

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: P675027

Luminaire Tested: **CCW-SA-1F-830-U-T3**

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P675027  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-1F-830-U-T3  
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @1200mA w/  
T3 distribution lens  
Light Source: (16) 3000K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

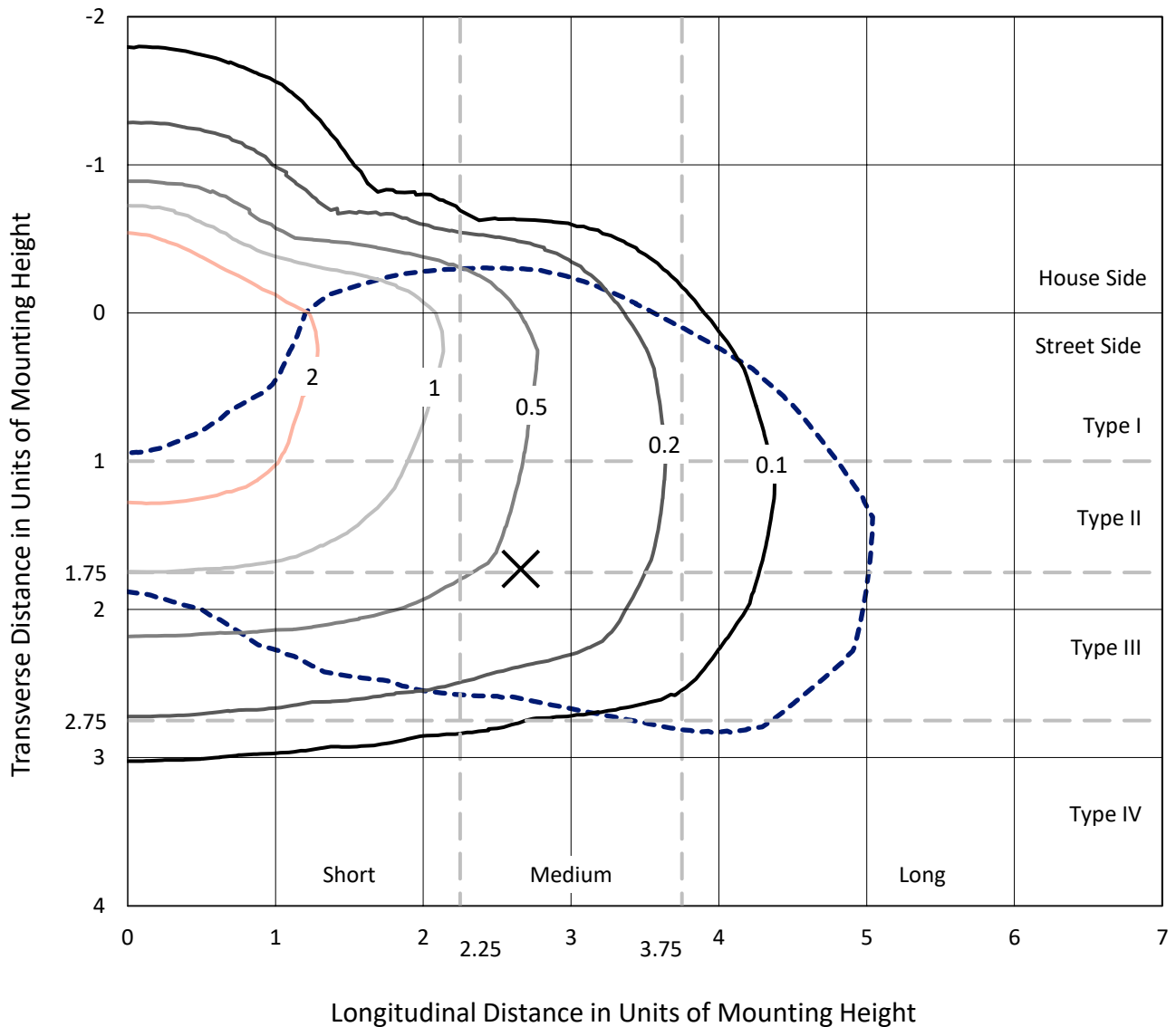
Lumens per Lamp: N/A  
Luminaire Lumens: 6019.5 lumens  
Efficiency: N/A  
Efficacy: 89.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G2

