

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: P676545

Luminaire Tested: **CCW-SA-1F-730-U-T4FT-HSS**

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P676545  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-1F-730-U-T4FT-HSS  
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @1200mA w/  
T4FT distribution lens and House Side Shield  
Light Source: (16) 3000K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

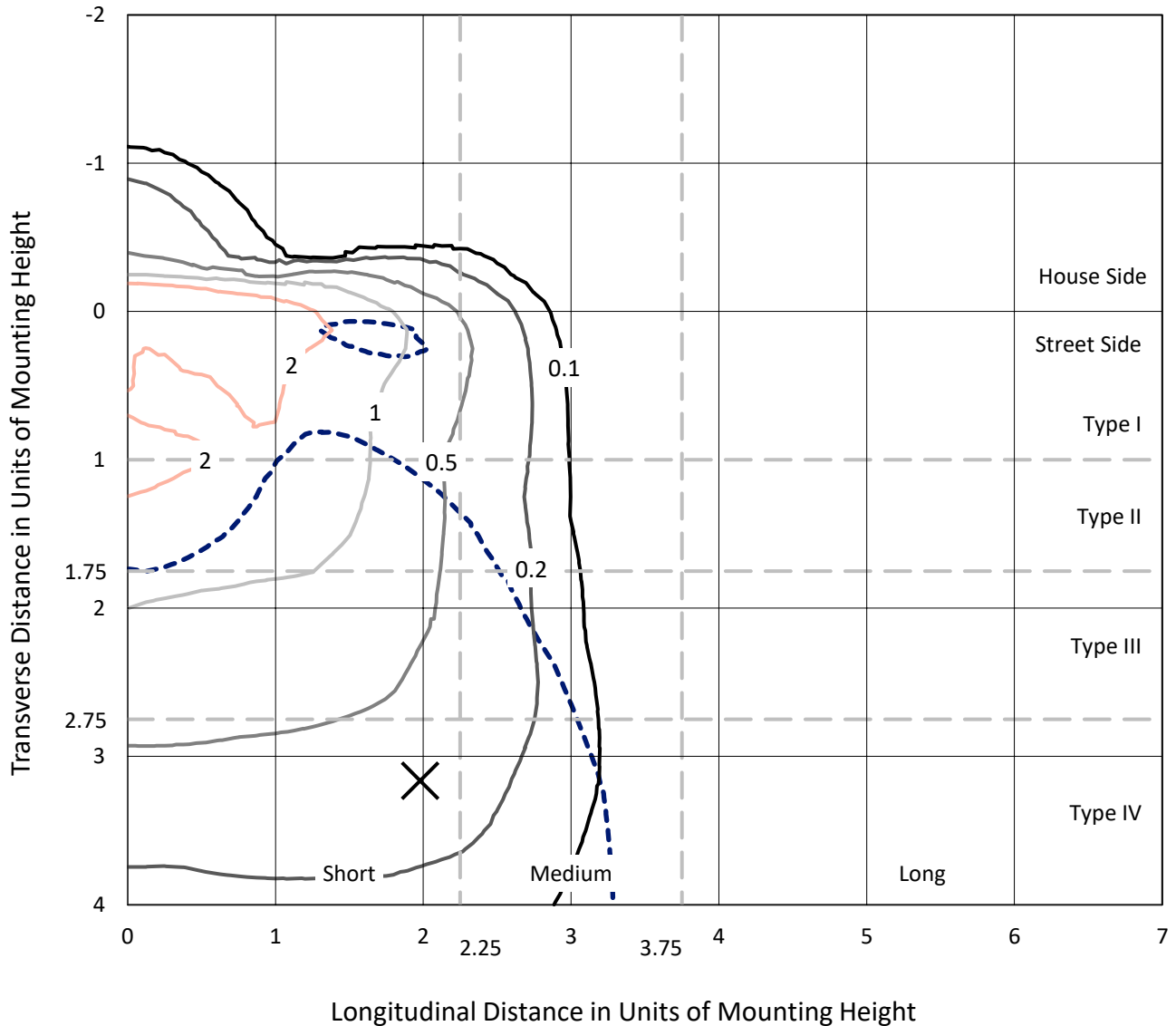
Lumens per Lamp: N/A  
Luminaire Lumens: 4902.4 lumens  
Efficiency: N/A  
Efficacy: 73.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2

