

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: P676788

Luminaire Tested: **CCW-SA-1F-850-U-T4W-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P676788
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1F-850-U-T4W-HSS
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @1200mA w/
T4W distribution lens and House Side Shield
Light Source: (16) 5000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

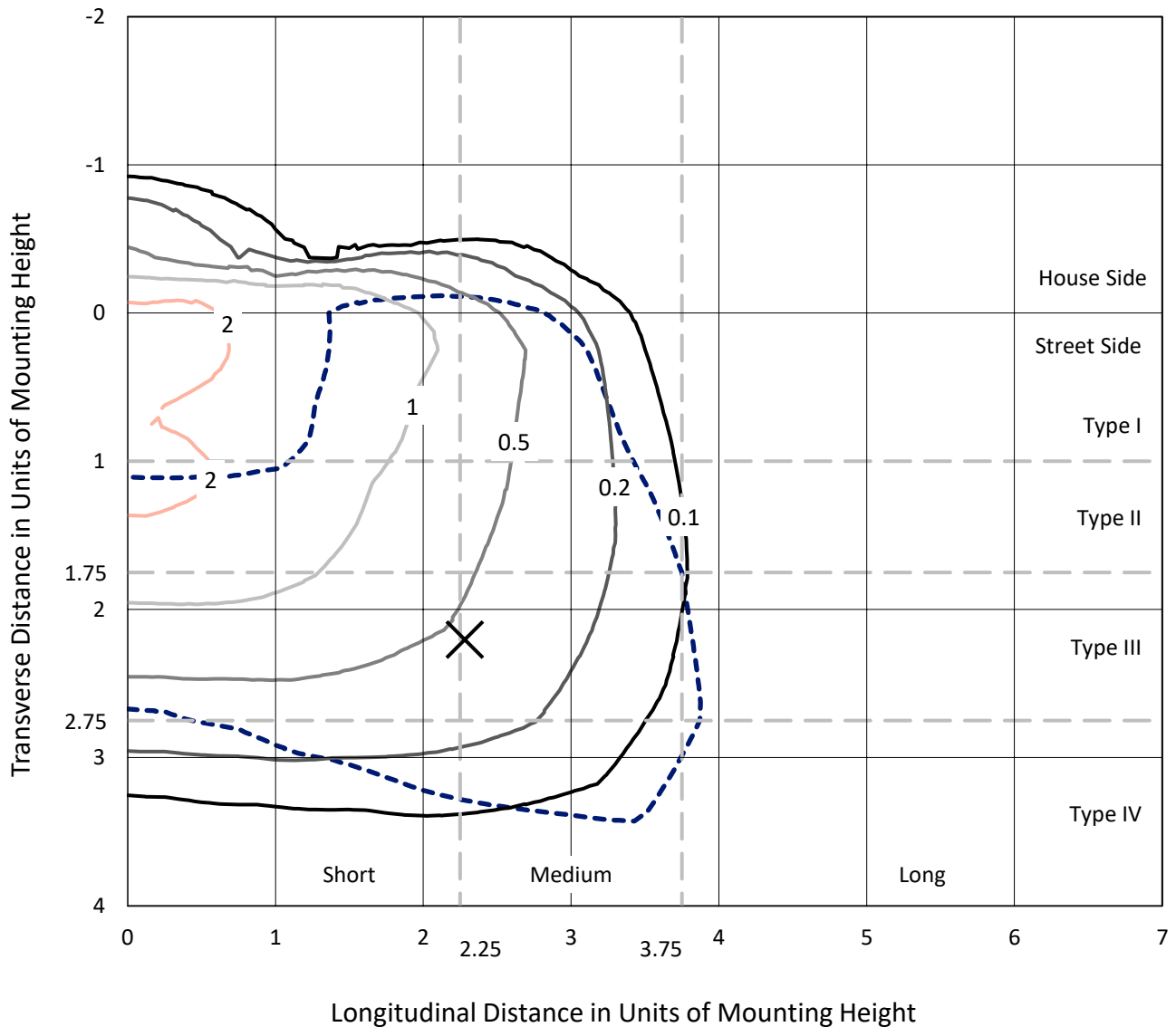
Lumens per Lamp: N/A
Luminaire Lumens: 4720.3 lumens
Efficiency: N/A
Efficacy: 70.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B1 - U0 - G2