Input Watts (W): 67  
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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 CATALOG NUMBER: CCW-SA-1F-830-U-T3

### Iso-Footcandle Lines of Horizontal Illumination

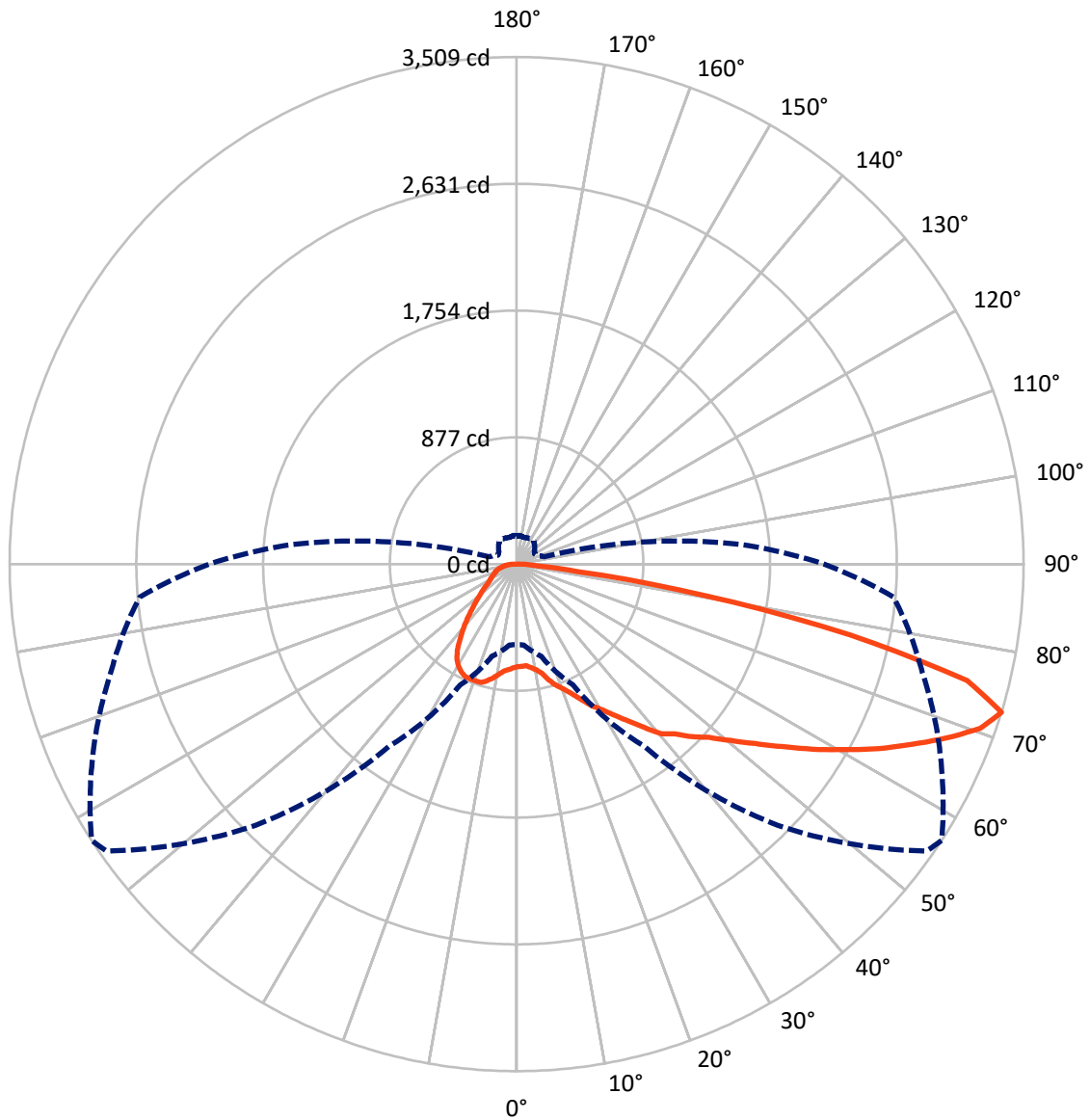
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 3.6 fc  
 Type III - Medium - N/A

