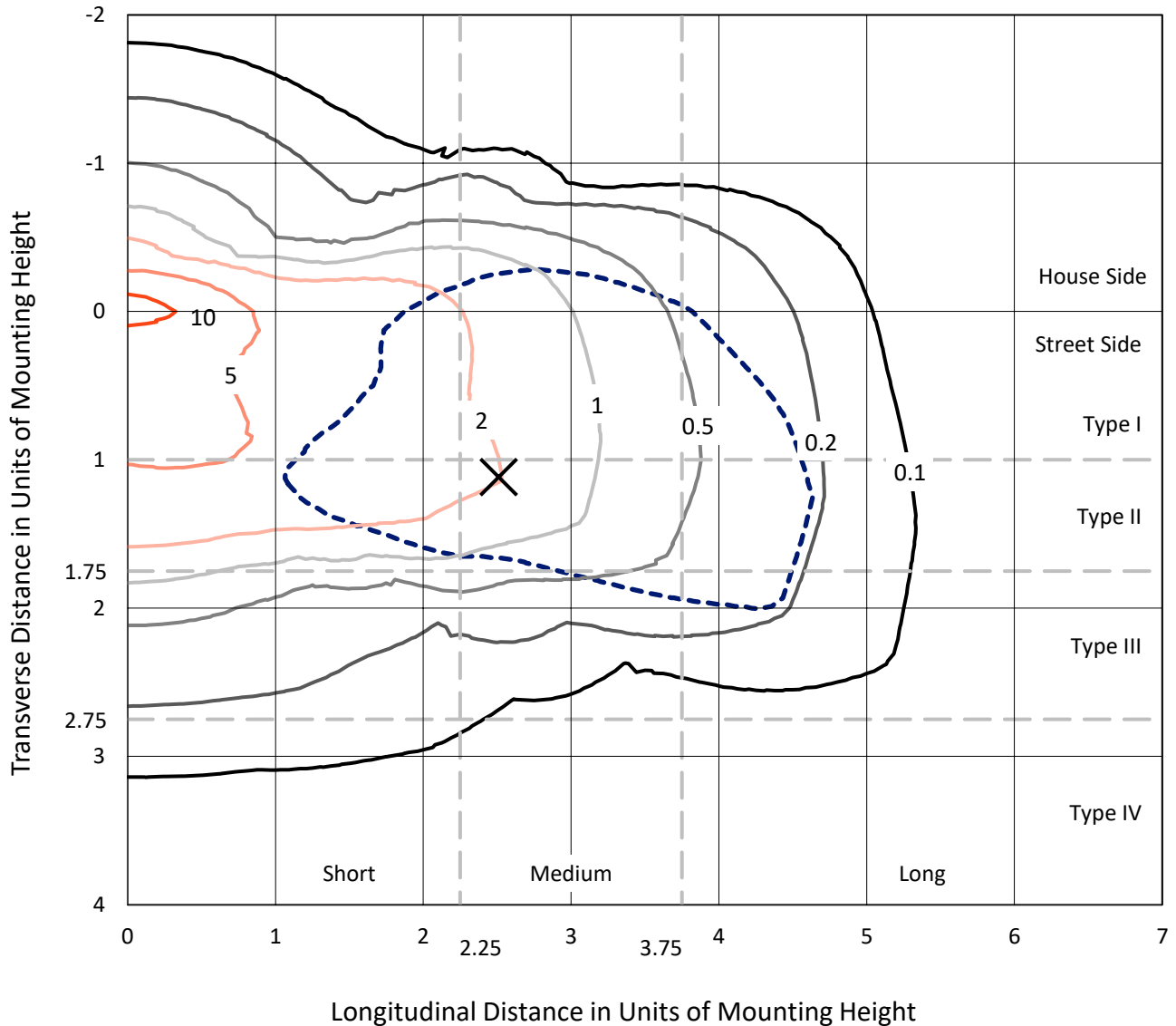
Lumens per Lamp: N/A  
Luminaire Lumens: 11808.1 lumens  
Efficiency: N/A  
Efficacy: 110.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B2 - U0 - G3

Input Watts (W): 106.6  
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: 25 FT