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

REPORT NUMBER: P676788
 CATALOG NUMBER: CCW-SA-1F-850-U-T4W-HSS

Iso-Footcandle Lines of Horizontal Illumination

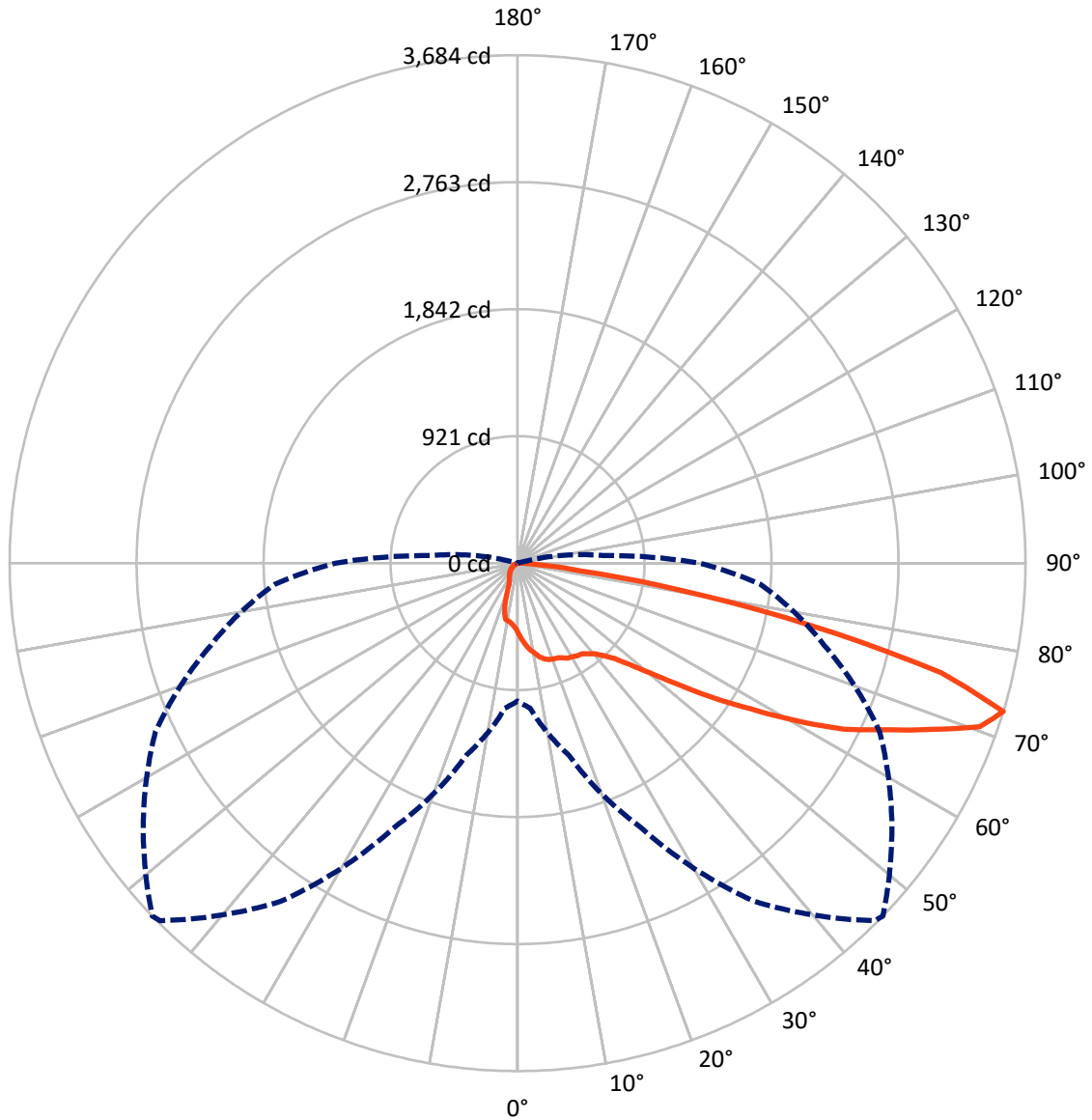
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 3.3 fc
 Type IV - Medium - N/A