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

REPORT NUMBER: P676545  
 CATALOG NUMBER: CCW-SA-1F-730-U-T4FT-HSS

### Iso-Footcandle Lines of Horizontal Illumination

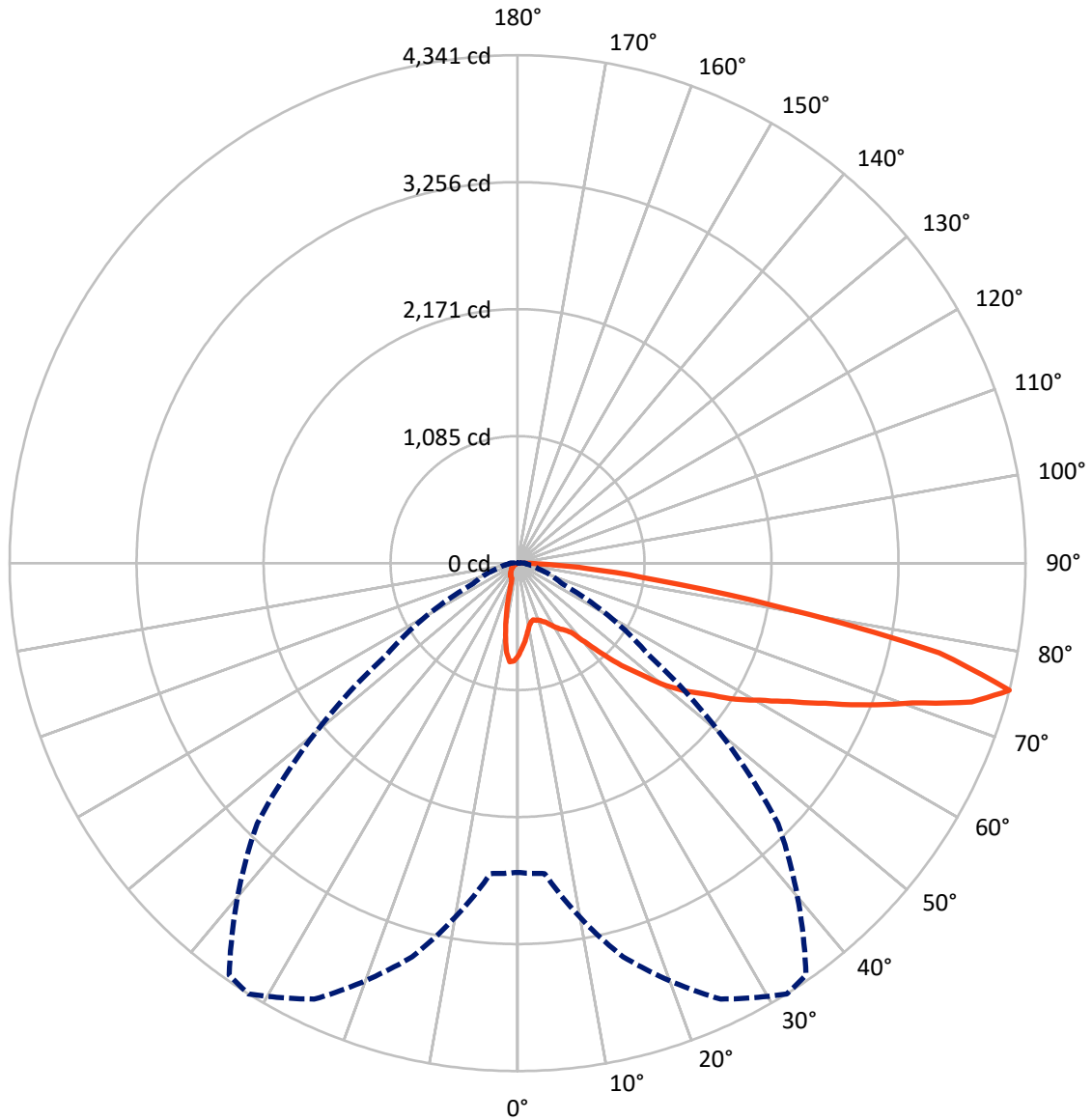
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 3.5 fc  
 Type IV - Short - N/A