REPORT NUMBER: P671333  
 CATALOG NUMBER: CCP-SA-2E-850-U-SL2

### Iso-Footcandle Lines of Horizontal Illumination

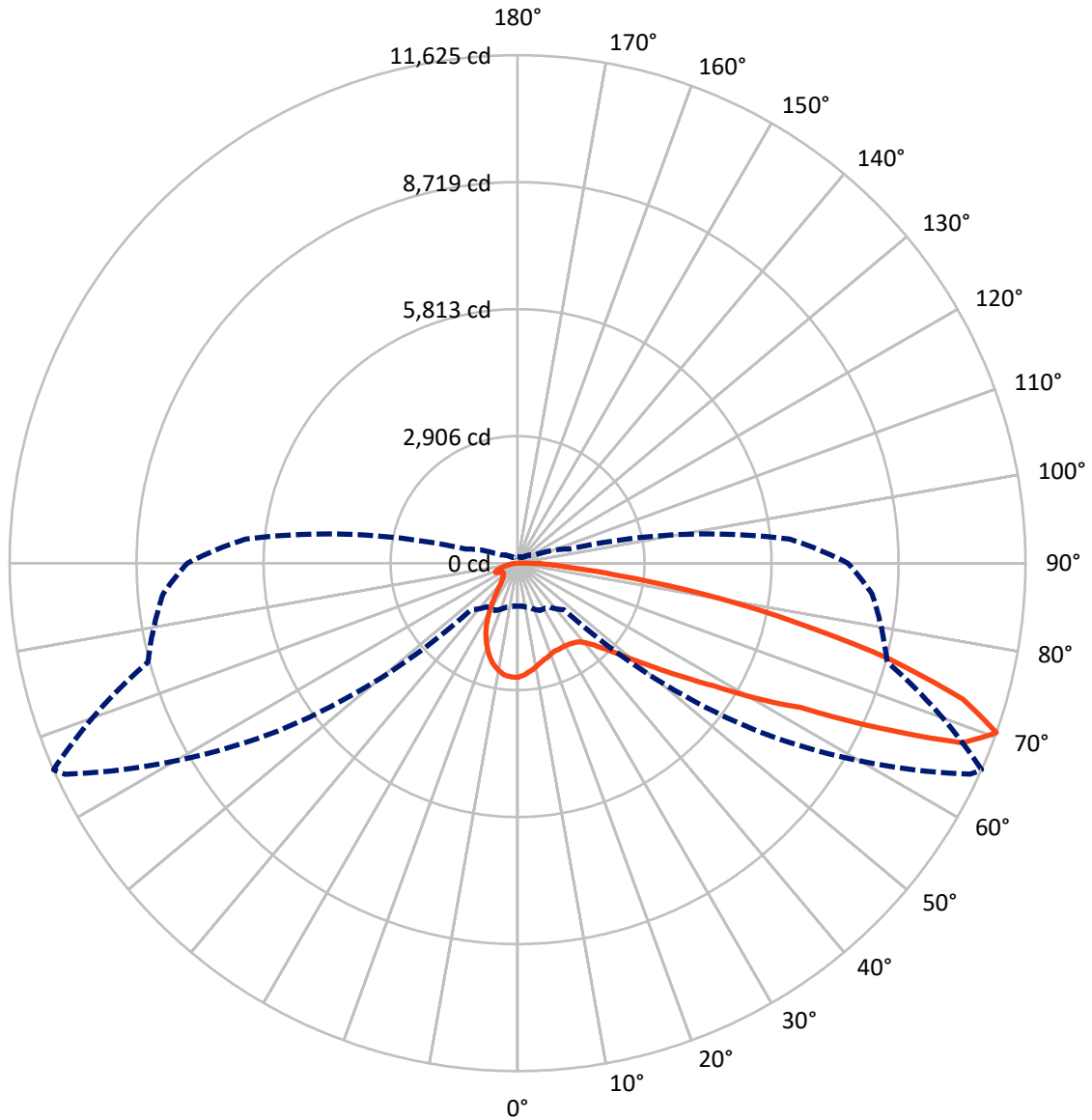
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 11.6 fc  
 Type III - Medium - N/A

