

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: P676503

Luminaire Tested: **CCW-SA-2C-850-U-T3-HSS**

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P676503  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-2C-850-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) 5000K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5683.8 lumens  
Efficiency: N/A  
Efficacy: 91.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G2

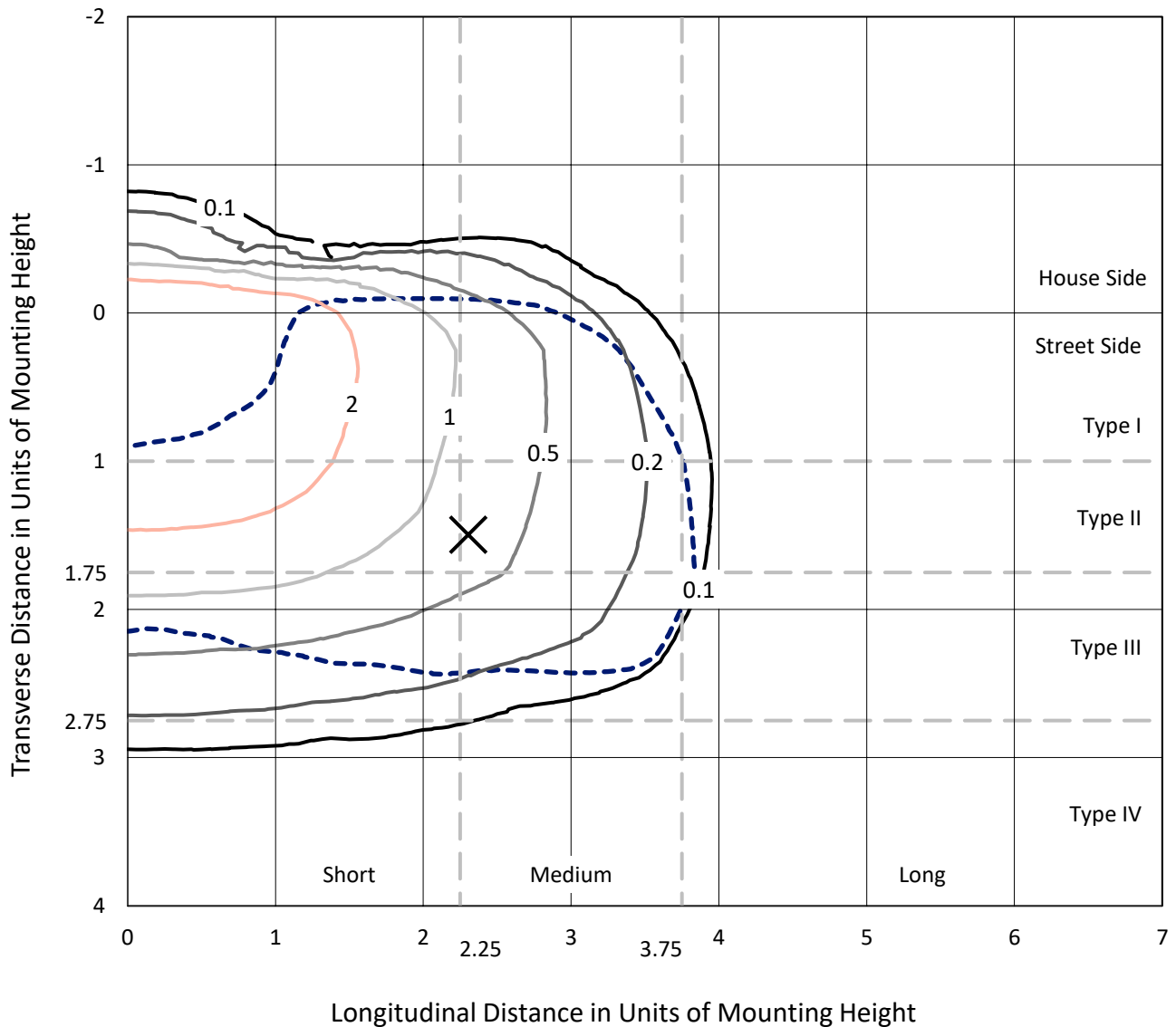
Input Watts (W): 62.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

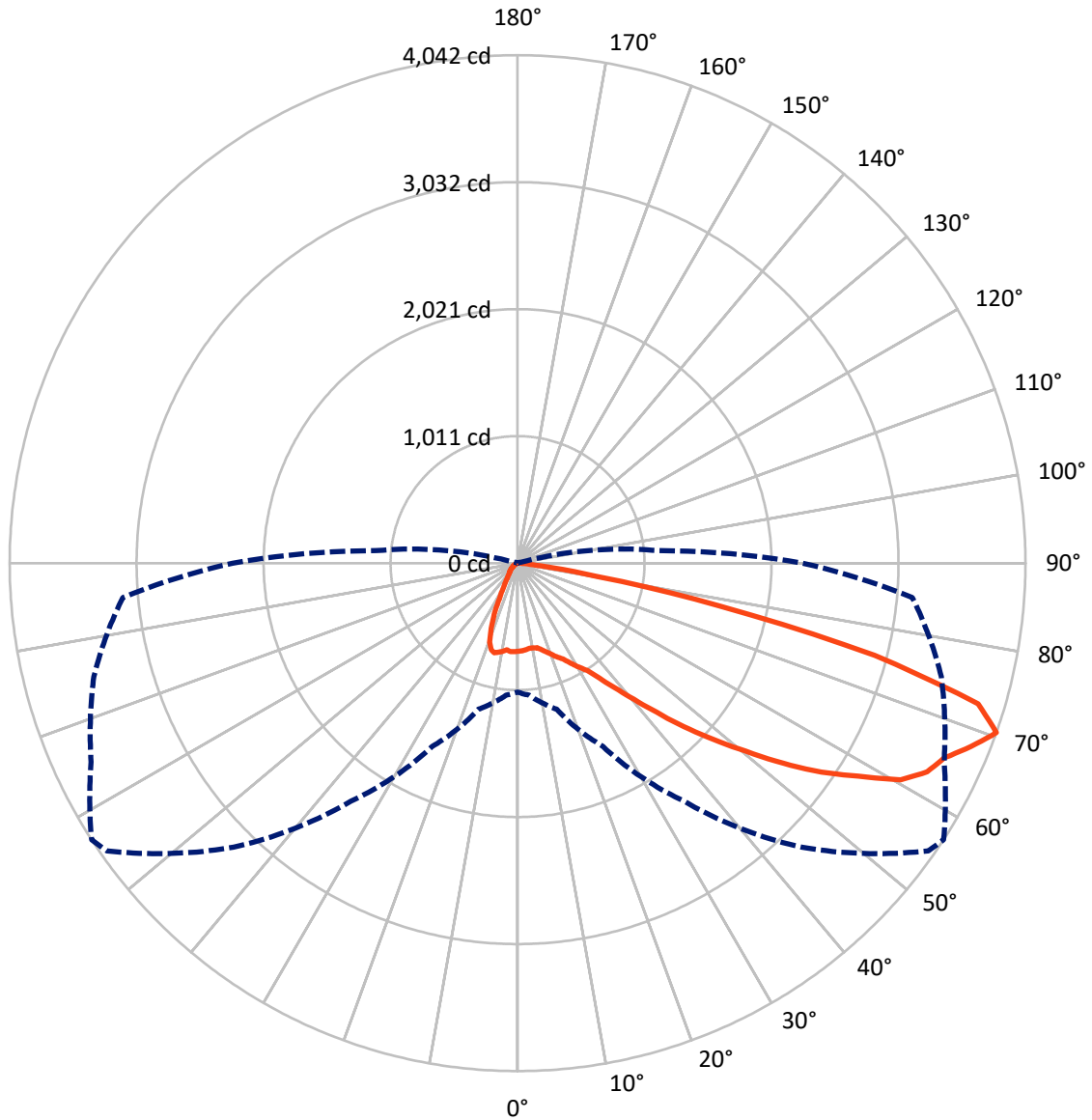
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 4 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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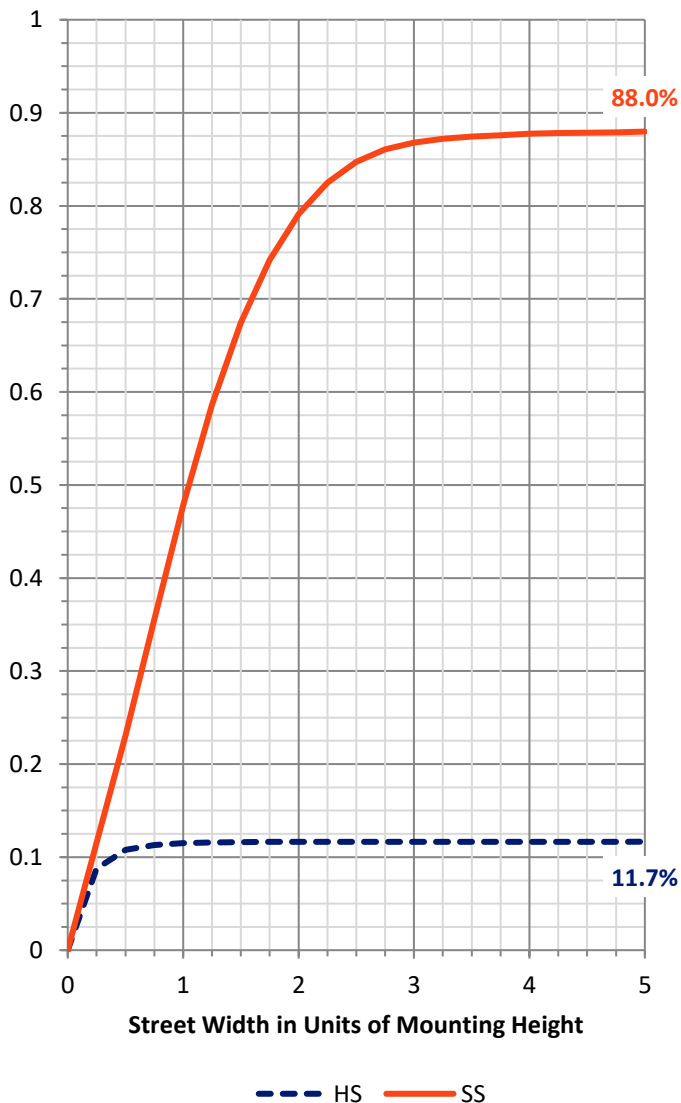
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	670.0	0.0	670.0
	% Fixture	11.8	0.0	11.8
<b>Street Side</b>	Lumens	5013.8	0.0	5013.8
	% Fixture	88.2	0.0	88.2
<b>Total</b>	Lumens	5683.8	0.0	5683.8
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	65.6	1.2
10°-20°	183.2	3.2
20°-30°	308.6	5.4
30°-40°	528.2	9.3
40°-50°	887.0	15.6