REPORT NUMBER: P676545  
CATALOG NUMBER: CCW-SA-1F-730-U-T4FT-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 32-Deg Lateral      - - - Horizontal Cone Through 75-Deg Vertical

REPORT NUMBER: P676545  
 CATALOG NUMBER: CCW-SA-1F-730-U-T4FT-HSS

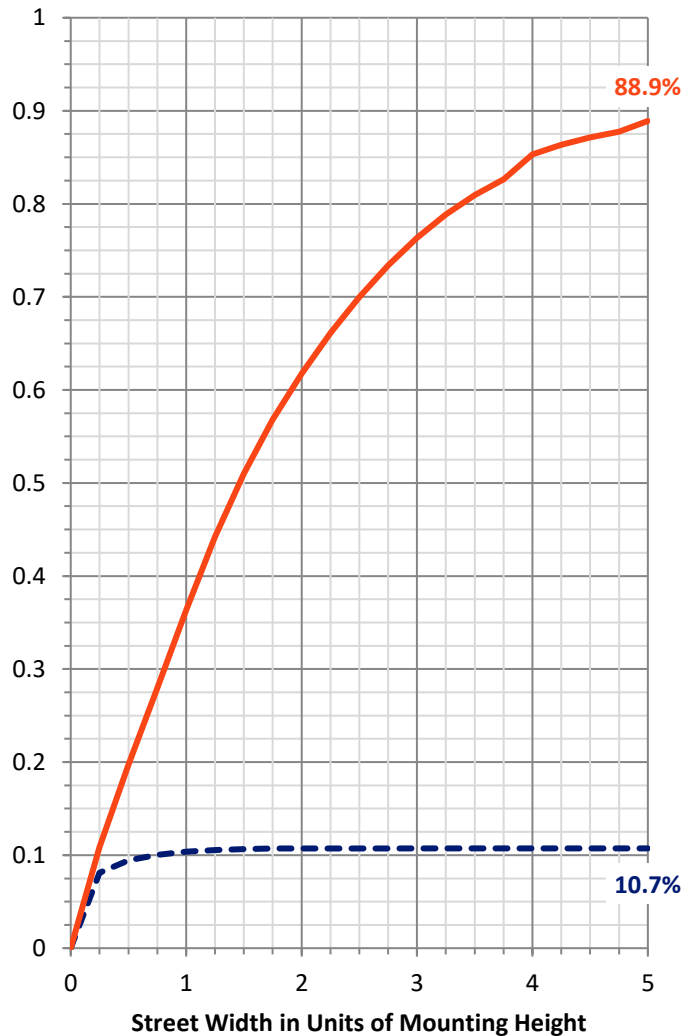
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	529.6	0.0	529.6
	% Fixture	10.8	0.0	10.8
<b>Street Side</b>	Lumens	4372.8	0.0	4372.8
	% Fixture	89.2	0.0	89.2
<b>Total</b>	Lumens	4902.4	0.0	4902.4
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	69.6	1.4
10°-20°	157.9	3.2
20°-30°	236.5	4.8
30°-40°	363.0	7.4
40°-50°	634.8	12.9
50°-60°	992.2	20.2
60°-70°	1282.8	26.2
70°-80°	1044.8	21.3
80°-90°	120.9	2.5
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°	4902.4	100.0
0°-180°	4902.4	100.0



