

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: P676393

Luminaire Tested: **CCW-SA-2C-727-U-T3-HSS**

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P676393  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-2C-727-U-T3-HSS  
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @615mA w/  
T3 distribution lens and House Side Shield  
Light Source: (32) 2700K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

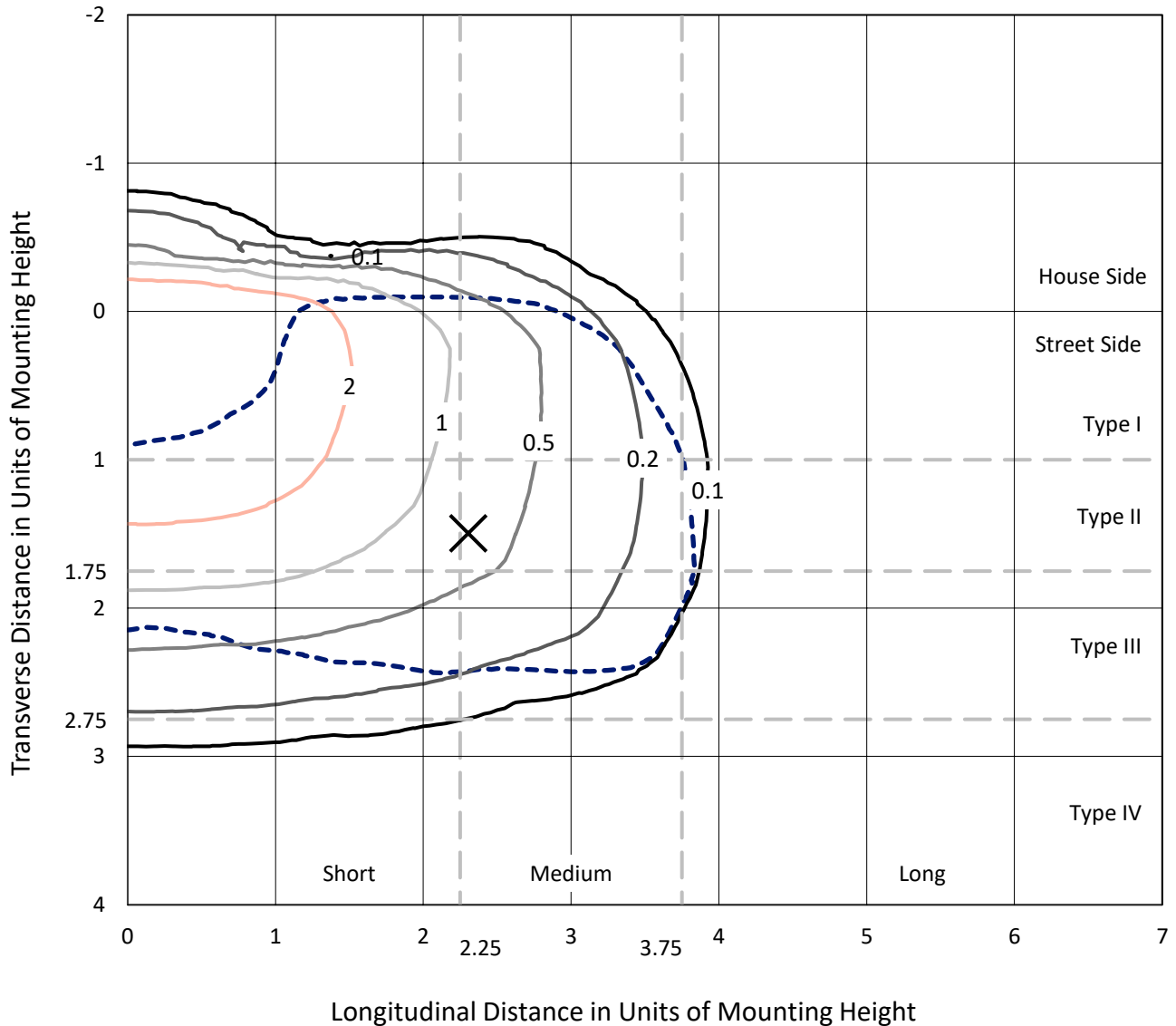
Lumens per Lamp: N/A  
Luminaire Lumens: 5447.3 lumens  
Efficiency: N/A  
Efficacy: 87.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G2

Input Watts (W): 62.1  
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: 25 FT

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### Iso-Footcandle Lines of Horizontal Illumination

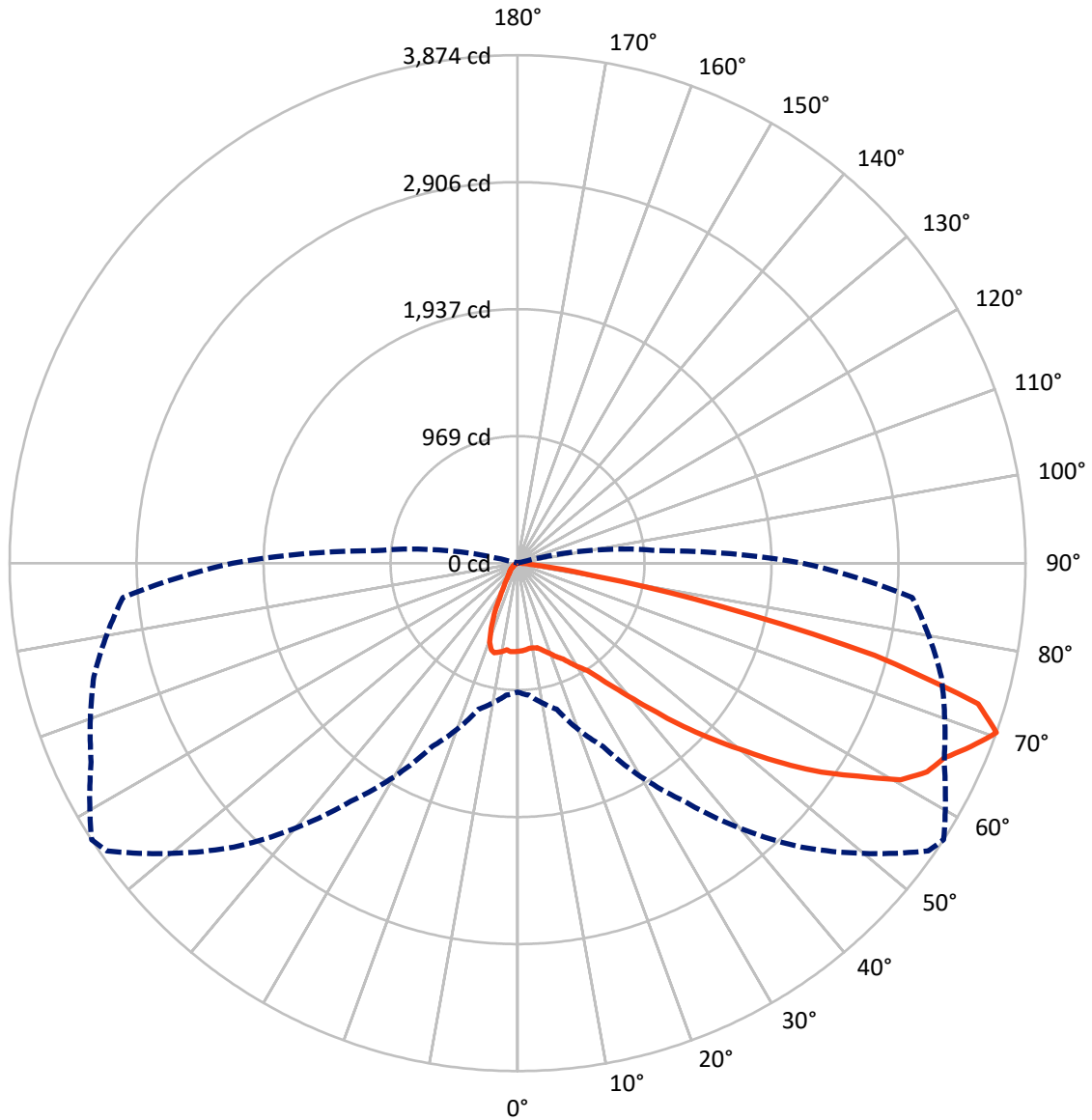
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 3.8 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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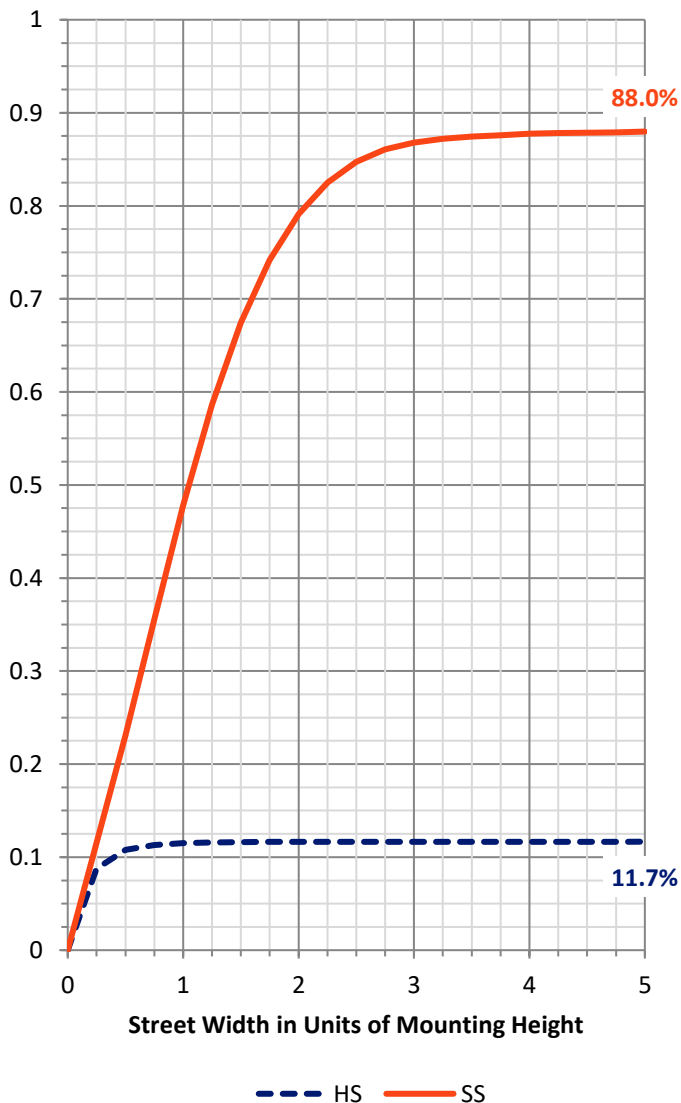
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	642.1	0.0	642.1
	% Fixture	11.8	0.0	11.8
<b>Street Side</b>	Lumens	4805.2	0.0	4805.2
