

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: P676623

Luminaire Tested: **CCW-SA-2A-835-U-T4FT-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P676623
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-2A-835-U-T4FT-HSS
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @350mA w/
T4FT distribution lens and House Side Shield
Light Source: (32) 3500K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

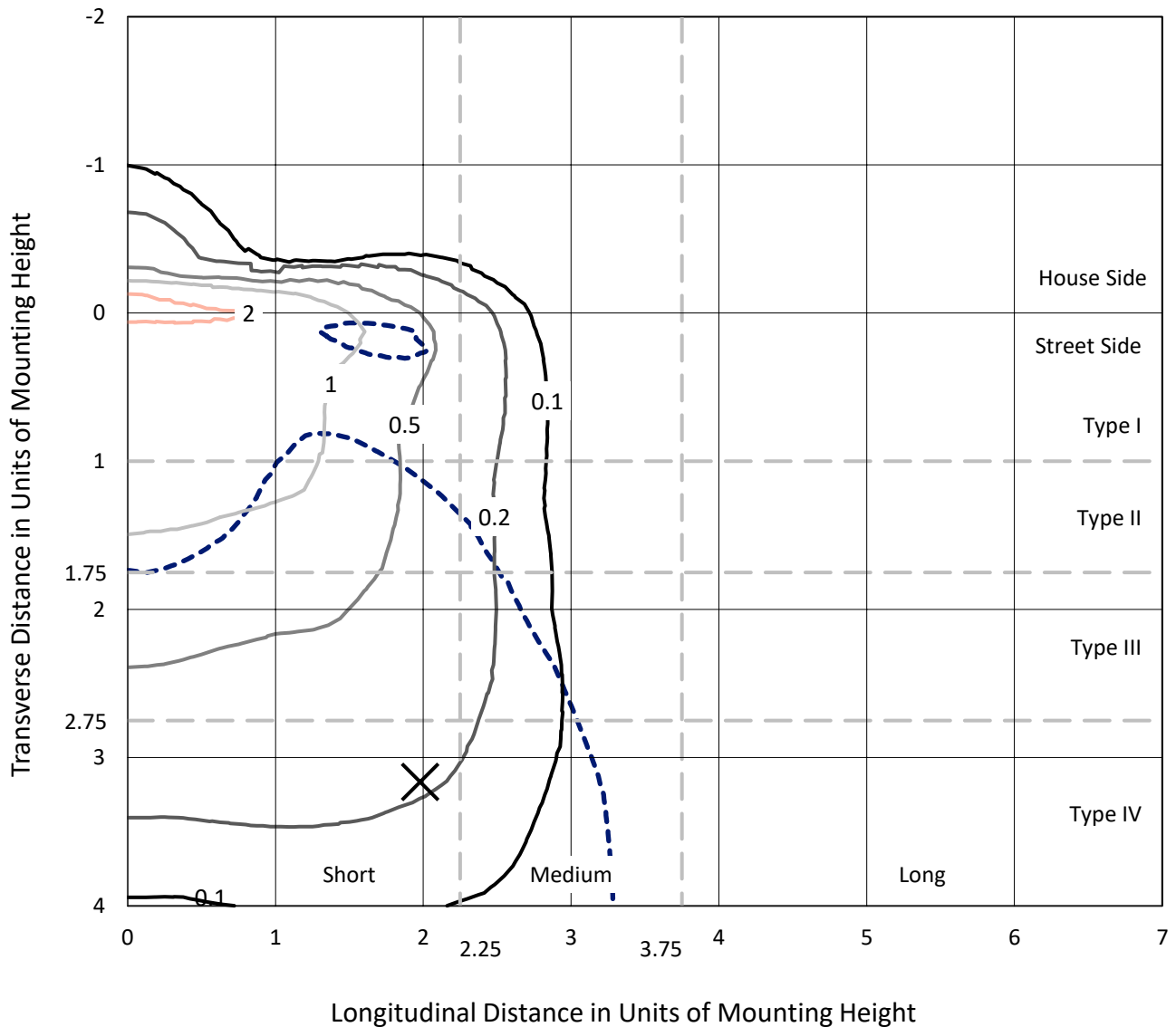
Lumens per Lamp: N/A
Luminaire Lumens: 3237.4 lumens
Efficiency: N/A
Efficacy: 89.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 36.2
Input Voltage (V): 120
Input Current (A_{in}): 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

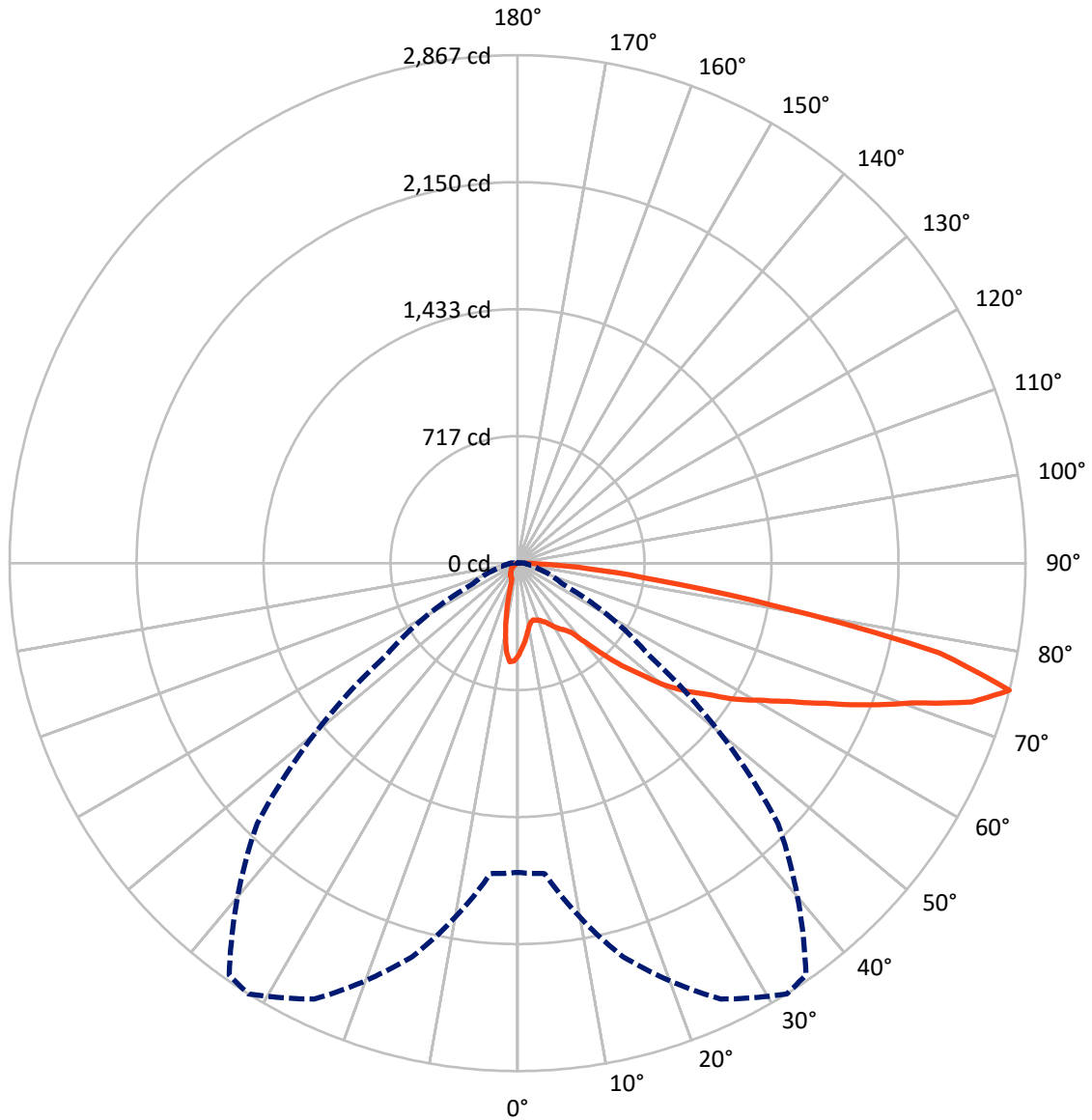
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 2.3 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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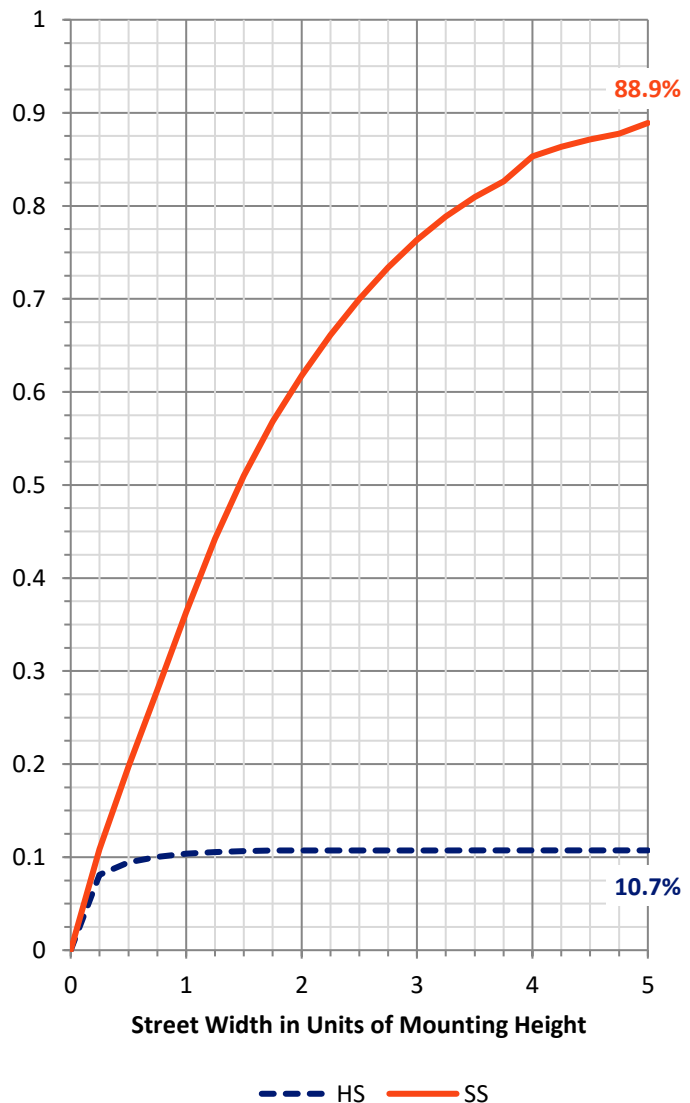
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	349.7	0.0	349.7
	% Fixture	10.8	0.0	10.8
Street Side	Lumens	2887.7	0.0	2887.7
	% Fixture	89.2	0.0	89.2
