

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: P673391

Luminaire Tested: **CCP-SA-2B-730-U-T4FT-HSS**

Issue Date: 04/16/2023



Test Information

Test Method: LM-79-08
Report Number: P673391
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/16/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCP-SA-2B-730-U-T4FT-HSS
Description: INVUE CLEAR CURVE POLE MOUNT Light Square Luminaire @450mA w/ T4FT distribution lens and House Side Shield
Light Source: (32) 3000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

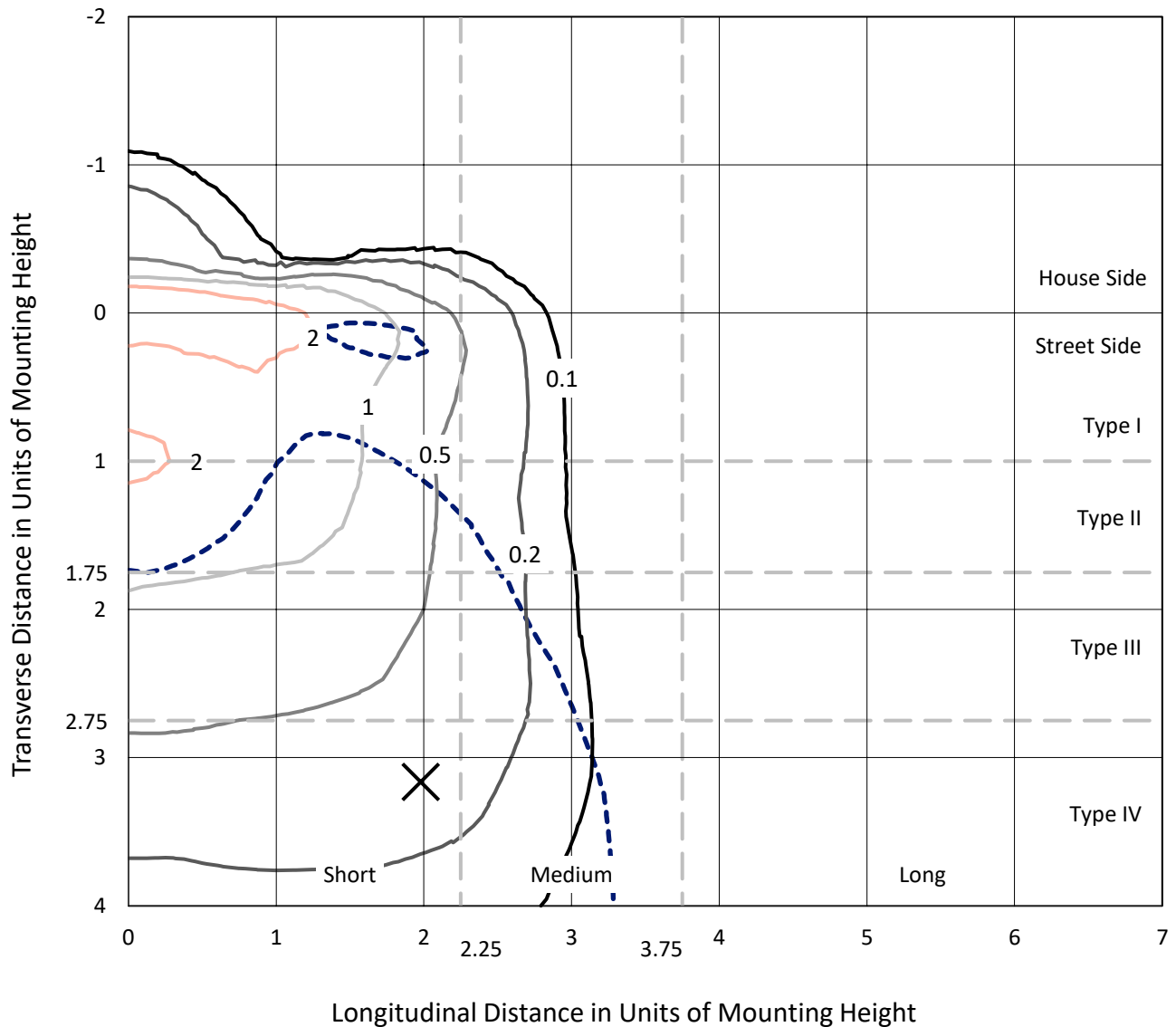
Lumens per Lamp: N/A
Luminaire Lumens: 4515.7 lumens
Efficiency: N/A
Efficacy: 98.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 46
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

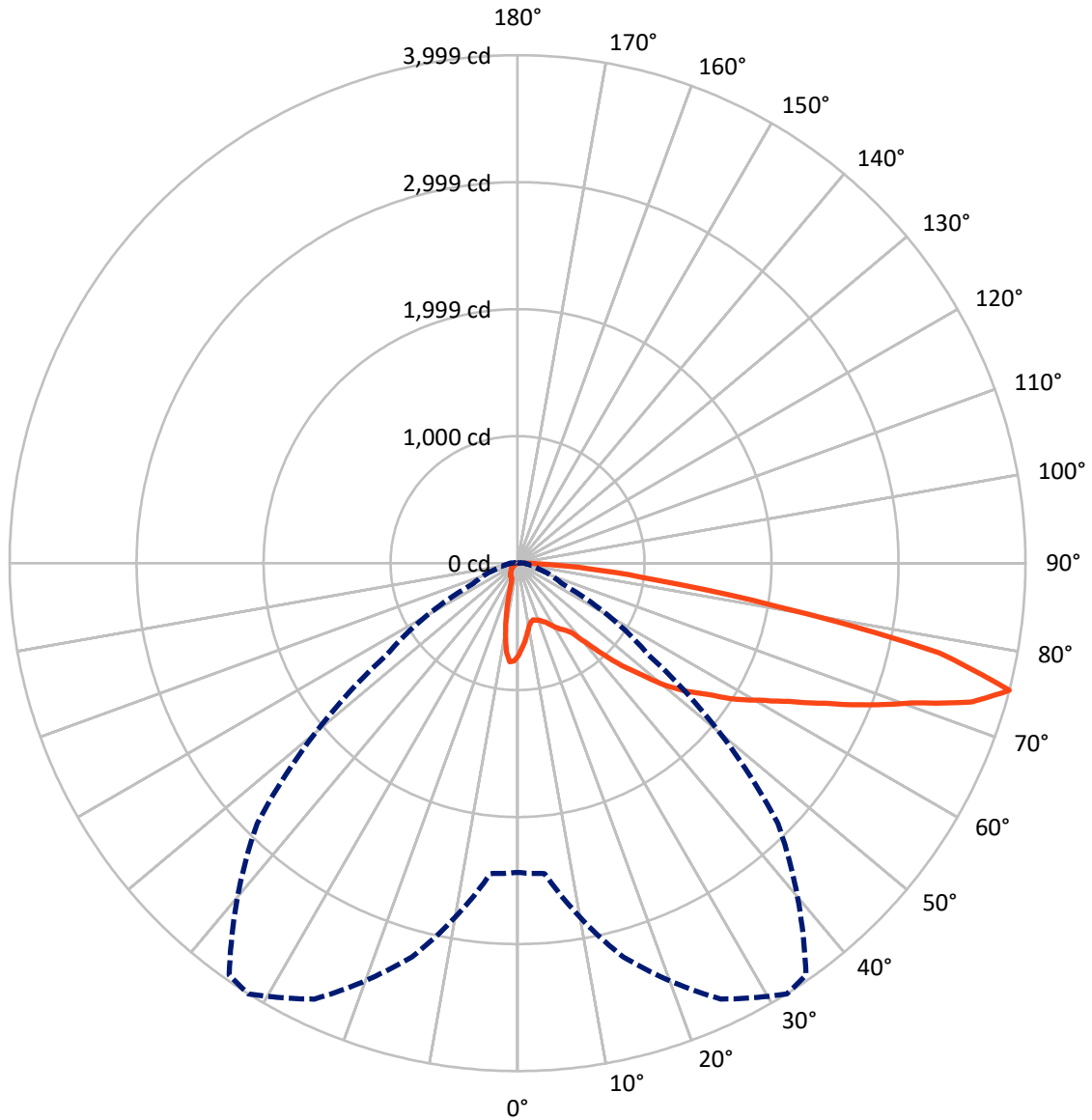
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 3.2 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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

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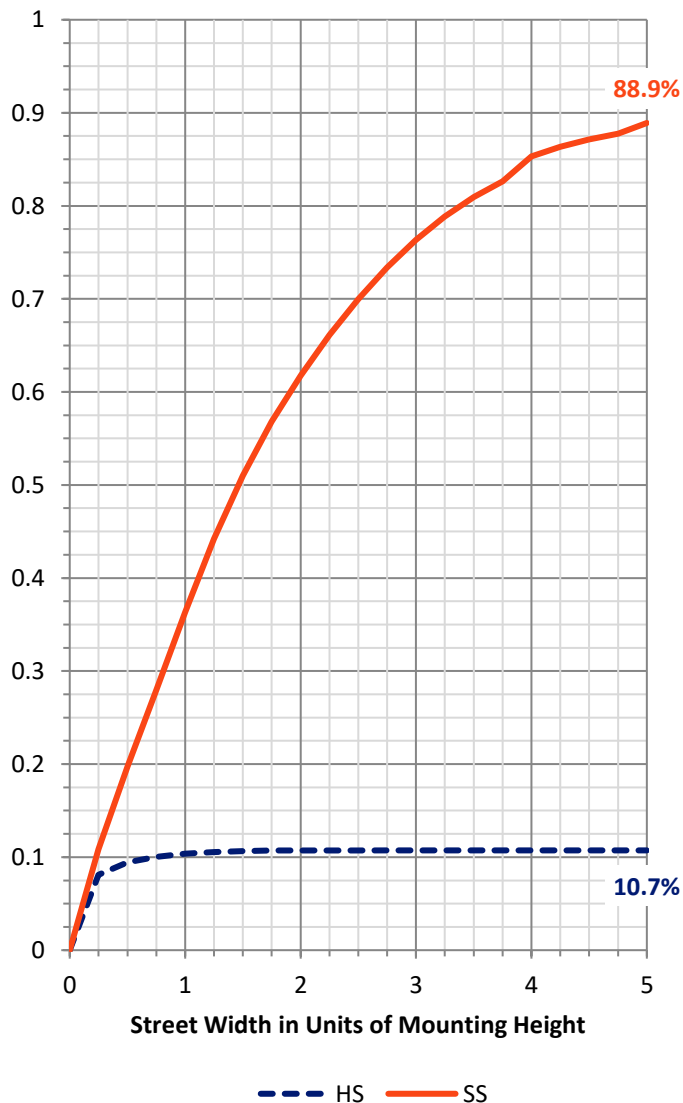
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	487.8	0.0	487.8
	% Fixture	10.8	0.0	10.8