	% Fixture	88.2	0.0	88.2
<b>Total</b>	Lumens	5447.3	0.0	5447.3
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	62.8	1.2
10°-20°	175.6	3.2
20°-30°	295.8	5.4
30°-40°	506.3	9.3
40°-50°	850.1	15.6
50°-60°	1304.8	24.0
60°-70°	1506.5	27.7
70°-80°	711.6	13.1
80°-90°	33.8	0.6
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°	5447.3	100.0
0°-180°	5447.3	100.0



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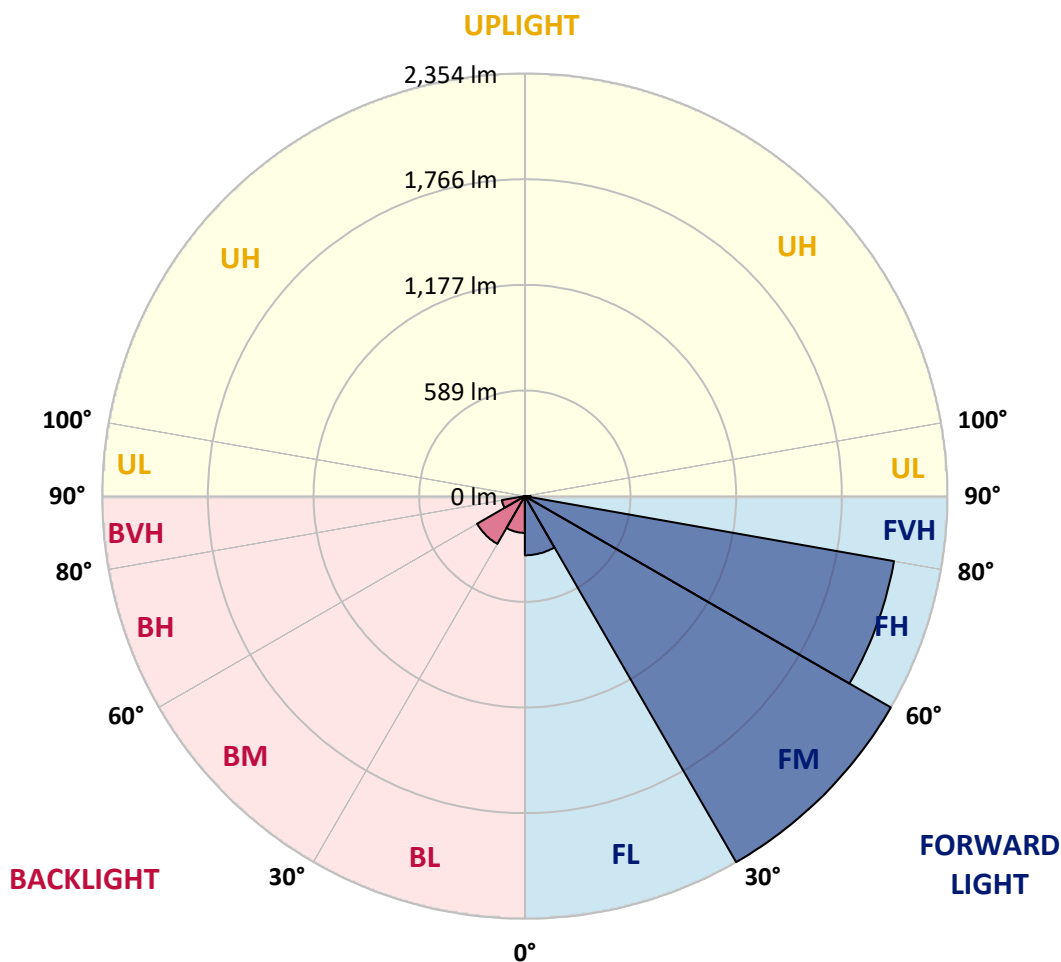
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	329.6	6.0			
FM (30°-60°)	2354.3	43.2			
FH (60°-80°)	2088.3	38.3			G2/5000
FVH (80°-90°)	33.2	0.6			G1/100
BL (0°-30°)	204.7	3.8	B1/500		
BM (30°-60°)	306.9	5.6	B1/1000		
BH (60°-80°)	129.9	2.4	B1/500		G1/500
BVH (80°-90°)	0.6	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 Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	672.1	672.1	672.1	672.1	672.1	672.1	672.1	672.1	672.1	672.1	672.1
2.5°	662.4	658.2	662.4	668.0	662.4	666.6	665.2	669.3	663.8	663.8	668.0
5°	619.3	626.2	629.0	635.9	642.9	655.4	663.8	663.8	672.1	676.3	681.9
7.5°	603.9	592.8	603.9	609.5	616.5	637.3	649.9	655.4	666.6	681.9	690.2
10°	581.7	590.0	590.0	608.1	617.9	630.4	652.6	656.8	681.9	697.2	705.5