Total	Lumens	3237.4	0.0	3237.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	45.9	1.4
10°-20°	104.3	3.2
20°-30°	156.2	4.8
30°-40°	239.7	7.4
40°-50°	419.2	12.9
50°-60°	655.2	20.2
60°-70°	847.1	26.2
70°-80°	689.9	21.3
80°-90°	79.9	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°	3237.4	100.0
0°-180°	3237.4	100.0



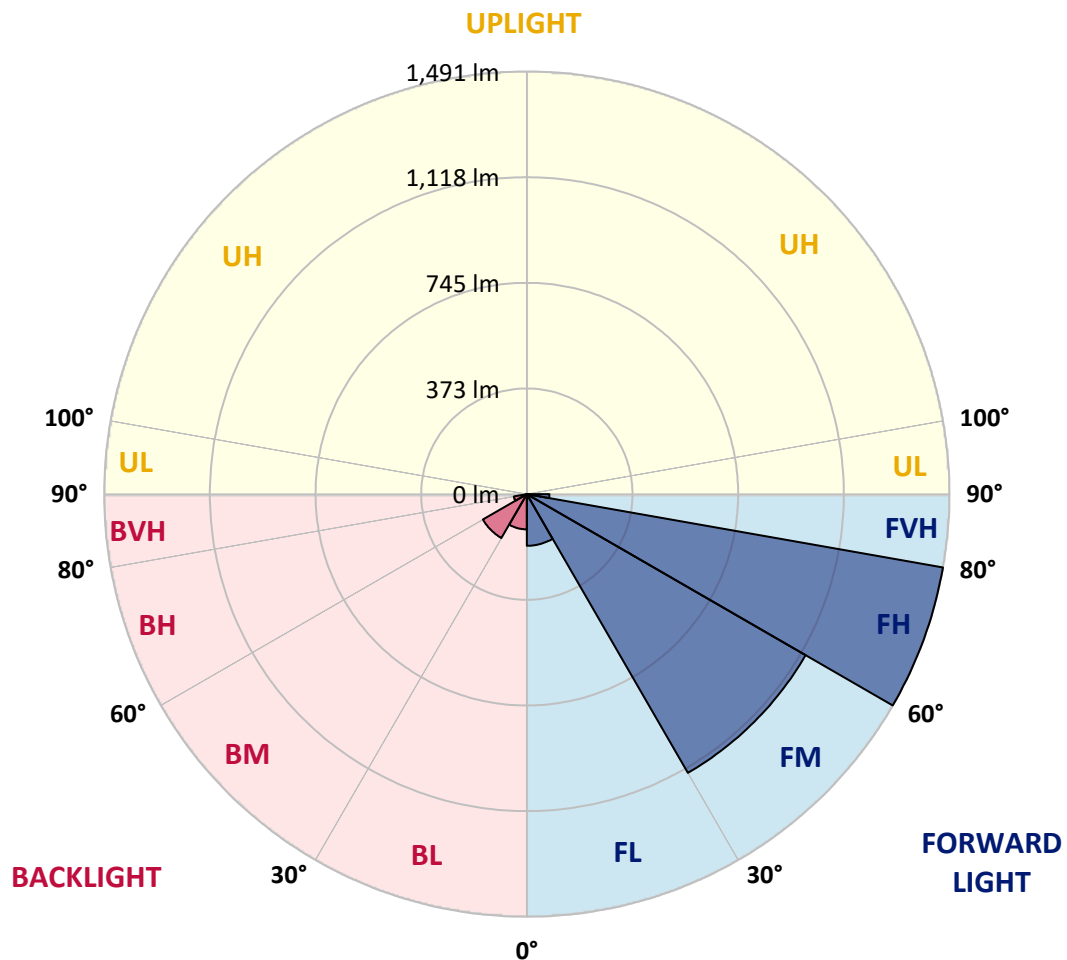
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	182.1	5.6			
FM (30°-60°)	1135.2	35.1			
FH (60°-80°)	1490.5	46.0			G1/1800
FVH (80°-90°)	79.8	2.5			G1/100
BL (0°-30°)	124.2	3.8	B1/500		
BM (30°-60°)	178.9	5.5	B0/220		
BH (60°-80°)	46.5	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-G1

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	32°	35°	45°	55°	65°	75°	85°
0°	522.7	522.7	522.7	522.7	522.7	522.7	522.7	522.7	522.7	522.7	522.7
2.5°	468.8	475.4	474.6	478.8	479.6	482.1	487.9	487.9	504.5	516.1	523.6
5°	426.5	422.3	424.0	429.0	441.4	440.6	454.7	462.2	482.1	498.7	516.1
7.5°	374.2	373.4	376.7	388.3	397.4	404.9	419.9	438.9	465.5	490.4	521.1
10°	341.0	339.4	346.0	349.3	360.1	365.1	388.3	418.2	449.7	485.4	521.1
12.5°	333.6	327.8	331.1	330.2	340.2	342.7	365.1	401.6	439.8	483.7	527.7