REPORT NUMBER: P676788
CATALOG NUMBER: CCW-SA-1F-850-U-T4W-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

REPORT NUMBER: P676788

CATALOG NUMBER: CCW-SA-1F-850-U-T4W-HSS

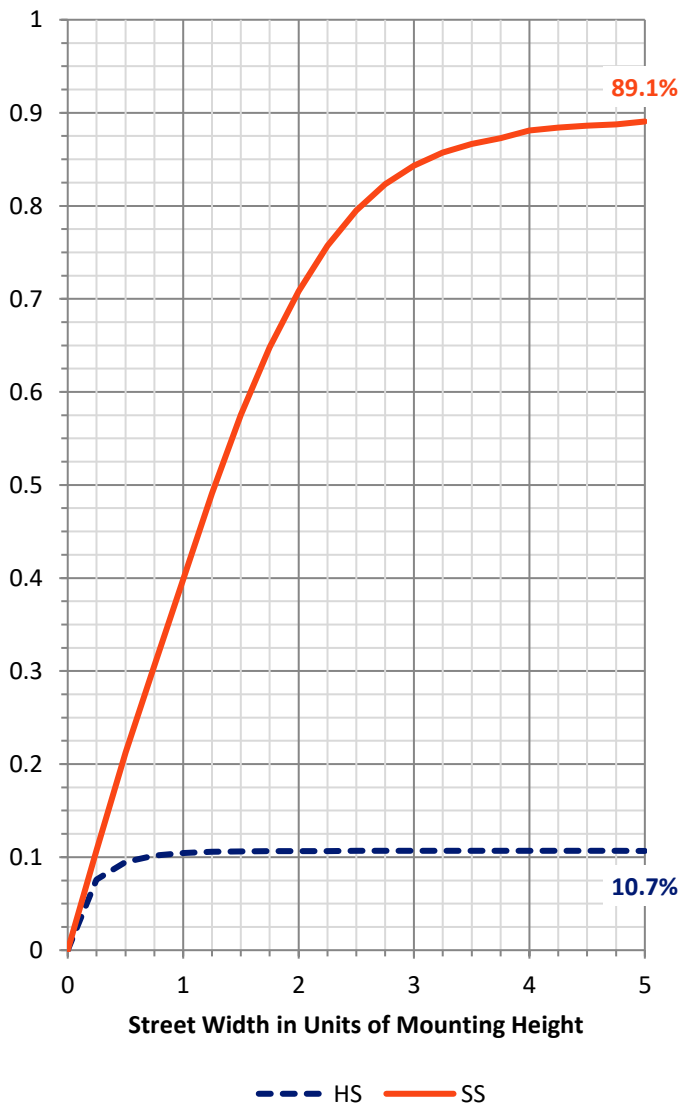
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	508.2	0.0	508.2
	% Fixture	10.8	0.0	10.8
Street Side	Lumens	4212.1	0.0	4212.1
	% Fixture	89.2	0.0	89.2
Total	Lumens	4720.3	0.0	4720.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	50.5	1.1
10°-20°	152.4	3.2
20°-30°	238.7	5.1
30°-40°	334.2	7.1
40°-50°	551.1	11.7
50°-60°	990.6	21.0
60°-70°	1435.7	30.4
70°-80°	896.0	19.0
80°-90°	71.0	1.5
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°	4720.3	100.0
0°-180°	4720.3	100.0