50°-60°	1361.5	24.0
60°-70°	1571.9	27.7
70°-80°	742.5	13.1
80°-90°	35.2	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°	5683.8	100.0
0°-180°	5683.8	100.0



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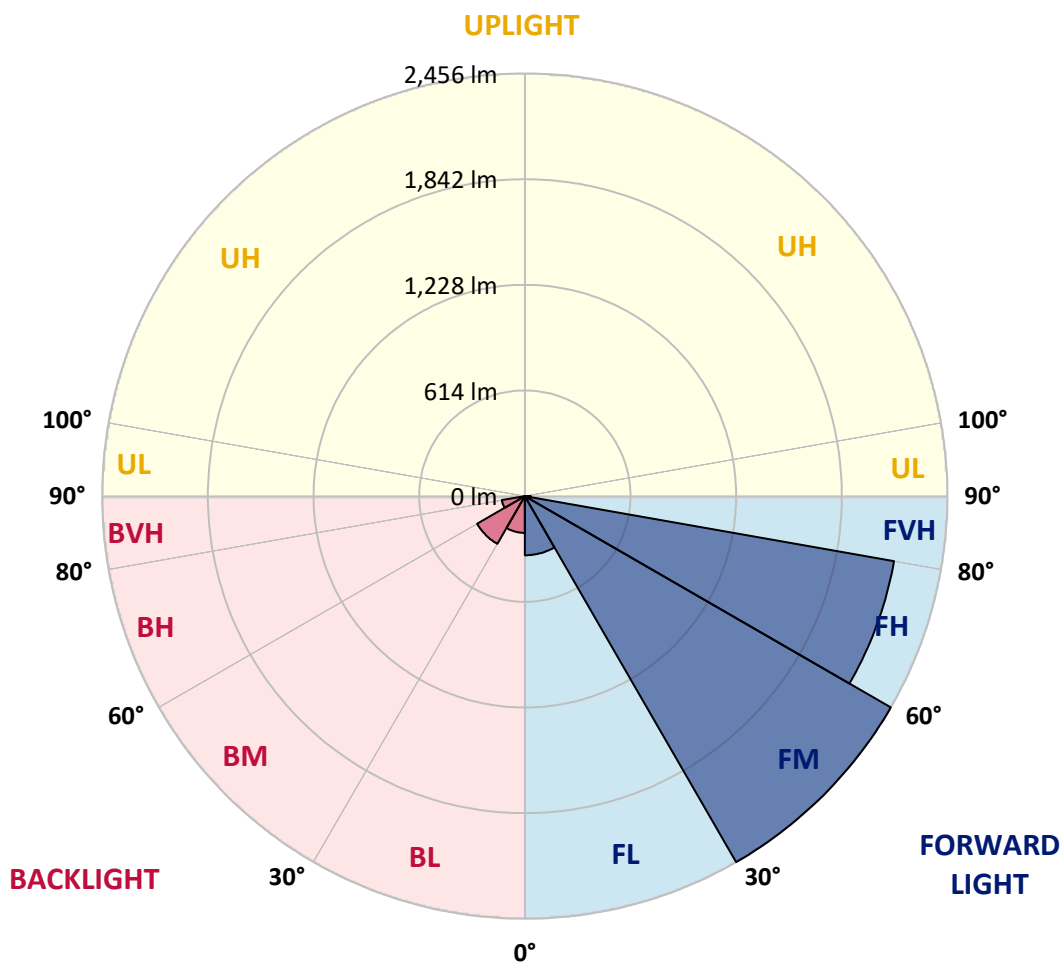
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	343.9	6.0			
FM (30°-60°)	2456.4	43.2			
FH (60°-80°)	2178.9	38.3			G2/5000
FVH (80°-90°)	34.6	0.6			G1/100
BL (0°-30°)	213.6	3.8	B1/500		
BM (30°-60°)	320.2	5.6	B1/1000		
BH (60°-80°)	135.5	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°	701.3	701.3	701.3	701.3	701.3	701.3	701.3	701.3	701.3	701.3	701.3
2.5°	691.1	686.8	691.1	696.9	691.1	695.5	694.0	698.4	692.6	692.6	696.9
5°	646.1	653.4	656.3	663.6	670.8	683.9	692.6	692.6	701.3	705.7	711.5
7.5°	630.2	618.5	630.2	636.0	643.2	665.0	678.1	683.9	695.5	711.5	720.2
10°	606.9	615.6	615.6	634.5	644.7	657.7	681.0	685.3	711.5	727.4	736.2
12.5°	605.5	605.5	612.7	625.8	646.1	670.8	699.9	691.1	718.7	747.8	762.3
15°	609.8	620.0	620.0	637.4	653.4	688.2	712.9	714.4	753.6	782.6	795.7
17.5°	628.7	624.3	630.2	640.3	665.0	698.4	739.1	743.4	788.4	827.6	846.5
