

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: P676678

Luminaire Tested: **CCW-SA-1F-727-U-T4W-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P676678
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1F-727-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) 2700K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

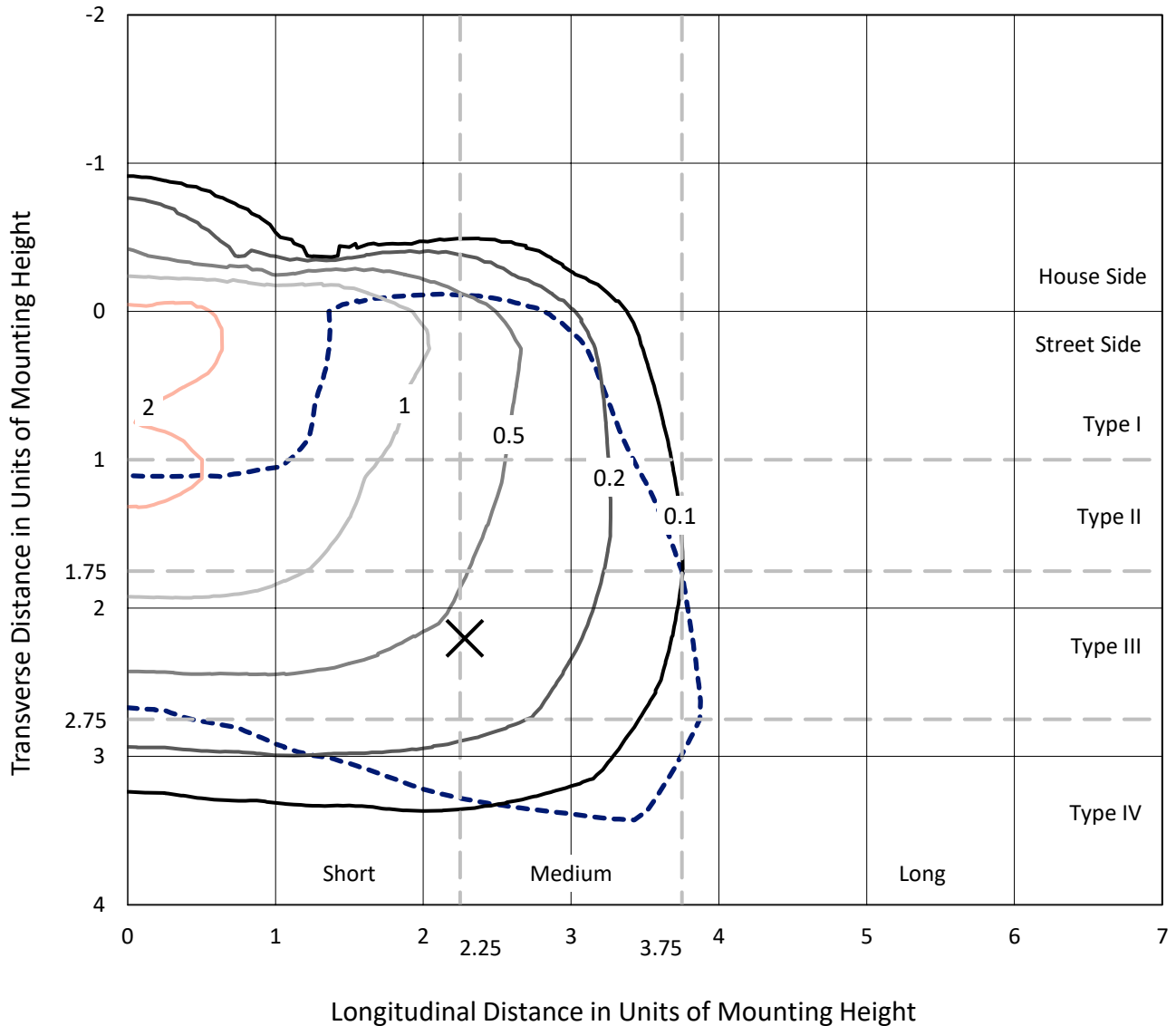
Lumens per Lamp: N/A
Luminaire Lumens: 4523.9 lumens
Efficiency: N/A
Efficacy: 67.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B1 - U0 - G2