Street Side	Lumens	4027.8	0.0	4027.8
	% Fixture	89.2	0.0	89.2
Total	Lumens	4515.7	0.0	4515.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	64.1	1.4
10°-20°	145.5	3.2
20°-30°	217.8	4.8
30°-40°	334.3	7.4
40°-50°	584.7	12.9
50°-60°	913.9	20.2
60°-70°	1181.6	26.2
70°-80°	962.4	21.3
80°-90°	111.4	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°	4515.7	100.0
0°-180°	4515.7	100.0



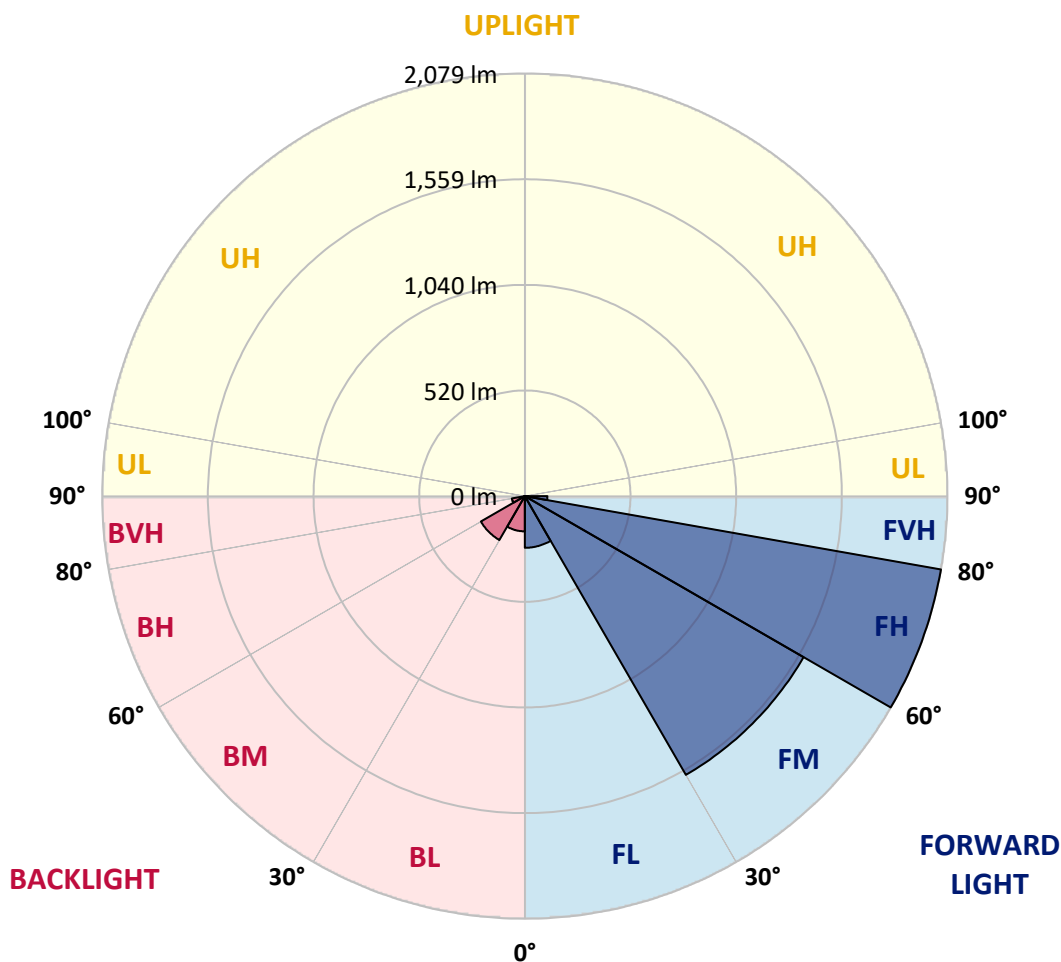
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	254.1	5.6			
FM (30°-60°)	1583.4	35.1			
FH (60°-80°)	2079.0	46.0			G2/5000
FVH (80°-90°)	111.3	2.5			G2/225
BL (0°-30°)	173.3	3.8	B1/500		
BM (30°-60°)	249.6	5.5	B1/1000		
BH (60°-80°)	64.9	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	32°	35°	45°	55°	65°	75°	85°
0°	729.1	729.1	729.1	729.1	729.1	729.1	729.1	729.1	729.1	729.1	729.1
2.5°	653.9	663.2	662.0	667.8	669.0	672.4	680.5	680.5	703.7	719.9	730.3
5°	594.9	589.1	591.4	598.4	615.7	614.6	634.2	644.6	672.4	695.6	719.9
7.5°	522.0	520.8	525.4	541.6	554.4	564.8	585.6	612.2	649.3	684.0	726.8
10°	475.7	473.4	482.6	487.2	502.3	509.2	541.6	583.3	627.3	677.1	726.8
12.5°	465.3	457.2	461.8	460.6	474.5	478.0	509.2	560.2	613.4	674.7	736.1