20°	667.9	675.2	666.5	660.6	670.8	714.4	766.6	775.4	826.2	863.9	882.8
22.5°	814.6	808.8	773.9	733.2	715.8	736.2	792.8	813.1	872.6	917.6	933.6
25°	980.1	969.9	929.3	868.3	788.4	779.7	845.1	845.1	930.7	980.1	975.7
27.5°	1136.9	1134.0	1086.1	1022.2	908.9	846.5	887.2	903.1	996.1	1036.7	1017.8
30°	1296.6	1299.5	1256.0	1179.0	1059.9	953.9	946.7	959.8	1045.4	1109.3	1070.1
32.5°	1482.5	1456.3	1425.8	1319.8	1210.9	1091.9	1023.6	1017.8	1100.6	1158.7	1106.4
35°	1648.0	1632.0	1598.6	1502.8	1377.9	1235.6	1139.8	1125.3	1170.3	1247.2	1190.6
37.5°	1793.2	1777.2	1733.7	1669.8	1572.5	1414.2	1279.2	1257.4	1276.3	1357.6	1289.4
40°	1918.1	1922.4	1910.8	1848.4	1758.3	1614.6	1459.2	1424.4	1408.4	1481.0	1404.1
42.5°	2008.1	2050.2	2053.1	1976.1	1903.5	1825.1	1650.9	1623.3	1585.6	1646.5	1592.8
45°	2196.8	2173.6	2188.1	2160.5	2080.7	2069.1	1871.6	1855.6	1803.4	1823.7	1767.1
47.5°	2344.9	2340.6	2368.2	2323.2	2301.4	2302.8	2122.8	2095.2	2021.2	2058.9	1995.0
50°	2430.6	2407.4	2507.6	2542.4	2538.1	2555.5	2376.9	2353.7	2282.5	2337.7	2201.2
52.5°	2450.9	2493.0	2587.4	2713.7	2767.5	2803.8	2654.2	2645.5	2568.5	2603.4	2414.6
55°	2501.8	2542.4	2597.6	2805.2	3004.1	3012.9	2927.2	2935.9	2867.7	2858.9	2617.9