REPORT NUMBER: P675027  
CATALOG NUMBER: CCW-SA-1F-830-U-T3

### Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral    - - - Horizontal Cone Through 72.5-Deg Vertical

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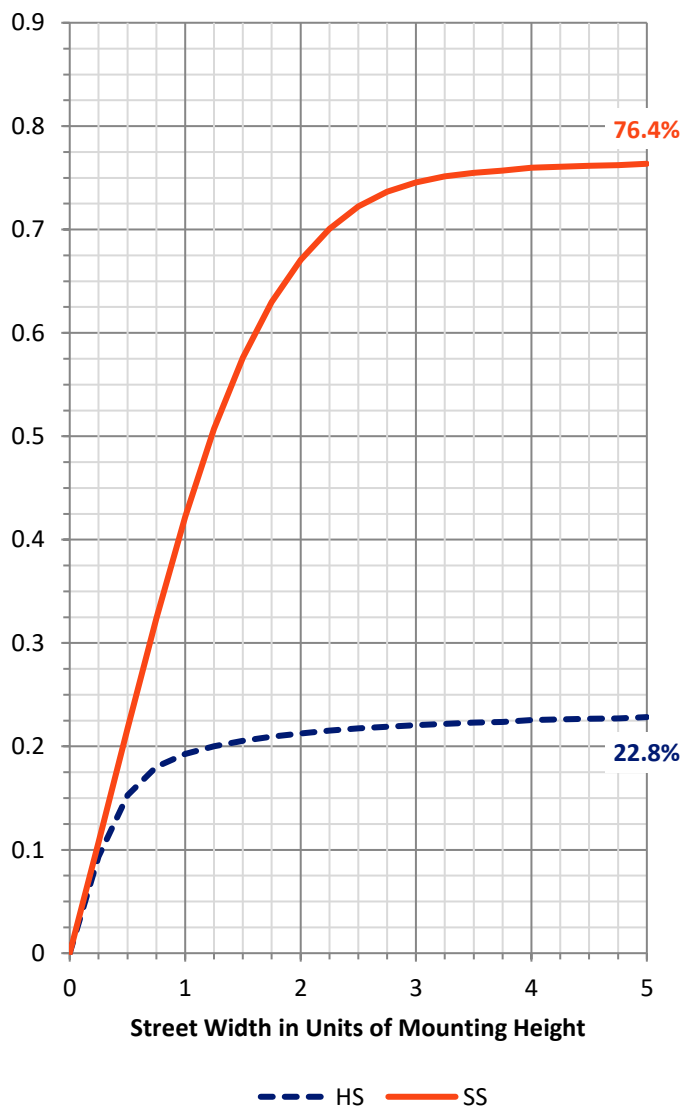
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1405.8	0.0	1405.8
	% Fixture	23.4	0.0	23.4
<b>Street Side</b>	Lumens	4613.8	0.0	4613.8
	% Fixture	76.6	0.0	76.6
<b>Total</b>	Lumens	6019.5	0.0	6019.5
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	70.5	1.2
10°-20°	237.7	3.9
20°-30°	434.5	7.2
30°-40°	637.5	10.6
40°-50°	877.7	14.6
50°-60°	1203.6	20.0
60°-70°	1450.8	24.1
70°-80°	966.5	16.1
80°-90°	140.8	2.3
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°	6019.5	100.0
0°-180°	6019.5	100.0