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: P676678
 CATALOG NUMBER: CCW-SA-1F-727-U-T4W-HSS

Iso-Footcandle Lines of Horizontal Illumination

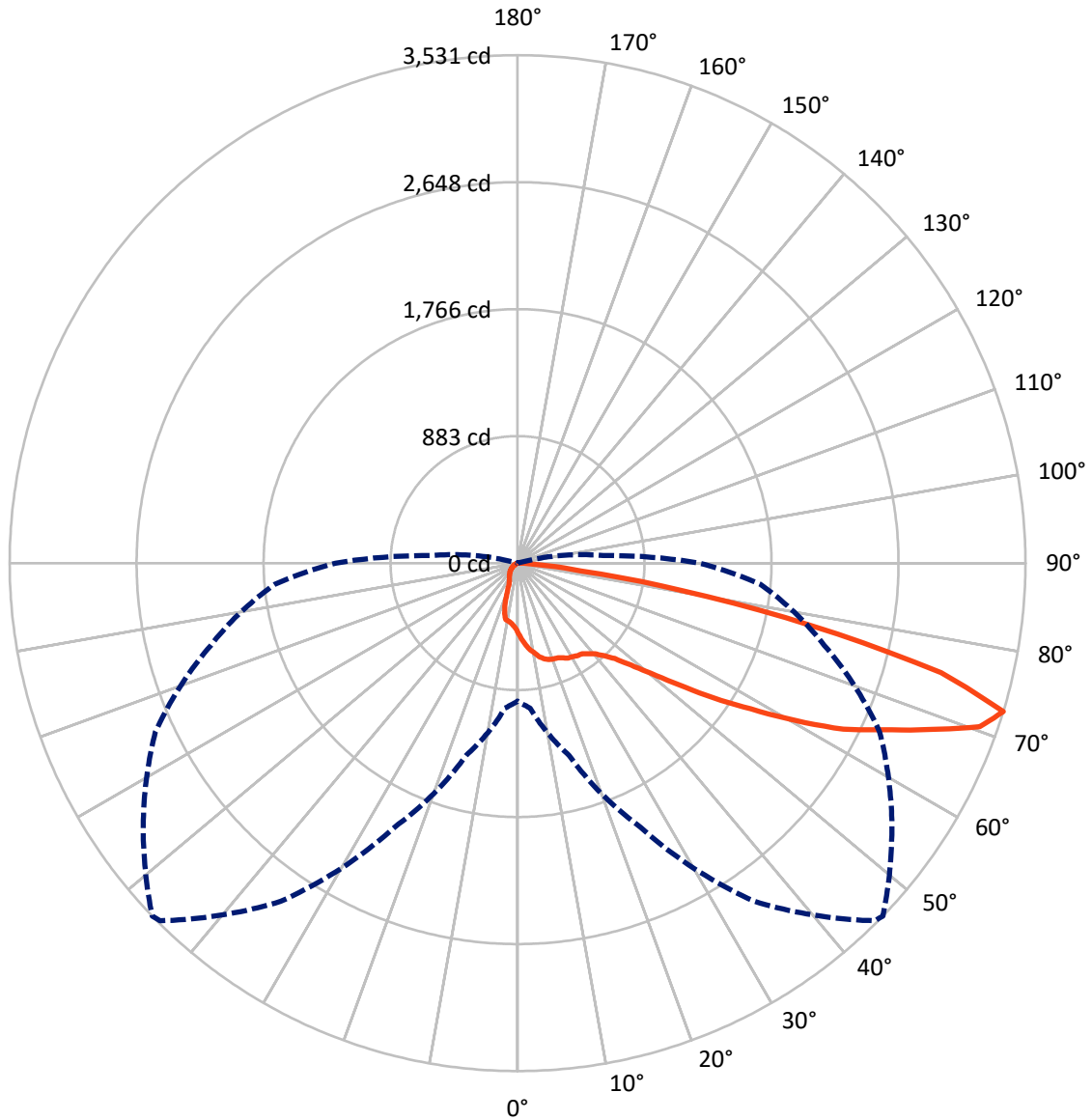
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 3.1 fc
 Type IV - Medium - N/A