15°	337.7	333.6	330.2	330.2	332.7	334.4	358.5	390.8	434.0	486.2	542.7
17.5°	351.0	348.5	338.5	328.6	339.4	339.4	354.3	388.3	434.8	493.7	560.9
20°	366.7	364.3	346.8	335.2	342.7	351.0	366.7	394.1	437.3	499.5	589.1
22.5°	384.2	384.2	360.1	346.8	356.8	357.6	385.8	412.4	447.2	514.4	607.4
25°	405.7	404.1	380.9	365.9	369.2	378.4	404.1	432.3	465.5	535.2	641.4
27.5°	434.0	431.5	404.1	389.2	393.3	403.3	432.3	460.5	482.1	543.5	670.4
30°	457.2	454.7	432.3	409.9	419.0	428.1	462.2	487.1	502.8	559.2	703.6
32.5°	462.2	458.0	443.1	433.1	443.1	460.5	487.1	512.8	536.8	599.1	766.7
35°	519.4	504.5	465.5	449.7	464.7	470.5	514.4	560.1	583.3	630.6	837.2
37.5°	628.9	614.8	563.4	519.4	498.7	505.3	562.6	619.0	641.4	689.5	914.4
40°	763.4	740.1	685.4	626.5	584.1	575.8	613.2	696.2	717.7	763.4	1015.6
42.5°	916.9	894.5	809.8	740.1	697.0	686.2	692.0	785.8	804.0	831.4	1082.0
45°	1027.2	1015.6	920.2	858.0	823.9	812.3	798.2	883.7	906.9	916.0	1178.2
47.5°	1091.1	1082.8	1029.7	987.4	941.8	929.3	938.4	1019.8	1004.0	1011.5	1270.3
50°	1176.6	1155.0	1082.8	1096.1	1087.0	1083.6	1099.4	1135.1	1111.9	1090.3	1370.7