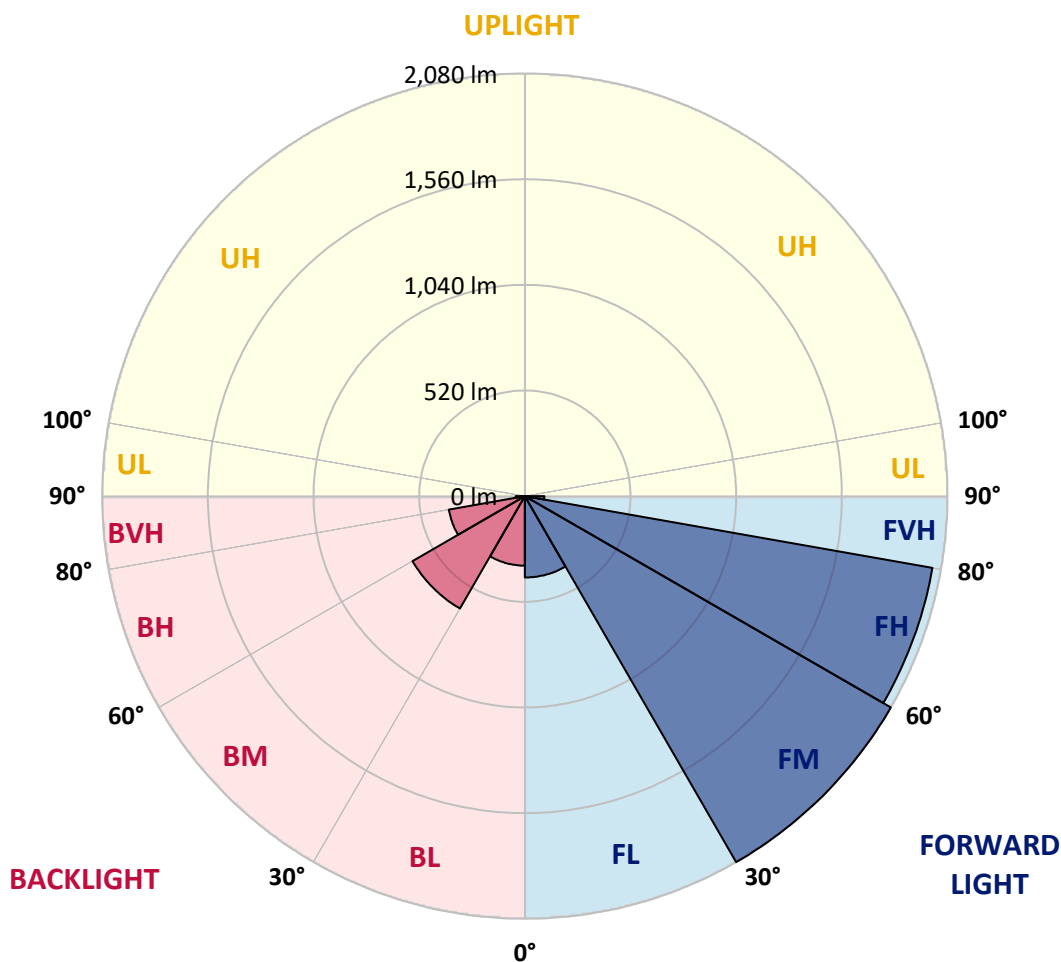


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 CATALOG NUMBER: CCW-SA-1F-830-U-T3

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	400.4	6.7			
FM (30°-60°)	2080.2	34.6			
FH (60°-80°)	2037.2	33.8			G2/5000
FVH (80°-90°)	95.9	1.6			G1/100
BL (0°-30°)	342.3	5.7	B1/500		
BM (30°-60°)	638.5	10.6	B1/1000		
BH (60°-80°)	380.1	6.3	B1/500		G1/500
BVH (80°-90°)	44.9	0.7			G1/100
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