REPORT NUMBER: P676678
CATALOG NUMBER: CCW-SA-1F-727-U-T4W-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P676678

CATALOG NUMBER: CCW-SA-1F-727-U-T4W-HSS

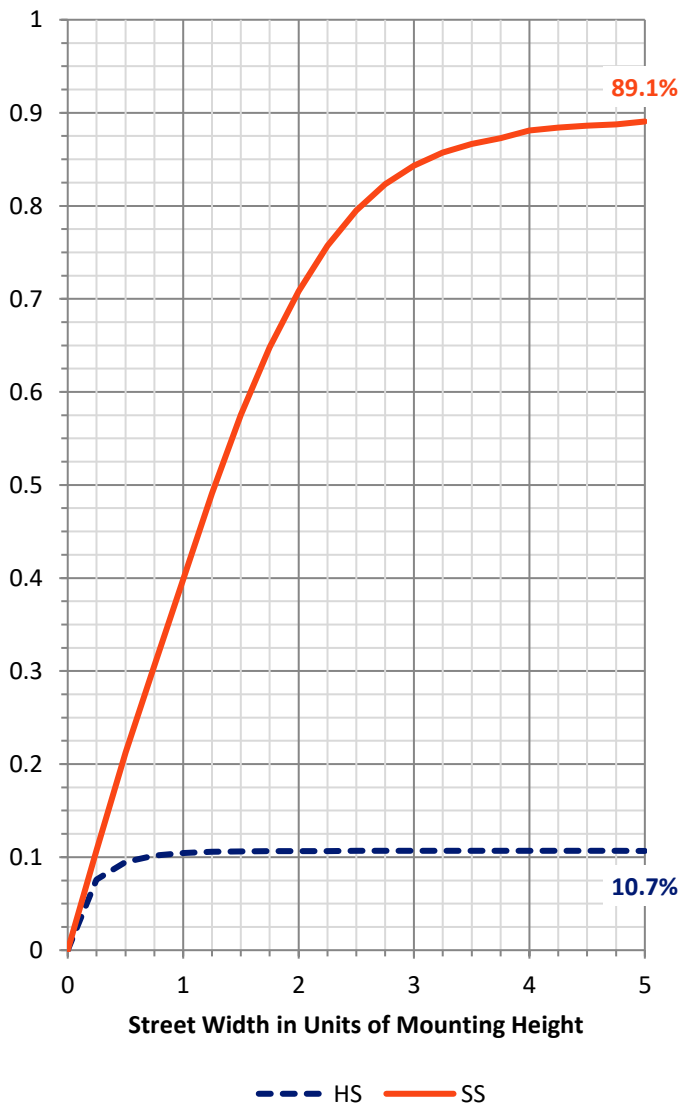
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	487.0	0.0	487.0
	% Fixture	10.8	0.0	10.8
Street Side	Lumens	4036.9	0.0	4036.9
	% Fixture	89.2	0.0	89.2
Total	Lumens	4523.9	0.0	4523.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	48.4	1.1
10°-20°	146.1	3.2
20°-30°	228.7	5.1
30°-40°	320.3	7.1
40°-50°	528.2	11.7
50°-60°	949.4	21.0
60°-70°	1376.0	30.4
70°-80°	858.8	19.0
80°-90°	68.1	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°	4523.9	100.0
0°-180°	4523.9	100.0