--- HS    — SS

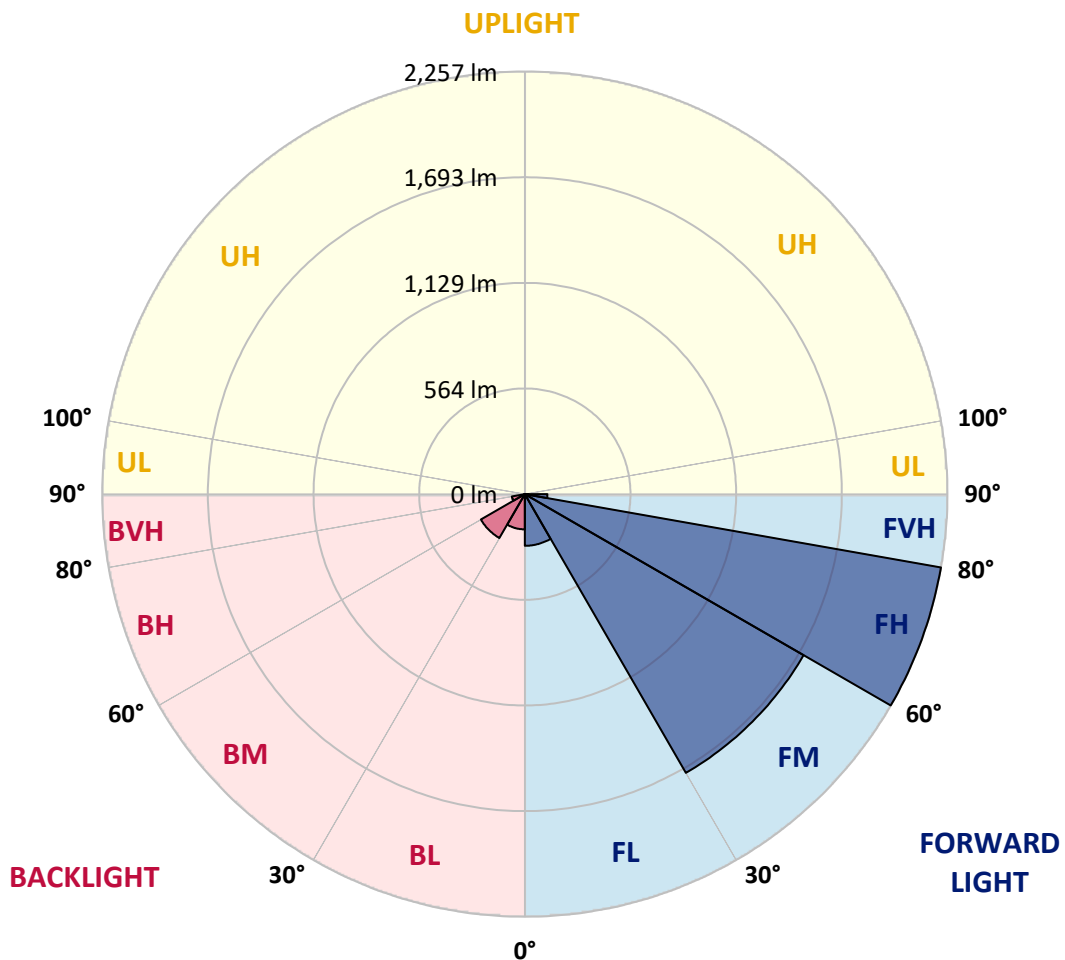
REPORT NUMBER: P676545  
 CATALOG NUMBER: CCW-SA-1F-730-U-T4FT-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	275.8	5.6			
FM (30°-60°)	1719.0	35.1			
FH (60°-80°)	2257.1	46.0			G2/5000
FVH (80°-90°)	120.8	2.5			G2/225
BL (0°-30°)	188.1	3.8	B1/500		
BM (30°-60°)	270.9	5.5	B1/1000		
BH (60°-80°)	70.4	1.4	B0/110		G0/110
BVH (80°-90°)	0.1	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 IV Short