57.5°	2500.3	2491.6	2644.0	2885.1	3161.0	3285.8	3239.4	3197.3	3123.2	3037.5	2748.6
60°	2408.8	2404.5	2562.7	2895.2	3246.6	3532.7	3551.5	3502.2	3316.3	3190.0	2902.5
62.5°	2227.3	2244.8	2404.5	2808.1	3327.9	3621.2	3690.9	3657.5	3426.7	3291.6	3084.0
65°	2019.7	1983.4	2169.3	2590.3	3145.0	3595.1	3746.1	3734.5	3557.3	3402.0	3251.0
67.5°	1620.4	1636.4	1778.7	2228.8	2832.8	3499.3	3875.3	3892.7	3661.9	3499.3	3301.8
70°	1026.5	1055.6	1203.7	1610.2	2313.0	3197.3	3991.5	4042.3	3744.6	3490.6	3153.7
72.5°	299.1	310.7	512.5	802.9	1473.8	2564.2	3805.6	3831.8	3583.5	3168.2	2439.3
75°	98.7	104.5	151.0	261.4	577.9	1325.7	2811.0	2934.4	2851.7	2297.0	1395.3
77.5°	65.3	68.2	82.8	124.9	219.2	415.3	1507.2	1639.3	1607.3	1075.9	450.1
80°	47.9	49.4	61.0	84.2	133.6	149.6	556.1	643.2	621.4	246.8	90.0
82.5°	30.5	30.5	45.0	59.5	84.2	74.1	161.2	178.6	174.2	94.4	34.8
85°	20.3	21.8	33.4	46.5	46.5	34.8	46.5	53.7	58.1	50.8	16.0
87.5°	5.8	7.3	18.9	31.9	18.9	17.4	16.0	17.4	20.3	27.6	8.7
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°	701.3	701.3	701.3	701.3	701.3	701.3	701.3	701.3	701.3	701.3	701.3
2.5°	701.3	707.1	705.7	708.6	704.2	699.9	704.2	704.2	704.2	699.9	696.9