REPORT NUMBER: P671333  
CATALOG NUMBER: CCP-SA-2E-850-U-SL2

### Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P671333

CATALOG NUMBER: CCP-SA-2E-850-U-SL2

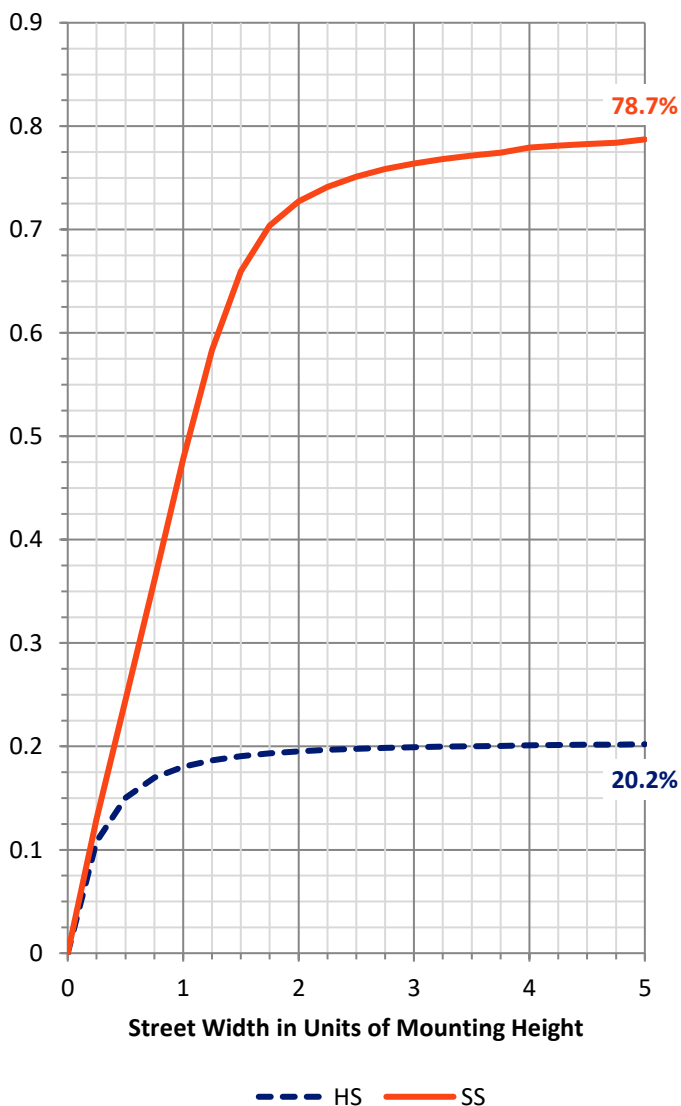
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2417.0	0.0	2417.0
	% Fixture	20.5	0.0	20.5
<b>Street Side</b>	Lumens	9391.1	0.0	9391.1
	% Fixture	79.5	0.0	79.5
<b>Total</b>	Lumens	11808.1	0.0	11808.1
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	230.7	2.0
10°-20°	567.8	4.8
20°-30°	779.9	6.6
30°-40°	1045.6	8.9
40°-50°	1517.1	12.8
50°-60°	2306.0	19.5
60°-70°	2848.1	24.1
70°-80°	2117.9	17.9
80°-90°	395.0	3.3
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°	11808.1	100.0
0°-180°	11808.1	100.0