REPORT NUMBER: P676678

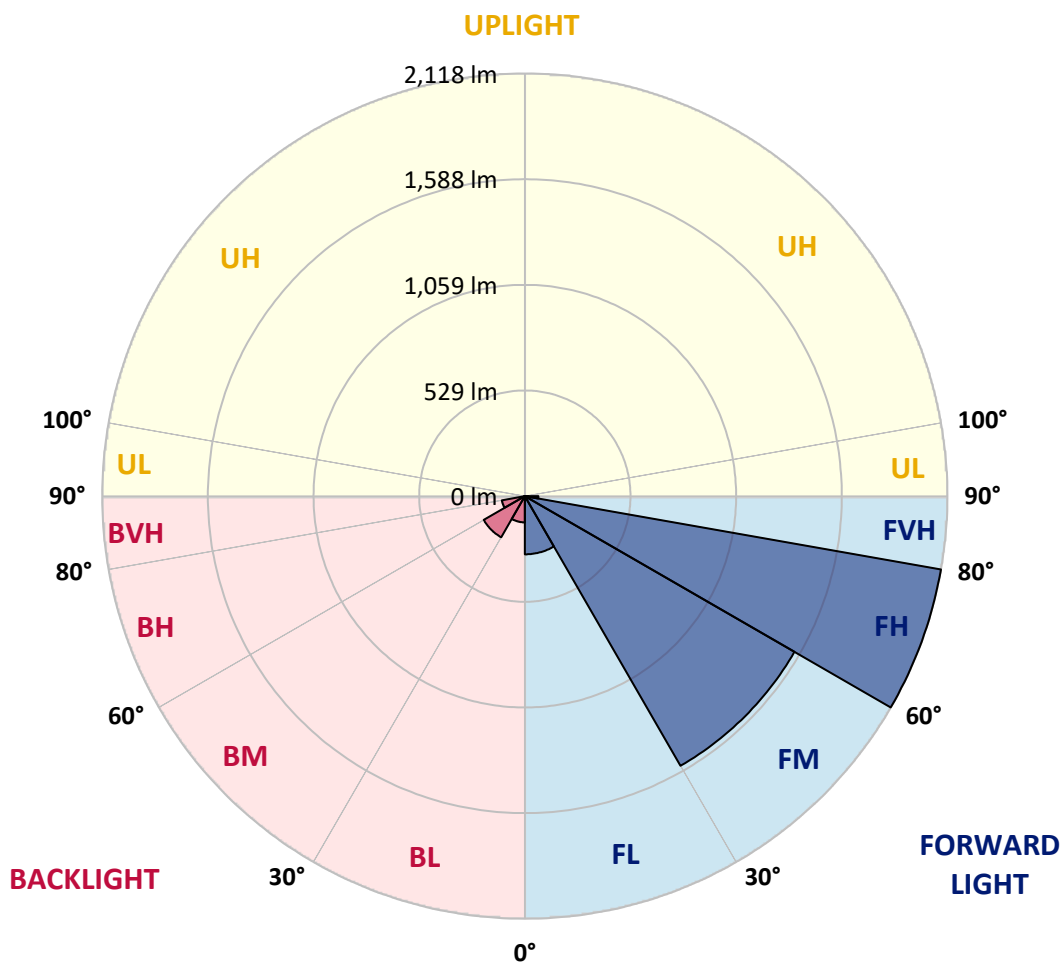
CATALOG NUMBER: CCW-SA-1F-727-U-T4W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	291.6	6.4			
FM (30°-60°)	1559.9	34.5			
FH (60°-80°)	2117.6	46.8			G2/5000
FVH (80°-90°)	67.7	1.5			G1/100
BL (0°-30°)	131.6	2.9	B1/500		
BM (30°-60°)	237.9	5.3	B1/1000		
BH (60°-80°)	117.1	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: P676678