REPORT NUMBER: P675027

CATALOG NUMBER: CCW-SA-1F-830-U-T3

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	710.5	710.5	710.5	710.5	710.5	710.5	710.5	710.5	710.5	710.5	710.5
2.5°	697.3	699.5	703.9	701.7	701.7	695.1	706.1	708.3	703.9	706.1	710.5
5°	697.3	701.7	708.3	703.9	706.1	703.9	699.5	706.1	706.1	708.3	714.9
7.5°	734.6	732.4	732.4	725.8	723.7	721.5	723.7	723.7	719.3	721.5	721.5
10°	776.3	776.3	771.9	771.9	767.5	756.5	745.6	743.4	736.8	739.0	739.0
12.5°	820.1	824.5	828.9	815.8	811.4	793.8	787.2	774.1	774.1	769.7	767.5
15°	875.0	868.4	872.8	868.4	857.4	839.9	828.9	831.1	815.8	811.4	804.8
17.5°	923.2	925.4	918.8	914.4	894.7	881.5	883.7	881.5	861.8	855.2	844.3
20°	980.2	978.0	978.0	964.9	947.3	929.8	923.2	921.0	925.4	912.2	885.9
22.5°	1039.4	1030.7	1030.7	1019.7	995.6	984.6	980.2	971.4	975.8	964.9	925.4
25°	1087.7	1087.7	1103.0	1081.1	1067.9	1046.0	1037.2	1039.4	1041.6	1019.7	973.6
27.5°	1151.3	1140.3	1155.7	1144.7	1138.1	1114.0	1103.0	1109.6	1105.2	1081.1	1017.5
30°	1232.4	1234.6	1225.8	1210.5	1201.7	1184.2	1177.6	1171.0	1177.6	1146.9	1065.7
32.5°	1333.3	1339.9	1317.9	1300.4	1285.0	1267.5	1254.3	1247.8	1254.3	1208.3	1103.0
35°	1449.5	1456.1	1438.5	1418.8	1401.3	1357.4	1346.4	1335.5	1311.3	1236.8	1138.1
37.5°	1556.9	1548.2	1543.8	1543.8	1510.9	1447.3	1440.7	1434.1	1388.1	1293.8	1186.4
40°	1629.3	1640.3	1635.9	1631.5	1627.1	1567.9	1554.8	1543.8	1467.0	1379.3	1254.3
42.5°	1710.5	1703.9	1721.4	1728.0	1712.6	1695.1	1642.5	1605.2	1537.2	1467.0	1355.2
45°	1806.9	1802.6	1809.1	1833.3	1811.3	1817.9	1730.2	1703.9	1618.4	1576.7	1482.4
47.5°	1892.5	1903.4	1936.3	1942.9	1925.4	1956.1	1833.3	1791.6	1736.8	1703.9	1614.0
50°	1929.7	1942.9	2017.5	2063.5	2065.7	2113.9	1936.3	1918.8	1844.2	1857.4	1778.4
52.5°	1899.0	1940.7	2030.6	2151.2	2225.8	2274.0	2072.3	2063.5	1995.5	2037.2	1958.2
55°	1927.5	1967.0	2026.2	2195.1	2383.7	2394.6	2260.9	2228.0	2160.0	2217.0	2144.6
57.5°	1940.7	1918.8	2030.6	2243.3	2499.9	2528.4	2440.7	2416.6	2363.9	2418.8	2377.1
60°	1837.6	1864.0	1969.2	2230.2	2506.5	2670.9	2642.4	2607.3	2559.1	2609.5	2585.4
62.5°	1721.4	1739.0	1853.0	2151.2	2543.7	2774.0	2837.6	2811.3	2743.3	2787.2	2828.8
65°	1574.5	1576.7	1703.9	2010.9	2471.4	2833.2	3008.6	3006.4	2958.2	2947.2	3013.0
67.5°	1394.7	1412.2	1513.1	1861.8	2372.7	2899.0	3177.5	3210.4	3113.9	3028.4	3052.5
70°	1070.1	1087.7	1184.2	1526.2	2171.0	2879.3	3385.8	3403.4	3214.8	2997.7	2936.3
72.5°	557.0	561.4	660.1	921.0	1539.4	2556.9	3462.6	3508.6	3241.1	2907.8	2618.3
75°	184.2	184.2	225.9	350.9	725.8	1635.9	3135.8	3219.2	3111.7	2684.1	2142.5
77.5°	109.6	111.8	133.8	175.4	289.5	653.5	2210.4	2357.4	2545.9	2282.8	1565.7
80°	78.9	81.1	100.9	120.6	173.2	210.5	1109.6	1313.5	1563.5	1469.2	835.5
82.5°	59.2	59.2	78.9	89.9	118.4	125.0	309.2	423.2	675.4	526.3	230.3
85°	61.4	61.4	61.4	63.6	81.1	72.4	129.4	138.2	197.4	173.2	63.6
87.5°	21.9	24.1	61.4	41.7	41.7	30.7	50.4	54.8	70.2	72.4	24.1
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: P675027  
 CATALOG NUMBER: CCW-SA-1F-830-U-T3