REPORT NUMBER: P671333

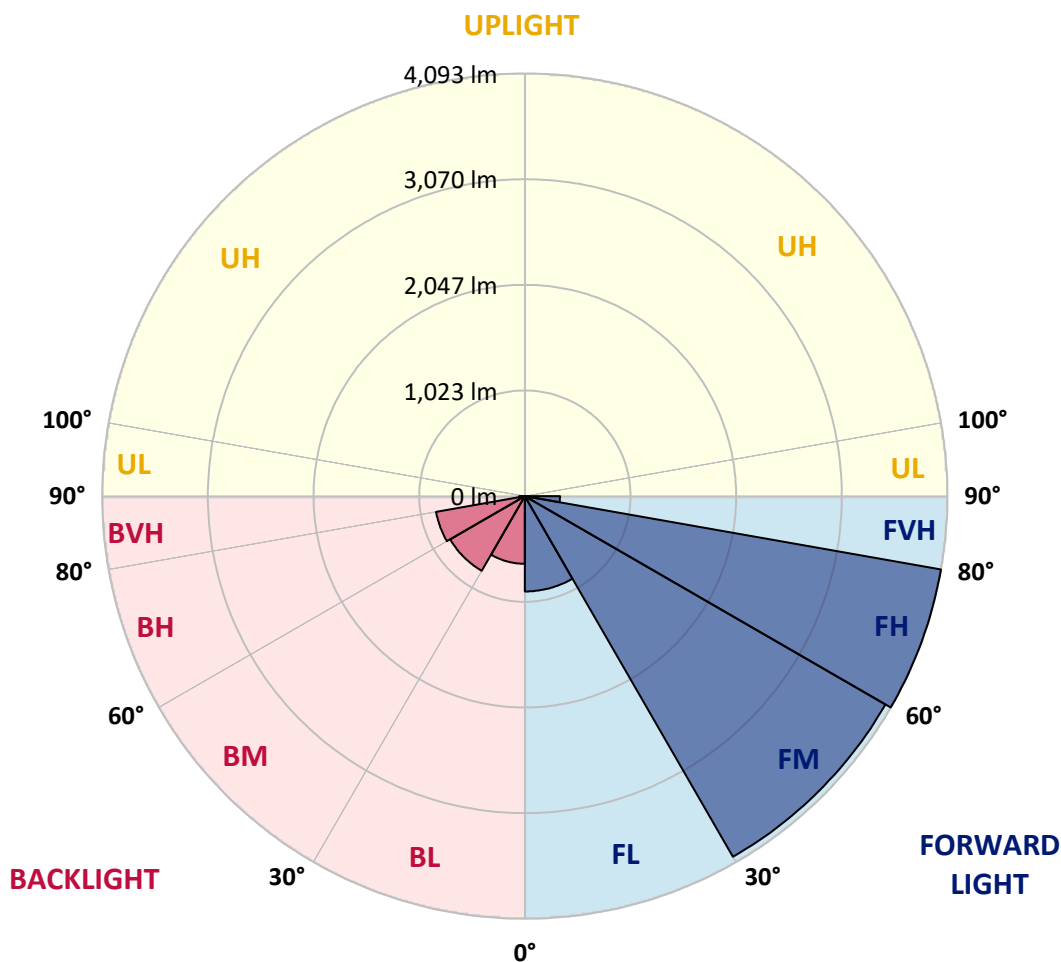
CATALOG NUMBER: CCP-SA-2E-850-U-SL2

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	923.3	7.8			
FM (30°-60°)	4033.8	34.2			
FH (60°-80°)	4093.5	34.7			G2/5000
FVH (80°-90°)	340.5	2.9			G3/500
BL (0°-30°)	655.1	5.5	B2/1000		
BM (30°-60°)	834.9	7.1	B1/1000		
BH (60°-80°)	872.5	7.4	B2/1000		G2/1000
BVH (80°-90°)	54.5	0.5			G1/100
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 Medium