15°	471.0	465.3	460.6	460.6	464.1	466.4	500.0	545.1	605.3	678.2	756.9
17.5°	489.6	486.1	472.2	458.3	473.4	473.4	494.2	541.6	606.5	688.6	782.4
20°	511.6	508.1	483.8	467.6	478.0	489.6	511.6	549.7	609.9	696.7	821.7
22.5°	535.9	535.9	502.3	483.8	497.7	498.8	538.2	575.2	623.8	717.6	847.2
25°	565.9	563.6	531.2	510.4	515.0	527.8	563.6	603.0	649.3	746.5	894.6
27.5°	605.3	601.8	563.6	542.8	548.6	562.5	603.0	642.3	672.4	758.1	935.1
30°	637.7	634.2	603.0	571.7	584.5	597.2	644.6	679.4	701.4	780.1	981.4
32.5°	644.6	638.9	618.0	604.1	618.0	642.3	679.4	715.2	748.8	835.6	1069.4
35°	724.5	703.7	649.3	627.3	648.1	656.2	717.6	781.2	813.6	879.6	1167.8
37.5°	877.3	857.6	785.8	724.5	695.6	704.8	784.7	863.4	894.6	961.8	1275.4
40°	1064.8	1032.4	956.0	873.8	814.8	803.2	855.3	971.0	1001.1	1064.8	1416.6
42.5°	1278.9	1247.6	1129.6	1032.4	972.2	957.1	965.2	1096.0	1121.5	1159.7	1509.2
45°	1432.8	1416.6	1283.5	1196.7	1149.3	1133.1	1113.4	1232.6	1265.0	1277.7	1643.5
47.5°	1521.9	1510.4	1436.3	1377.3	1313.6	1296.2	1309.0	1422.4	1400.4	1410.8	1771.9
50°	1641.1	1611.0	1510.4	1528.9	1516.1	1511.5	1533.5	1583.3	1550.9	1520.8	1912.0