12.5°	580.3	580.3	587.2	599.8	619.3	642.9	670.7	662.4	688.8	716.7	730.6
15°	584.5	594.2	594.2	610.9	626.2	659.6	683.3	684.7	722.2	750.1	762.6
17.5°	602.6	598.4	603.9	613.7	637.3	669.3	708.3	712.5	755.6	793.2	811.3
20°	640.1	647.1	638.7	633.2	642.9	684.7	734.8	743.1	791.8	828.0	846.1
22.5°	780.7	775.1	741.7	702.7	686.0	705.5	759.8	779.3	836.3	879.5	894.8
25°	939.3	929.6	890.6	832.2	755.6	747.3	809.9	809.9	892.0	939.3	935.1
27.5°	1089.6	1086.8	1040.9	979.7	871.1	811.3	850.3	865.6	954.6	993.6	975.5
30°	1242.7	1245.5	1203.7	1130.0	1015.8	914.3	907.3	919.8	1001.9	1063.2	1025.6
32.5°	1420.8	1395.7	1366.5	1264.9	1160.6	1046.5	981.1	975.5	1054.8	1110.5	1060.4
35°	1579.4	1564.1	1532.1	1440.3	1320.6	1184.2	1092.4	1078.5	1121.6	1195.4	1141.1
37.5°	1718.6	1703.3	1661.5	1600.3	1507.1	1355.4	1226.0	1205.1	1223.2	1301.1	1235.7
40°	1838.3	1842.4	1831.3	1771.5	1685.2	1547.4	1398.5	1365.1	1349.8	1419.4	1345.7
42.5°	1924.5	1964.9	1967.7	1893.9	1824.4	1749.2	1582.2	1555.8	1519.6	1578.0	1526.6
45°	2105.5	2083.2	2097.1	2070.7	1994.1	1983.0	1793.7	1778.4	1728.3	1747.8	1693.5
47.5°	2247.4	2243.2	2269.7	2226.5	2205.6	2207.0	2034.5	2008.0	1937.1	1973.3	1912.0
50°	2329.5	2307.2	2403.2	2436.6	2432.5	2449.2	2278.0	2255.7	2187.6	2240.4	2109.6