5°	707.1	704.2	707.1	701.3	707.1	701.3	698.4	689.7	688.2	688.2	694.0
7.5°	715.8	718.7	705.7	705.7	692.6	695.5	688.2	689.7	686.8	682.4	679.5
10°	728.9	740.5	727.4	723.1	708.6	696.9	679.5	670.8	670.8	665.0	670.8
12.5°	765.2	760.8	753.6	739.1	721.6	698.4	656.3	614.2	579.3	553.2	566.3
15°	794.2	792.8	782.6	755.0	731.8	660.6	554.7	445.8	387.7	361.5	357.2
17.5°	839.2	834.9	817.5	781.2	704.2	547.4	380.4	288.9	232.3	219.2	214.9
20°	881.3	879.9	842.1	795.7	634.5	399.3	248.3	190.2	174.2	175.7	172.8
22.5°	926.4	919.1	874.1	778.3	505.3	265.7	177.1	169.9	164.1	162.6	165.5
25°	977.2	951.0	906.0	739.1	371.7	182.9	167.0	161.2	155.4	153.9	153.9
27.5°	997.5	980.1	920.6	644.7	235.2	159.7	156.8	149.6	142.3	137.9	136.5
30°	1044.0	1014.9	935.1	506.7	167.0	146.6	142.3	133.6	123.4	116.2	116.2
32.5°	1090.4	1055.6	936.5	354.3	139.4	132.1	124.9	113.3	100.2	92.9	94.4
35°	1148.5	1100.6	920.6	229.4	124.9	116.2	101.6	88.6	77.0	71.1	71.1
37.5°	1247.2	1202.2	855.2	151.0	113.3	98.7	84.2	69.7	59.5	55.2	55.2
40°	1372.1	1314.0	765.2	119.1	100.2	84.2	66.8	53.7	47.9	43.6	43.6
42.5°	1521.7	1449.1	631.6	106.0	88.6	69.7	52.3	42.1	36.3	36.3	34.8