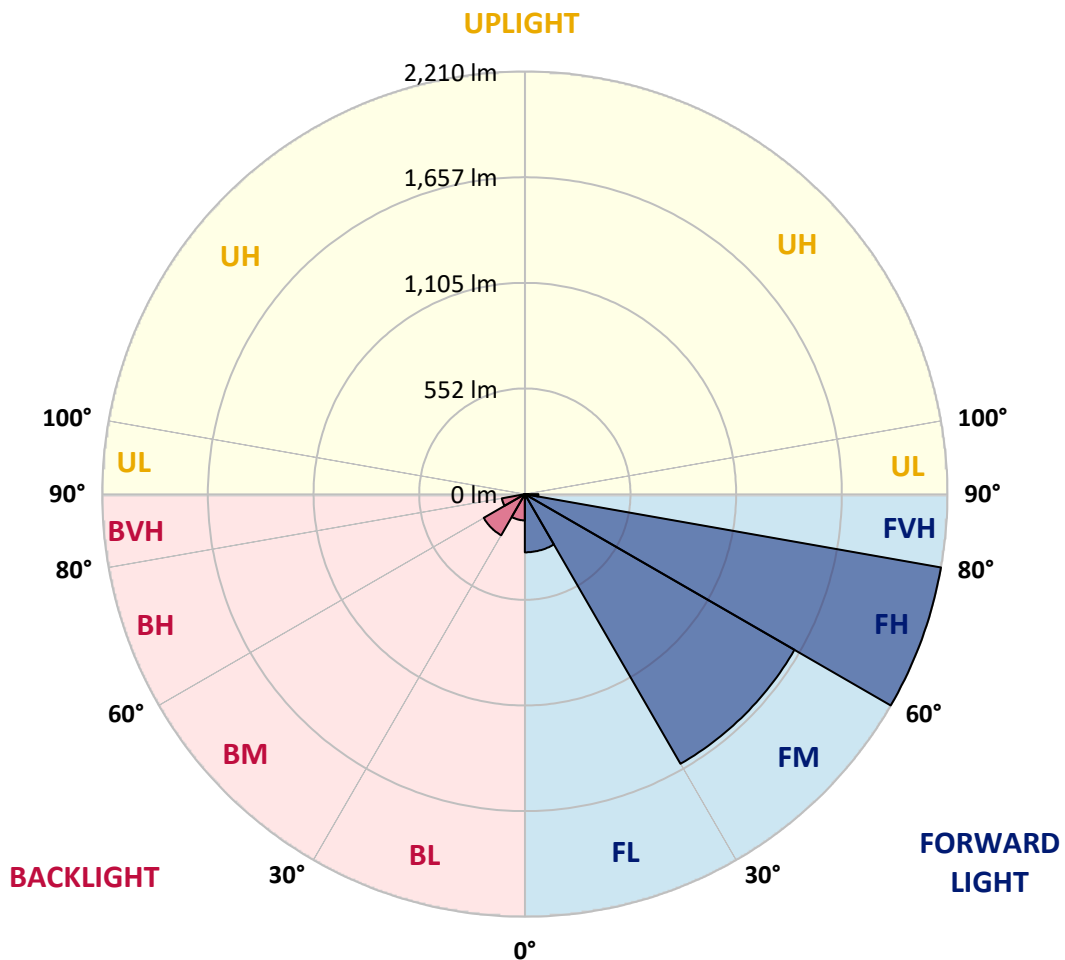
REPORT NUMBER: P676788
 CATALOG NUMBER: CCW-SA-1F-850-U-T4W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	304.2	6.4			
FM (30°-60°)	1627.6	34.5			
FH (60°-80°)	2209.5	46.8			G2/5000
FVH (80°-90°)	70.6	1.5			G1/100
BL (0°-30°)	137.3	2.9	B1/500		
BM (30°-60°)	248.3	5.3	B1/1000		
BH (60°-80°)	122.2	2.6	B1/500		G1/500
BVH (80°-90°)	0.4	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 Medium