52.5°	2349.0	2389.3	2479.8	2600.9	2652.3	2687.1	2543.8	2535.4	2461.7	2495.1	2314.2
55°	2397.7	2436.6	2489.5	2688.5	2879.2	2887.5	2805.4	2813.8	2748.4	2740.0	2509.0
57.5°	2396.3	2387.9	2534.1	2765.1	3029.5	3149.1	3104.6	3064.2	2993.3	2911.2	2634.2
60°	2308.6	2304.4	2456.1	2774.8	3111.6	3385.7	3403.8	3356.5	3178.4	3057.3	2781.8
62.5°	2134.7	2151.4	2304.4	2691.3	3189.5	3470.6	3537.4	3505.4	3284.1	3154.7	2955.7
65°	1935.7	1900.9	2079.0	2482.6	3014.1	3445.5	3590.3	3579.1	3409.4	3260.5	3115.7
67.5°	1553.0	1568.3	1704.7	2136.1	2715.0	3353.7	3714.1	3730.8	3509.5	3353.7	3164.4
70°	983.8	1011.7	1153.6	1543.3	2216.8	3064.2	3825.4	3874.1	3588.9	3345.3	3022.5
72.5°	286.7	297.8	491.2	769.5	1412.4	2457.5	3647.3	3672.4	3434.4	3036.4	2337.8
75°	94.6	100.2	144.7	250.5	553.8	1270.5	2694.1	2812.4	2733.1	2201.5	1337.3
77.5°	62.6	65.4	79.3	119.7	210.1	398.0	1444.5	1571.1	1540.5	1031.2	431.4
80°	45.9	47.3	58.4	80.7	128.0	143.3	533.0	616.5	595.6	236.6	86.3
82.5°	29.2	29.2	43.1	57.1	80.7	71.0	154.5	171.2	167.0	90.5	33.4
85°	19.5	20.9	32.0	44.5	44.5	33.4	44.5	51.5	55.7	48.7	15.3
87.5°	5.6	7.0	18.1	30.6	18.1	16.7	15.3	16.7	19.5	26.4	8.3