REPORT NUMBER: P676545

CATALOG NUMBER: CCW-SA-1F-730-U-T4FT-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	32°	35°	45°	55°	65°	75°	85°
0°	791.6	791.6	791.6	791.6	791.6	791.6	791.6	791.6	791.6	791.6	791.6
2.5°	709.9	720.0	718.7	725.0	726.2	730.0	738.8	738.8	763.9	781.5	792.8
5°	645.8	639.5	642.1	649.6	668.4	667.2	688.6	699.9	730.0	755.1	781.5
7.5°	566.7	565.4	570.4	588.0	601.9	613.2	635.8	664.7	704.9	742.6	789.1
10°	516.4	513.9	524.0	529.0	545.3	552.9	588.0	633.3	681.0	735.0	789.1
12.5°	505.1	496.3	501.3	500.1	515.2	518.9	552.9	608.1	665.9	732.5	799.1
15°	511.4	505.1	500.1	500.1	503.8	506.4	542.8	591.8	657.1	736.3	821.7
17.5°	531.5	527.7	512.6	497.6	513.9	513.9	536.5	588.0	658.4	747.6	849.4
20°	555.4	551.6	525.2	507.6	518.9	531.5	555.4	596.8	662.2	756.4	892.1
22.5°	581.8	581.8	545.3	525.2	540.3	541.5	584.3	624.5	677.2	779.0	919.7
25°	614.4	611.9	576.7	554.1	559.1	573.0	611.9	654.6	704.9	810.4	971.3
27.5°	657.1	653.4	611.9	589.3	595.6	610.6	654.6	697.3	730.0	823.0	1015.2
30°	692.3	688.6	654.6	620.7	634.5	648.3	699.9	737.6	761.4	846.9	1065.5
32.5°	699.9	693.6	671.0	655.9	671.0	697.3	737.6	776.5	812.9	907.2	1161.0
35°	786.6	763.9	704.9	681.0	703.6	712.4	779.0	848.1	883.3	954.9	1267.8
37.5°	952.4	931.1	853.2	786.6	755.1	765.2	851.9	937.3	971.3	1044.1	1384.6
40°	1156.0	1120.8	1037.9	948.6	884.6	872.0	928.5	1054.2	1086.9	1156.0	1537.9
42.5°	1388.4	1354.5	1226.3	1120.8	1055.4	1039.1	1047.9	1189.9	1217.5	1259.0	1638.5
45°	1555.5	1537.9	1393.4	1299.2	1247.7	1230.1	1208.7	1338.2	1373.3	1387.2	1784.2
47.5°	1652.3	1639.7	1559.3	1495.2	1426.1	1407.3	1421.1	1544.2	1520.3	1531.7	1923.7
50°	1781.7	1749.0	1639.7	1659.8	1646.0	1641.0	1664.8	1718.9	1683.7	1651.0	2075.7
52.5°	1886.0	1828.2	1751.5	1800.5	1821.9	1840.7	1924.9	1965.1	1808.1	1757.8	2173.7
55°	1950.1	1894.8	1914.9	1960.1	1982.7	2069.4	2168.7	2138.5	1889.7	1843.3	2304.4
57.5°	2007.9	2011.6	2065.7	2079.5	2195.1	2210.2	2401.1	2303.1	1947.5	1921.2	2355.9
60°	2147.3	2133.5	2177.5	2266.7	2377.3	2461.4	2643.6	2413.7	1976.4	1961.4	2342.1
62.5°	2398.6	2313.2	2328.3	2441.3	2603.4	2695.2	2783.1	2464.0	1968.9	1967.6	2300.6
65°	2717.8	2619.8	2574.5	2680.1	2889.9	3019.3	2940.2	2520.5	1918.6	1953.8	2146.1
67.5°	2982.9	2984.1	2900.0	2959.0	3232.9	3260.6	3088.4	2509.2	1834.5	1844.5	1769.1
70°	3288.2	3329.7	3255.5	3440.2	3577.2	3594.8	3258.1	2416.2	1653.5	1390.9	1016.5
72.5°	3366.1	3387.5	3618.7	3902.6	4057.2	4062.2	3425.2	2105.9	1088.1	614.4	315.4
75°	2643.6	2663.7	3483.0	4111.2	4341.1	4297.2	3146.2	1367.1	423.4	179.7	75.4
77.5°	1475.1	1481.4	2162.4	3323.4	3682.7	3505.6	2203.9	532.7	170.9	103.0	35.2
80°	403.3	473.7	801.6	1638.5	2249.1	2207.6	1049.2	173.4	110.6	80.4	16.3