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	710.5	710.5	710.5	710.5	710.5	710.5	710.5	710.5	710.5	710.5	710.5
2.5°	712.7	712.7	714.9	714.9	719.3	723.7	730.2	725.8	725.8	728.0	725.8
5°	710.5	712.7	719.3	730.2	734.6	736.8	750.0	750.0	750.0	754.4	754.4
7.5°	719.3	723.7	734.6	745.6	747.8	754.4	771.9	776.3	787.2	791.6	793.8
10°	741.2	747.8	756.5	769.7	778.5	787.2	800.4	815.8	813.6	826.7	828.9
12.5°	774.1	771.9	787.2	800.4	809.2	822.3	826.7	826.7	826.7	826.7	831.1
15°	800.4	804.8	817.9	826.7	837.7	835.5	826.7	817.9	820.1	817.9	817.9
17.5°	839.9	839.9	850.8	853.0	857.4	835.5	822.3	822.3	828.9	828.9	824.5
20°	879.3	877.2	881.5	879.3	850.8	824.5	822.3	824.5	826.7	824.5	822.3
22.5°	916.6	912.2	905.7	896.9	846.5	822.3	817.9	807.0	796.0	796.0	789.4
25°	949.5	945.1	927.6	901.3	844.3	809.2	787.2	760.9	747.8	741.2	750.0
27.5°	980.2	971.4	947.3	901.3	824.5	774.1	732.4	699.5	688.6	679.8	688.6
30°	1021.9	1006.5	973.6	894.7	793.8	719.3	662.3	622.8	611.8	598.7	603.0
32.5°	1059.2	1024.1	995.6	875.0	754.4	657.9	592.1	552.6	532.9	521.9	530.7
35°	1098.6	1063.6	1004.3	844.3	693.0	583.3	517.5	480.2	464.9	449.5	449.5
37.5°	1138.1	1118.4	1017.5	787.2	618.4	513.1	453.9	425.4	399.1	370.6	370.6
40°	1221.4	1195.1	1032.8	721.5	543.8	445.2	403.5	366.2	339.9	300.4	298.2
42.5°	1309.2	1252.1	1032.8	642.5	478.0	396.9	357.4	318.0	269.7	245.6	247.8
45°	1421.0	1355.2	1004.3	572.3	412.3	357.4	313.6	263.1	241.2	225.9	225.9
47.5°	1561.3	1458.3	969.3	495.6	359.6	322.4	267.5	236.8	221.5	208.3	206.1
50°	1728.0	1552.6	925.4	429.8	315.8	289.5	243.4	219.3	206.1	197.4	197.4
52.5°	1903.4	1690.7	894.7	370.6	280.7	245.6	225.9	210.5	199.6	193.0	190.8
55°	2081.1	1828.9	872.8	307.0	247.8	225.9	221.5	208.3	203.9	197.4	193.0
57.5°	2280.6	1942.9	868.4	263.1	221.5	217.1	225.9	214.9	208.3	201.7	195.2
60°	2495.5	2096.4	828.9	228.1	208.3	212.7	219.3	208.3	203.9	197.4	193.0
62.5°	2708.2	2210.4	721.5	201.7	195.2	199.6	208.3	199.6	193.0	195.2	197.4
65°	2795.9	2219.2	559.2	182.0	179.8	182.0	195.2	193.0	186.4	199.6	199.6
67.5°	2708.2	2140.3	394.7	164.5	164.5	175.4	197.4	201.7	195.2	212.7	210.5
70°	2508.7	1945.1	267.5	153.5	157.9	186.4	203.9	199.6	190.8	212.7	208.3
72.5°	2129.3	1556.9	195.2	142.5	149.1	177.6	201.7	197.4	190.8	199.6	190.8
75°	1598.6	1107.4	153.5	129.4	131.6	160.1	208.3	197.4	179.8	175.4	168.9
77.5°	1067.9	684.2	118.4	114.0	114.0	140.3	199.6	184.2	162.3	155.7	153.5
80°	508.7	274.1	94.3	96.5	98.7	120.6	182.0	164.5	146.9	138.2	138.2
82.5°	162.3	103.1	78.9	78.9	78.9	98.7	151.3	138.2	127.2	120.6	109.6
85°	57.0	57.0	68.0	70.2	63.6	72.4	125.0	118.4	105.3	87.7	85.5
87.5°	21.9	32.9	46.1	54.8	39.5	50.4	89.9	83.3	76.8	57.0	54.8
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)