REPORT NUMBER: P671333

CATALOG NUMBER: CCP-SA-2E-850-U-SL2

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	2608.8	2608.8	2608.8	2608.8	2608.8	2608.8	2608.8	2608.8	2608.8	2608.8	2608.8
2.5°	2481.4	2494.6	2499.0	2507.8	2529.7	2547.3	2573.6	2586.8	2573.6	2591.2	2591.2
5°	2310.1	2292.6	2336.5	2354.0	2380.4	2415.5	2477.0	2525.3	2512.2	2564.9	2608.8
7.5°	2165.2	2165.2	2178.4	2217.9	2248.6	2301.3	2367.2	2441.9	2463.8	2534.1	2600.0
10°	2033.4	2051.0	2051.0	2112.5	2130.1	2191.5	2301.3	2393.6	2398.0	2516.5	2608.8
12.5°	1963.2	1954.4	1998.3	2015.9	2068.6	2130.1	2217.9	2332.1	2336.5	2463.8	2591.2
15°	1906.1	1914.9	1936.8	1980.7	2029.0	2077.4	2160.8	2266.2	2288.2	2437.5	2582.4
17.5°	1910.5	1914.9	1914.9	1945.6	1985.1	2042.2	2121.3	2244.2	2257.4	2402.4	2569.2
20°	1936.8	1919.2	1932.4	1945.6	1972.0	2024.7	2090.5	2195.9	2209.1	2398.0	2600.0
22.5°	1993.9	1980.7	1976.3	1972.0	1967.6	1998.3	2081.7	2169.6	2182.8	2376.0	2613.2
25°	2086.1	2081.7	2051.0	2020.3	1998.3	1998.3	2064.2	2191.5	2187.2	2376.0	2621.9
27.5°	2195.9	2195.9	2191.5	2134.5	2068.6	2033.4	2077.4	2182.8	2178.4	2376.0	2643.9
30°	2345.3	2345.3	2332.1	2279.4	2160.8	2059.8	2086.1	2174.0	2187.2	2358.4	2626.3
32.5°	2507.8	2503.4	2516.5	2468.2	2345.3	2182.8	2138.8	2191.5	2204.7	2376.0	2630.7
35°	2626.3	2652.7	2696.6	2652.7	2529.7	2310.1	2213.5	2226.7	2235.5	2380.4	2648.3
37.5°	2762.5	2793.2	2854.7	2889.9	2758.1	2503.4	2332.1	2283.8	2283.8	2437.5	2652.7
40°	2960.1	2929.4	3034.8	3096.3	3043.6	2740.5	2516.5	2389.2	2393.6	2512.2	2709.8
42.5°	3105.1	3135.8	3245.6	3355.4	3289.5	3030.4	2718.6	2560.5	2560.5	2621.9	2797.6
45°	3267.6	3302.7	3456.4	3588.2	3636.5	3377.4	2995.3	2806.4	2797.6	2837.2	2955.7
47.5°	3447.6	3495.9	3671.6	3825.3	3952.7	3737.5	3351.0	3105.1	3100.7	3131.4	3219.2
50°	3654.0	3671.6	3816.5	4097.6	4352.3	4216.2	3785.8	3526.7	3504.7	3517.9	3636.5
52.5°	3715.5	3702.4	3869.2	4172.3	4637.8	4800.3	4378.7	4005.4	3996.6	3965.9	4119.6
55°	3491.5	3535.5	3698.0	4084.4	4870.6	5489.8	5028.7	4659.8	4580.7	4497.3	4681.7
57.5°	3043.6	3048.0	3232.4	3689.2	4690.5	6060.8	6131.1	5301.0	5305.4	5081.4	5292.2
60°	2367.2	2354.0	2499.0	2911.8	4176.7	6236.5	7334.4	6324.3	6280.4	5665.5	5858.8
62.5°	1708.4	1682.1	1712.8	1954.4	3122.6	5968.6	8515.8	7470.6	7286.1	6262.8	6412.1
65°	1405.4	1418.6	1431.8	1444.9	1752.4	4923.3	8880.4	9341.5	9095.6	6961.1	7022.6
67.5°	1163.8	1172.6	1229.7	1308.8	1300.0	2907.4	8458.8	11071.9	10979.7	7826.3	7549.6
70°	988.2	983.8	1049.7	1194.6	1216.5	1510.8	6697.6	11427.7	11625.3	8757.4	8146.9
72.5°	790.5	799.3	856.4	1049.7	1194.6	1273.6	3856.1	10663.5	10659.1	9473.3	7826.3
75°	566.6	566.6	645.6	869.6	1155.1	1260.5	2134.5	8656.4	8818.9	8902.3	6789.8
77.5°	373.3	390.9	452.4	650.0	1084.8	1234.1	1352.7	6293.6	6495.6	6658.1	5195.6
80°	254.7	263.5	303.0	452.4	917.9	1242.9	1106.8	4233.8	4312.8	3676.0	2108.1
82.5°	153.7	158.1	202.0	316.2	658.8	1181.4	1040.9	2336.5	2288.2	1111.1	606.1
85°	83.4	87.8	127.4	210.8	434.8	1032.1	1023.3	1146.3	1067.2	408.4	254.7
87.5°	30.7	30.7	57.1	105.4	250.3	707.1	891.6	680.7	636.8	206.4	118.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P671333  
 CATALOG NUMBER: CCP-SA-2E-850-U-SL2