REPORT NUMBER: P676788

CATALOG NUMBER: CCW-SA-1F-850-U-T4W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	504.5	504.5	504.5	504.5	504.5	504.5	504.5	504.5	504.5	504.5	504.5
2.5°	564.7	562.3	565.9	564.7	550.2	552.6	551.4	541.8	524.9	515.3	509.3
5°	629.7	635.7	630.9	620.1	611.6	594.8	592.4	576.7	550.2	533.4	515.3
7.5°	697.1	697.1	687.5	670.6	652.6	634.5	632.1	605.6	582.7	553.8	528.6
10°	747.7	741.7	734.4	716.4	695.9	671.8	659.8	640.5	615.3	580.3	547.8
12.5°	792.2	782.6	770.6	744.1	720.0	693.5	695.9	664.6	647.8	616.5	568.3
15°	817.5	809.1	798.3	774.2	736.9	724.8	720.0	700.7	670.6	639.3	593.6
17.5°	823.5	817.5	803.1	771.8	751.3	736.9	735.7	712.8	699.5	673.0	622.5
20°	811.5	800.7	789.8	769.4	750.1	745.3	741.7	741.7	724.8	689.9	640.5
22.5°	791.0	779.0	773.0	760.9	745.3	744.1	746.5	744.1	730.8	708.0	659.8
25°	775.4	769.4	759.7	756.1	746.5	764.5	760.9	757.3	753.7	727.2	689.9
27.5°	780.2	779.0	771.8	757.3	750.1	769.4	780.2	781.4	780.2	753.7	717.6
30°	782.6	776.6	769.4	765.8	768.2	787.4	787.4	813.9	803.1	776.6	745.3
32.5°	810.3	806.7	782.6	774.2	775.4	798.3	799.5	826.0	822.3	804.3	769.4
35°	869.3	845.2	810.3	786.2	786.2	816.3	806.7	845.2	854.8	826.0	786.2
37.5°	957.2	939.1	876.5	822.3	801.9	823.5	833.2	854.8	883.7	858.5	819.9
40°	1131.8	1128.2	1039.1	922.3	841.6	860.9	864.5	898.2	917.5	882.5	871.7
42.5°	1387.0	1369.0	1285.9	1101.7	913.8	905.4	918.7	940.3	986.1	957.2	930.7
45°	1636.3	1627.8	1544.7	1338.9	1045.1	994.5	987.3	1025.8	1093.2	1061.9	1041.5
47.5°	1816.9	1800.0	1753.0	1579.7	1237.7	1099.3	1104.1	1142.6	1228.1	1204.0	1210.0
50°	1955.3	1946.9	1897.5	1802.4	1480.9	1264.2	1254.6	1293.1	1408.7	1424.3	1441.2
52.5°	2107.0	2122.7	2056.5	1975.8	1768.7	1485.8	1464.1	1477.3	1626.6	1662.7	1709.7
55°	2252.7	2278.0	2211.8	2200.9	2069.7	1731.4	1727.8	1696.5	1889.1	1893.9	1919.2
57.5°	2347.8	2339.4	2334.6	2393.6	2370.7	2013.1	1995.0	1963.7	2138.3	2107.0	2182.9
60°	2355.0	2379.1	2459.8	2605.5	2646.4	2344.2	2317.7	2232.2	2353.8	2279.2	2423.7
62.5°	2409.2	2428.5	2577.8	2778.9	2831.8	2635.6	2653.6	2436.9	2538.1	2479.1	2691.0
65°	2272.0	2332.2	2632.0	2913.7	3075.0	2930.6	2912.5	2700.6	2727.1	2671.7	2954.6
67.5°	2148.0	2170.8	2483.9	2954.6	3267.7	3226.8	3219.5	2934.2	2922.1	2819.8	3029.3
70°	1745.8	1773.5	2082.9	2745.1	3332.7	3572.3	3555.4	3261.7	3054.6	2739.1	2646.4
72.5°	1000.5	1055.9	1443.6	2114.2	2994.4	3668.6	3684.3	3314.6	2898.1	2303.3	1767.5
75°	327.5	343.1	599.6	1198.0	2239.5	3200.3	3172.6	2848.7	2338.2	1520.7	798.3
77.5°	110.8	113.2	177.0	433.4	1241.3	2162.4	2178.1	2036.0	1436.4	632.1	220.3
80°	56.6	60.2	86.7	162.5	510.5	1177.5	1202.8	1160.7	602.0	186.6	53.0
82.5°	26.5	27.7	50.6	90.3	233.6	462.3	462.3	508.1	213.1	104.7	21.7
85°	9.6	9.6	26.5	51.8	98.7	154.1	155.3	156.5	112.0	78.3	9.6
87.5°	3.6	3.6	13.2	21.7	36.1	47.0	47.0	37.3	56.6	51.8	3.6
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: P676788