45°	1671.2	1552.2	495.1	97.3	78.4	58.1	40.7	33.4	30.5	29.0	29.0
47.5°	1884.7	1677.0	354.3	88.6	68.2	45.0	33.4	27.6	24.7	23.2	24.7
50°	2089.4	1794.6	251.2	79.9	56.6	36.3	27.6	24.7	21.8	20.3	20.3
52.5°	2269.4	1876.0	175.7	69.7	47.9	30.5	24.7	21.8	20.3	18.9	18.9
55°	2368.2	1848.4	120.5	59.5	39.2	26.1	21.8	18.9	17.4	16.0	16.0
57.5°	2469.8	1771.4	91.5	49.4	31.9	24.7	20.3	17.4	16.0	14.5	14.5
60°	2555.5	1714.8	71.1	39.2	26.1	20.3	17.4	14.5	13.1	11.6	10.2
62.5°	2559.8	1601.5	52.3	29.0	20.3	17.4	14.5	11.6	7.3	5.8	4.4
65°	2577.3	1482.5	37.8	21.8	14.5	13.1	10.2	5.8	2.9	0.0	0.0
67.5°	2516.3	1341.6	30.5	16.0	10.2	7.3	4.4	1.5	0.0	0.0	0.0
70°	2268.0	1132.5	23.2	11.6	7.3	4.4	1.5	0.0	0.0	0.0	0.0
72.5°	1623.3	736.2	16.0	8.7	2.9	1.5	0.0	0.0	0.0	0.0	0.0
75°	865.4	313.6	11.6	5.8	1.5	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	271.5	79.9	7.3	2.9	1.5	0.0	0.0	0.0	0.0	0.0	0.0
80°	59.5	21.8	4.4	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	20.3	8.7	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	7.3	2.9	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.9	1.5	1.5	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)