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°	672.1	672.1	672.1	672.1	672.1	672.1	672.1	672.1	672.1	672.1	672.1
2.5°	672.1	677.7	676.3	679.1	674.9	670.7	674.9	674.9	674.9	670.7	668.0
5°	677.7	674.9	677.7	672.1	677.7	672.1	669.3	661.0	659.6	659.6	665.2
7.5°	686.0	688.8	676.3	676.3	663.8	666.6	659.6	661.0	658.2	654.0	651.3
10°	698.6	709.7	697.2	693.0	679.1	668.0	651.3	642.9	642.9	637.3	642.9
12.5°	733.4	729.2	722.2	708.3	691.6	669.3	629.0	588.6	555.2	530.2	542.7
15°	761.2	759.8	750.1	723.6	701.4	633.2	531.6	427.2	371.6	346.5	342.3
17.5°	804.3	800.2	783.5	748.7	674.9	524.6	364.6	276.9	222.7	210.1	206.0
20°	844.7	843.3	807.1	762.6	608.1	382.7	238.0	182.3	167.0	168.4	165.6
22.5°	887.8	880.9	837.7	745.9	484.3	254.7	169.8	162.8	157.2	155.9	158.6
25°	936.5	911.5	868.3	708.3	356.2	175.3	160.0	154.5	148.9	147.5	147.5
27.5°	956.0	939.3	882.3	617.9	225.4	153.1	150.3	143.3	136.4	132.2	130.8
30°	1000.5	972.7	896.2	485.7	160.0	140.5	136.4	128.0	118.3	111.3	111.3
32.5°	1045.1	1011.7	897.6	339.5	133.6	126.6	119.7	108.5	96.0	89.1	90.5
35°	1100.7	1054.8	882.3	219.9	119.7	111.3	97.4	84.9	73.8	68.2	68.2
37.5°	1195.4	1152.2	819.6	144.7	108.5	94.6	80.7	66.8	57.1	52.9	52.9
40°	1315.0	1259.4	733.4	114.1	96.0	80.7	64.0	51.5	45.9	41.7	41.7