CATALOG NUMBER: CCW-SA-1F-850-U-T4W-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	504.5	504.5	504.5	504.5	504.5	504.5	504.5	504.5	504.5	504.5	504.5
2.5°	506.9	499.7	493.6	485.2	474.4	468.4	469.6	462.3	462.3	458.7	457.5
5°	506.9	499.7	484.0	469.6	459.9	447.9	441.9	437.1	437.1	434.6	435.9
7.5°	510.5	499.7	478.0	458.7	443.1	431.0	421.4	420.2	417.8	411.8	416.6
10°	532.2	516.5	480.4	453.9	435.9	422.6	405.8	400.9	393.7	382.9	384.1
12.5°	550.2	529.8	497.3	461.1	438.3	416.6	378.1	335.9	317.9	298.6	299.8
15°	576.7	547.8	503.3	470.8	438.3	368.4	298.6	244.4	215.5	201.1	201.1
17.5°	591.2	567.1	520.1	476.8	403.3	299.8	211.9	164.9	160.1	162.5	162.5
20°	621.3	588.8	539.4	481.6	345.6	213.1	155.3	150.5	152.9	157.7	156.5
22.5°	640.5	608.0	553.8	459.9	267.3	152.9	145.7	143.3	145.7	151.7	151.7
25°	656.2	635.7	576.7	407.0	189.0	138.5	136.1	138.5	140.9	143.3	146.9
27.5°	694.7	659.8	592.4	338.3	136.1	128.8	131.2	132.4	132.4	136.1	137.3
30°	720.0	692.3	604.4	261.3	120.4	119.2	121.6	122.8	124.0	127.6	128.8
32.5°	744.1	734.4	588.8	177.0	113.2	110.8	109.6	110.8	115.6	119.2	118.0
35°	779.0	773.0	565.9	122.8	106.0	101.1	98.7	99.9	103.5	107.2	106.0
37.5°	821.1	827.2	510.5	107.2	98.7	92.7	87.9	87.9	89.1	92.7	93.9
40°	870.5	886.2	445.5	99.9	93.9	86.7	81.9	75.9	74.6	73.4	74.6
42.5°	960.8	978.9	372.0	95.1	86.7	78.3	71.0	63.8	57.8	54.2	54.2
45°	1087.2	1072.8	275.7	90.3	83.1	71.0	60.2	51.8	43.3	39.7	39.7
47.5°	1261.8	1212.4	189.0	85.5	77.1	62.6	50.6	39.7	32.5	28.9	28.9
50°	1503.8	1341.3	122.8	80.7	73.4	54.2	40.9	28.9	24.1	22.9	24.1
52.5°	1732.6	1472.5	97.5	74.6	66.2	47.0	31.3	24.1	21.7	20.5	20.5
55°	1943.3	1538.7	86.7	68.6	60.2	38.5	26.5	20.5	19.3	18.1	18.1
57.5°	2121.5	1561.6	74.6	60.2	48.2	30.1	21.7	18.1	15.7	14.4	14.4
60°	2275.6	1567.6	57.8	48.2	34.9	22.9	18.1	15.7	13.2	10.8	10.8
62.5°	2398.4	1525.5	40.9	33.7	24.1	18.1	15.7	10.8	7.2	4.8	3.6
65°	2495.9	1441.2	27.7	22.9	15.7	13.2	9.6	4.8	1.2	0.0	0.0
67.5°	2381.5	1249.8	21.7	16.9	10.8	8.4	4.8	1.2	0.0	0.0	0.0
70°	1942.1	969.2	15.7	10.8	7.2	2.4	1.2	0.0	0.0	0.0	0.0
72.5°	1322.0	624.9	12.0	7.2	3.6	1.2	0.0	0.0	0.0	0.0	0.0
75°	593.6	223.9	8.4	4.8	1.2	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	144.5	53.0	6.0	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	38.5	13.2	3.6	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	14.4	4.8	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	6.0	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.4	1.2	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)