52.5°	1737.2	1684.0	1613.4	1658.5	1678.2	1695.5	1773.1	1810.1	1665.4	1619.1	2002.2
55°	1796.2	1745.3	1763.8	1805.5	1826.3	1906.2	1997.6	1969.8	1740.7	1697.8	2122.6
57.5°	1849.5	1852.9	1902.7	1915.4	2021.9	2035.8	2211.7	2121.4	1793.9	1769.6	2170.1
60°	1977.9	1965.2	2005.7	2087.9	2189.7	2267.3	2435.1	2223.3	1820.5	1806.6	2157.3
62.5°	2209.4	2130.7	2144.6	2248.8	2398.1	2482.5	2563.6	2269.6	1813.6	1812.4	2119.1
65°	2503.4	2413.1	2371.4	2468.7	2661.9	2781.1	2708.2	2321.7	1767.3	1799.7	1976.8
67.5°	2747.6	2748.7	2671.2	2725.6	2977.9	3003.4	2844.8	2311.2	1689.7	1699.0	1629.6
70°	3028.8	3067.0	2998.7	3168.9	3295.0	3311.2	3001.0	2225.6	1523.1	1281.2	936.3
72.5°	3100.6	3120.2	3333.2	3594.8	3737.1	3741.7	3155.0	1939.7	1002.3	565.9	290.5
75°	2435.1	2453.6	3208.2	3786.9	3998.7	3958.2	2898.0	1259.2	390.0	165.5	69.4
77.5°	1358.7	1364.5	1991.8	3061.2	3392.2	3229.0	2030.0	490.7	157.4	94.9	32.4
80°	371.5	436.3	738.4	1509.2	2071.7	2033.5	966.4	159.7	101.8	74.1	15.0
82.5°	89.1	96.1	237.3	667.8	1094.9	1142.3	288.2	81.0	70.6	61.3	8.1
85°	32.4	35.9	72.9	325.2	562.5	516.2	86.8	40.5	52.1	47.5	3.5
87.5°	11.6	11.6	23.1	106.5	164.3	123.8	28.9	13.9	26.6	28.9	1.2