42.5°	1458.4	1388.8	605.3	101.6	84.9	66.8	50.1	40.4	34.8	34.8	33.4
45°	1601.7	1487.6	474.5	93.2	75.1	55.7	39.0	32.0	29.2	27.8	27.8
47.5°	1806.3	1607.3	339.5	84.9	65.4	43.1	32.0	26.4	23.7	22.3	23.7
50°	2002.5	1720.0	240.7	76.5	54.3	34.8	26.4	23.7	20.9	19.5	19.5
52.5°	2175.0	1797.9	168.4	66.8	45.9	29.2	23.7	20.9	19.5	18.1	18.1
55°	2269.7	1771.5	115.5	57.1	37.6	25.0	20.9	18.1	16.7	15.3	15.3
57.5°	2367.1	1697.7	87.7	47.3	30.6	23.7	19.5	16.7	15.3	13.9	13.9
60°	2449.2	1643.4	68.2	37.6	25.0	19.5	16.7	13.9	12.5	11.1	9.7
62.5°	2453.3	1534.9	50.1	27.8	19.5	16.7	13.9	11.1	7.0	5.6	4.2
65°	2470.0	1420.8	36.2	20.9	13.9	12.5	9.7	5.6	2.8	0.0	0.0
67.5°	2411.6	1285.8	29.2	15.3	9.7	7.0	4.2	1.4	0.0	0.0	0.0
70°	2173.6	1085.4	22.3	11.1	7.0	4.2	1.4	0.0	0.0	0.0	0.0
72.5°	1555.8	705.5	15.3	8.3	2.8	1.4	0.0	0.0	0.0	0.0	0.0
75°	829.4	300.6	11.1	5.6	1.4	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	260.2	76.5	7.0	2.8	1.4	0.0	0.0	0.0	0.0	0.0	0.0
80°	57.1	20.9	4.2	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	19.5	8.3	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	7.0	2.8	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.8	1.4	1.4	0.0	0.0	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)