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2608.8	2608.8	2608.8	2608.8	2608.8	2608.8	2608.8	2608.8	2608.8	2608.8	2608.8
2.5°	2613.2	2613.2	2613.2	2613.2	2608.8	2591.2	2604.4	2600.0	2573.6	2578.0	2560.5
5°	2604.4	2626.3	2613.2	2595.6	2573.6	2520.9	2503.4	2490.2	2455.1	2441.9	2455.1
7.5°	2626.3	2608.8	2600.0	2569.2	2481.4	2433.1	2371.6	2297.0	2244.2	2231.1	2244.2
10°	2621.9	2621.9	2582.4	2494.6	2411.1	2270.6	2191.5	2059.8	1985.1	1963.2	1967.6
12.5°	2604.4	2617.6	2556.1	2415.5	2257.4	2086.1	1941.2	1800.7	1668.9	1616.2	1607.4
15°	2621.9	2608.8	2499.0	2318.9	2099.3	1862.2	1651.3	1444.9	1322.0	1242.9	1225.3
17.5°	2595.6	2582.4	2424.3	2187.2	1892.9	1589.9	1326.3	1102.4	979.4	948.6	948.6
20°	2626.3	2542.9	2336.5	2029.0	1677.7	1291.2	992.6	825.7	794.9	794.9	803.7
22.5°	2621.9	2534.1	2261.8	1875.3	1418.6	975.0	737.8	689.5	693.9	729.1	724.7
25°	2595.6	2516.5	2156.4	1704.0	1146.3	733.4	610.5	597.3	628.0	667.6	663.2
27.5°	2591.2	2468.2	2059.8	1502.0	874.0	579.7	531.4	531.4	562.2	597.3	592.9
30°	2564.9	2428.7	1941.2	1273.6	658.8	505.1	487.5	487.5	500.7	518.2	518.2
32.5°	2560.5	2376.0	1809.5	1036.5	527.0	456.8	448.0	452.4	452.4	461.1	456.8
35°	2525.3	2305.7	1673.3	803.7	456.8	430.4	421.6	417.2	417.2	412.8	412.8
37.5°	2512.2	2261.8	1532.8	623.6	426.0	408.4	399.7	386.5	382.1	382.1	377.7
40°	2525.3	2217.9	1396.6	505.1	399.7	390.9	377.7	360.1	355.7	355.7	355.7
42.5°	2573.6	2213.5	1256.1	439.2	386.5	373.3	355.7	338.2	333.8	338.2	333.8
45°	2683.4	2248.6	1119.9	408.4	368.9	355.7	333.8	320.6	316.2	320.6	320.6
47.5°	2863.5	2345.3	997.0	390.9	355.7	338.2	316.2	303.0	303.0	303.0	303.0
50°	3162.1	2529.7	878.4	377.7	347.0	325.0	303.0	285.5	281.1	281.1	285.5
52.5°	3610.1	2845.9	781.8	368.9	333.8	307.4	285.5	272.3	263.5	259.1	263.5
55°	4150.3	3307.1	751.0	360.1	316.2	294.3	272.3	254.7	245.9	245.9	241.6
57.5°	4730.0	3816.5	803.7	351.3	303.0	276.7	254.7	237.2	228.4	224.0	224.0
60°	5358.1	4418.2	997.0	347.0	289.9	259.1	237.2	224.0	210.8	206.4	206.4
62.5°	5929.0	4962.8	1343.9	342.6	281.1	241.6	219.6	202.0	193.2	188.9	188.9
65°	6579.0	5568.9	1682.1	360.1	276.7	228.4	202.0	184.5	175.7	171.3	171.3
67.5°	7145.6	6095.9	1879.7	404.1	289.9	210.8	180.1	166.9	162.5	158.1	158.1
70°	7558.4	6258.4	1260.5	443.6	311.8	197.6	162.5	153.7	144.9	144.9	144.9
72.5°	7005.0	5586.5	746.6	417.2	294.3	184.5	144.9	136.1	131.8	131.8	127.4
75°	5990.5	4756.4	575.3	338.2	237.2	158.1	127.4	118.6	114.2	114.2	109.8
77.5°	4422.6	3408.1	426.0	267.9	184.5	127.4	109.8	105.4	101.0	96.6	96.6
80°	1730.4	1493.2	289.9	197.6	136.1	101.0	92.2	87.8	83.4	79.1	79.1
82.5°	535.8	452.4	166.9	131.8	96.6	79.1	74.7	70.3	65.9	61.5	61.5
85°	232.8	224.0	109.8	83.4	65.9	52.7	52.7	48.3	43.9	39.5	39.5
87.5°	114.2	109.8	61.5	39.5	35.1	26.4	26.4	22.0	17.6	17.6	17.6
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)