52.5°	1245.5	1207.3	1156.7	1189.0	1203.1	1215.6	1271.2	1297.7	1194.0	1160.8	1435.5
55°	1287.8	1251.3	1264.5	1294.4	1309.3	1366.6	1432.1	1412.2	1247.9	1217.2	1521.8
57.5°	1325.9	1328.4	1364.1	1373.2	1449.6	1459.5	1585.6	1520.9	1286.1	1268.7	1555.8
60°	1418.0	1408.9	1438.0	1496.9	1569.9	1625.5	1745.8	1593.9	1305.2	1295.2	1546.6
62.5°	1584.0	1527.6	1537.5	1612.2	1719.2	1779.8	1837.9	1627.1	1300.2	1299.4	1519.3
65°	1794.7	1730.0	1700.2	1769.9	1908.4	1993.9	1941.6	1664.5	1267.0	1290.3	1417.2
67.5°	1969.8	1970.6	1915.1	1954.1	2134.9	2153.2	2039.5	1657.0	1211.4	1218.1	1168.3
70°	2171.4	2198.8	2149.9	2271.8	2362.3	2373.9	2151.5	1595.6	1091.9	918.5	671.3
72.5°	2222.9	2237.0	2389.7	2577.2	2679.3	2682.6	2261.9	1390.7	718.6	405.7	208.3
75°	1745.8	1759.1	2300.1	2714.9	2866.8	2837.7	2077.7	902.8	279.6	118.7	49.8
77.5°	974.1	978.3	1428.0	2194.7	2432.0	2315.0	1455.4	351.8	112.8	68.0	23.2
80°	266.3	312.8	529.4	1082.0	1485.2	1457.9	692.8	114.5	73.0	53.1	10.8
82.5°	63.9	68.9	170.1	478.8	784.9	819.0	206.6	58.1	50.6	44.0	5.8
85°	23.2	25.7	52.3	233.2	403.3	370.1	62.2	29.0	37.3	34.0	2.5
87.5°	8.3	8.3	16.6	76.3	117.8	88.8	20.7	10.0	19.1	20.7	0.8