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°	729.1	729.1	729.1	729.1	729.1	729.1	729.1	729.1	729.1	729.1	729.1
2.5°	731.5	731.5	747.7	761.5	766.2	772.0	766.2	778.9	777.7	772.0	774.3
5°	732.6	753.4	767.3	776.6	781.2	780.1	782.4	768.5	760.4	754.6	748.8
7.5°	738.4	758.1	783.5	781.2	768.5	741.9	721.0	684.0	648.1	647.0	641.2
10°	758.1	775.4	790.5	781.2	734.9	653.9	587.9	538.2	493.0	472.2	474.5
12.5°	772.0	804.4	797.4	750.0	653.9	547.4	450.2	377.3	336.8	298.6	298.6
15°	800.9	812.5	810.2	704.8	554.4	427.1	309.0	234.9	192.1	174.8	172.4
17.5°	828.7	841.4	802.1	636.5	456.0	287.0	187.5	145.8	140.0	137.7	138.9
20°	863.4	864.5	795.1	568.3	342.6	181.7	134.3	130.8	131.9	130.8	130.8
22.5°	900.4	908.5	770.8	472.2	228.0	131.9	125.0	126.2	126.2	126.2	129.6
25°	949.0	936.3	732.6	380.8	149.3	121.5	121.5	122.7	122.7	122.7	123.8
27.5°	981.4	964.1	684.0	274.3	116.9	114.6	116.9	116.9	119.2	119.2	119.2
30°	1048.6	1003.4	622.7	177.1	105.3	108.8	111.1	113.4	114.6	116.9	118.1
32.5°	1100.7	1038.2	546.3	118.1	96.1	98.4	104.2	108.8	113.4	112.3	112.3
35°	1195.6	1094.9	475.7	93.7	88.0	88.0	93.7	101.8	108.8	111.1	111.1
37.5°	1304.3	1141.2	377.3	85.6	81.0	81.0	84.5	93.7	103.0	107.6	105.3