82.5°	96.7	104.3	257.6	725.0	1188.6	1240.1	312.9	88.0	76.6	66.6	8.8
85°	35.2	39.0	79.2	353.1	610.6	560.4	94.2	44.0	56.5	51.5	3.8
87.5°	12.6	12.6	25.1	115.6	178.4	134.4	31.4	15.1	28.9	31.4	1.3
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: P676545  
 CATALOG NUMBER: CCW-SA-1F-730-U-T4FT-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	791.6	791.6	791.6	791.6	791.6	791.6	791.6	791.6	791.6	791.6	791.6
2.5°	794.1	794.1	811.7	826.8	831.8	838.1	831.8	845.6	844.4	838.1	840.6
5°	795.4	818.0	833.0	843.1	848.1	846.9	849.4	834.3	825.5	819.2	812.9
7.5°	801.6	823.0	850.6	848.1	834.3	805.4	782.8	742.6	703.6	702.4	696.1
10°	823.0	841.8	858.2	848.1	797.9	709.9	638.3	584.3	535.3	512.6	515.2
12.5°	838.1	873.3	865.7	814.2	709.9	594.3	488.8	409.6	365.6	324.2	324.2
15°	869.5	882.0	879.5	765.2	601.9	463.6	335.5	255.1	208.6	189.7	187.2
17.5°	899.6	913.5	870.7	691.1	495.1	311.6	203.5	158.3	152.0	149.5	150.8
20°	937.3	938.6	863.2	616.9	371.9	197.3	145.8	142.0	143.2	142.0	142.0
22.5°	977.5	986.3	836.8	512.6	247.5	143.2	135.7	137.0	137.0	137.0	140.7
25°	1030.3	1016.5	795.4	413.4	162.1	131.9	131.9	133.2	133.2	133.2	134.4
27.5°	1065.5	1046.6	742.6	297.8	126.9	124.4	126.9	126.9	129.4	129.4	129.4
30°	1138.4	1089.4	676.0	192.2	114.3	118.1	120.6	123.1	124.4	126.9	128.2
32.5°	1194.9	1127.1	593.1	128.2	104.3	106.8	113.1	118.1	123.1	121.9	121.9
35°	1297.9	1188.6	516.4	101.8	95.5	95.5	101.8	110.6	118.1	120.6	120.6
37.5°	1416.1	1238.9	409.6	93.0	88.0	88.0	91.7	101.8	111.8	116.9	114.3
40°	1514.1	1296.7	302.8	86.7	81.7	81.7	84.2	91.7	103.0	111.8	113.1
42.5°	1583.2	1339.4	204.8	80.4	76.6	75.4	79.2	82.9	91.7	104.3	106.8
45°	1646.0	1362.0	126.9	74.1	71.6	71.6	71.6	75.4	81.7	93.0	95.5
47.5°	1757.8	1387.2	91.7	69.1	65.3	66.6	67.8	69.1	74.1	76.6	77.9
50°	1852.1	1406.0	75.4	64.1	61.6	62.8	62.8	62.8	65.3	61.6	61.6
52.5°	1923.7	1387.2	64.1	59.1	56.5	57.8	56.5	56.5	54.0	49.0	49.0
55°	1976.4	1353.2	51.5	54.0	54.0	54.0	51.5	47.7	42.7	39.0	39.0
57.5°	1990.3	1295.4	40.2	45.2	49.0	49.0	44.0	39.0	32.7	28.9	27.6
60°	1968.9	1169.8	30.2	32.7	37.7	39.0	35.2	28.9	22.6	18.8	18.8
62.5°	1892.3	1070.5	23.9	21.4	27.6	28.9	25.1	18.8	12.6	8.8	7.5
65°	1746.5	917.2	17.6	15.1	18.8	20.1	16.3	8.8	3.8	1.3	0.0
67.5°	1401.0	691.1	11.3	10.1	12.6	12.6	7.5	2.5	0.0	0.0	0.0
70°	775.2	388.3	7.5	5.0	6.3	3.8	1.3	0.0	0.0	0.0	0.0
72.5°	223.7	110.6	3.8	2.5	1.3	0.0	0.0	0.0	0.0	0.0	0.0
75°	60.3	26.4	2.5	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	26.4	10.1	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	11.3	3.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	6.3	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.3	0.0	0.0	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)