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°	522.7	522.7	522.7	522.7	522.7	522.7	522.7	522.7	522.7	522.7	522.7
2.5°	524.4	524.4	536.0	546.0	549.3	553.4	549.3	558.4	557.6	553.4	555.1
5°	525.2	540.2	550.1	556.8	560.1	559.2	560.9	551.0	545.1	541.0	536.8
7.5°	529.4	543.5	561.7	560.1	551.0	531.9	516.9	490.4	464.7	463.8	459.7
10°	543.5	555.9	566.7	560.1	526.9	468.8	421.5	385.8	353.5	338.5	340.2
12.5°	553.4	576.7	571.7	537.7	468.8	392.5	322.8	270.5	241.5	214.1	214.1
15°	574.2	582.5	580.8	505.3	397.4	306.2	221.5	168.4	137.7	125.3	123.6
17.5°	594.1	603.2	575.0	456.4	326.9	205.8	134.4	104.5	100.4	98.7	99.6
20°	619.0	619.8	570.0	407.4	245.6	130.3	96.3	93.8	94.6	93.8	93.8
22.5°	645.5	651.4	552.6	338.5	163.5	94.6	89.6	90.4	90.4	90.4	92.9
25°	680.4	671.3	525.2	273.0	107.0	87.1	87.1	88.0	88.0	88.0	88.8
27.5°	703.6	691.2	490.4	196.7	83.8	82.1	83.8	83.8	85.5	85.5	85.5
30°	751.8	719.4	446.4	127.0	75.5	78.0	79.7	81.3	82.1	83.8	84.6
32.5°	789.1	744.3	391.6	84.6	68.9	70.5	74.7	78.0	81.3	80.5	80.5
35°	857.1	784.9	341.0	67.2	63.1	63.1	67.2	73.0	78.0	79.7	79.7
37.5°	935.1	818.1	270.5	61.4	58.1	58.1	60.6	67.2	73.8	77.2	75.5