40°	1394.6	1194.4	278.9	79.9	75.2	75.2	77.5	84.5	94.9	103.0	104.2
42.5°	1458.3	1233.7	188.6	74.1	70.6	69.4	72.9	76.4	84.5	96.1	98.4
45°	1516.1	1254.6	116.9	68.3	66.0	66.0	66.0	69.4	75.2	85.6	88.0
47.5°	1619.1	1277.7	84.5	63.7	60.2	61.3	62.5	63.7	68.3	70.6	71.8
50°	1705.9	1295.1	69.4	59.0	56.7	57.9	57.9	57.9	60.2	56.7	56.7
52.5°	1771.9	1277.7	59.0	54.4	52.1	53.2	52.1	52.1	49.8	45.1	45.1
55°	1820.5	1246.5	47.5	49.8	49.8	49.8	47.5	44.0	39.4	35.9	35.9
57.5°	1833.3	1193.2	37.0	41.7	45.1	45.1	40.5	35.9	30.1	26.6	25.5
60°	1813.6	1077.5	27.8	30.1	34.7	35.9	32.4	26.6	20.8	17.4	17.4
62.5°	1743.0	986.1	22.0	19.7	25.5	26.6	23.1	17.4	11.6	8.1	6.9
65°	1608.7	844.9	16.2	13.9	17.4	18.5	15.0	8.1	3.5	1.2	0.0
67.5°	1290.5	636.5	10.4	9.3	11.6	11.6	6.9	2.3	0.0	0.0	0.0
70°	714.1	357.6	6.9	4.6	5.8	3.5	1.2	0.0	0.0	0.0	0.0
72.5°	206.0	101.8	3.5	2.3	1.2	0.0	0.0	0.0	0.0	0.0	0.0
75°	55.6	24.3	2.3	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	24.3	9.3	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	10.4	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	5.8	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.2	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)