40°	999.8	856.3	200.0	57.3	53.9	53.9	55.6	60.6	68.0	73.8	74.7
42.5°	1045.5	884.5	135.2	53.1	50.6	49.8	52.3	54.8	60.6	68.9	70.5
45°	1087.0	899.4	83.8	49.0	47.3	47.3	47.3	49.8	53.9	61.4	63.1
47.5°	1160.8	916.0	60.6	45.6	43.1	44.0	44.8	45.6	49.0	50.6	51.4
50°	1223.0	928.5	49.8	42.3	40.7	41.5	41.5	41.5	43.1	40.7	40.7
52.5°	1270.3	916.0	42.3	39.0	37.3	38.2	37.3	37.3	35.7	32.4	32.4
55°	1305.2	893.6	34.0	35.7	35.7	35.7	34.0	31.5	28.2	25.7	25.7
57.5°	1314.3	855.5	26.6	29.9	32.4	32.4	29.0	25.7	21.6	19.1	18.3
60°	1300.2	772.5	19.9	21.6	24.9	25.7	23.2	19.1	14.9	12.4	12.4
62.5°	1249.6	706.9	15.8	14.1	18.3	19.1	16.6	12.4	8.3	5.8	5.0
65°	1153.3	605.7	11.6	10.0	12.4	13.3	10.8	5.8	2.5	0.8	0.0
67.5°	925.2	456.4	7.5	6.6	8.3	8.3	5.0	1.7	0.0	0.0	0.0
70°	512.0	256.4	5.0	3.3	4.1	2.5	0.8	0.0	0.0	0.0	0.0
72.5°	147.7	73.0	2.5	1.7	0.8	0.0	0.0	0.0	0.0	0.0	0.0
75°	39.8	17.4	1.7	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	17.4	6.6	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	7.5	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	4.1	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.8	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)