CATALOG NUMBER: CCW-SA-1F-727-U-T4W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	483.5	483.5	483.5	483.5	483.5	483.5	483.5	483.5	483.5	483.5	483.5
2.5°	541.2	538.9	542.3	541.2	527.3	529.7	528.5	519.3	503.1	493.9	488.1
5°	603.5	609.3	604.7	594.3	586.2	570.0	567.7	552.7	527.3	511.2	493.9
7.5°	668.1	668.1	658.9	642.7	625.4	608.1	605.8	580.4	558.5	530.8	506.6
10°	716.6	710.8	703.9	686.6	667.0	643.9	632.4	613.9	589.7	556.2	525.0
12.5°	759.3	750.1	738.5	713.1	690.0	664.7	667.0	637.0	620.8	590.8	544.7
15°	783.5	775.4	765.1	742.0	706.2	694.7	690.0	671.6	642.7	612.7	568.9
17.5°	789.3	783.5	769.7	739.7	720.0	706.2	705.0	683.1	670.4	645.0	596.6
20°	777.7	767.4	757.0	737.4	718.9	714.3	710.8	710.8	694.7	661.2	613.9
22.5°	758.1	746.6	740.8	729.3	714.3	713.1	715.4	713.1	700.4	678.5	632.4
25°	743.1	737.4	728.1	724.7	715.4	732.7	729.3	725.8	722.4	697.0	661.2
27.5°	747.7	746.6	739.7	725.8	718.9	737.4	747.7	748.9	747.7	722.4	687.7
30°	750.1	744.3	737.4	733.9	736.2	754.7	754.7	780.1	769.7	744.3	714.3
32.5°	776.6	773.1	750.1	742.0	743.1	765.1	766.2	791.6	788.1	770.8	737.4
35°	833.1	810.1	776.6	753.5	753.5	782.4	773.1	810.1	819.3	791.6	753.5
37.5°	917.4	900.1	840.1	788.1	768.5	789.3	798.5	819.3	847.0	822.7	785.8
40°	1084.7	1081.2	995.8	883.9	806.6	825.1	828.5	860.8	879.3	845.8	835.4
42.5°	1329.3	1312.0	1232.4	1055.8	875.8	867.8	880.4	901.2	945.1	917.4	892.0
45°	1568.2	1560.1	1480.5	1283.2	1001.6	953.1	946.2	983.1	1047.8	1017.8	998.1
47.5°	1741.3	1725.1	1680.1	1514.0	1186.2	1053.5	1058.2	1095.1	1177.0	1153.9	1159.7
50°	1874.0	1865.9	1818.6	1727.4	1419.3	1211.6	1202.4	1239.3	1350.1	1365.1	1381.2
52.5°	2019.4	2034.4	1970.9	1893.6	1695.1	1423.9	1403.2	1415.9	1559.0	1593.6	1638.6
55°	2159.0	2183.2	2119.8	2109.4	1983.6	1659.3	1655.9	1625.9	1810.5	1815.1	1839.4
57.5°	2250.2	2242.1	2237.5	2294.0	2272.1	1929.4	1912.1	1882.1	2049.4	2019.4	2092.1
60°	2257.1	2280.2	2357.5	2497.1	2536.3	2246.7	2221.3	2139.4	2255.9	2184.4	2322.9
62.5°	2309.0	2327.5	2470.6	2663.3	2714.0	2525.9	2543.3	2335.5	2432.5	2375.9	2579.0
65°	2177.5	2235.2	2522.5	2792.5	2947.1	2808.7	2791.3	2588.3	2613.6	2560.6	2831.7
67.5°	2058.6	2080.5	2380.5	2831.7	3131.8	3092.5	3085.6	2812.1	2800.6	2702.5	2903.3
70°	1673.2	1699.7	1996.3	2631.0	3194.1	3423.7	3407.5	3126.0	2927.5	2625.2	2536.3
72.5°	958.9	1012.0	1383.6	2026.3	2869.8	3516.0	3531.0	3176.8	2777.5	2207.5	1694.0
75°	313.9	328.9	574.7	1148.2	2146.3	3067.1	3040.6	2730.2	2240.9	1457.4	765.1
77.5°	106.2	108.5	169.6	415.4	1189.7	2072.5	2087.5	1951.3	1376.6	605.8	211.2
80°	54.2	57.7	83.1	155.8	489.3	1128.5	1152.8	1112.4	577.0	178.9	50.8
82.5°	25.4	26.5	48.5	86.5	223.9	443.1	443.1	487.0	204.2	100.4	20.8
85°	9.2	9.2	25.4	49.6	94.6	147.7	148.9	150.0	107.3	75.0	9.2
87.5°	3.5	3.5	12.7	20.8	34.6	45.0	45.0	35.8	54.2	49.6	3.5
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: P676678
 CATALOG NUMBER: CCW-SA-1F-727-U-T4W-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	483.5	483.5	483.5	483.5	483.5	483.5	483.5	483.5	483.5	483.5	483.5
2.5°	485.8	478.9	473.1	465.0	454.6	448.9	450.0	443.1	443.1	439.6	438.5
5°	485.8	478.9	463.9	450.0	440.8	429.3	423.5	418.9	418.9	416.6	417.7
7.5°	489.3	478.9	458.1	439.6	424.6	413.1	403.9	402.7	400.4	394.6	399.3
10°	510.0	495.0	460.4	435.0	417.7	405.0	388.9	384.3	377.3	366.9	368.1
12.5°	527.3	507.7	476.6	442.0	420.0	399.3	362.3	321.9	304.6	286.2	287.3
15°	552.7	525.0	482.3	451.2	420.0	353.1	286.2	234.2	206.6	192.7	192.7
17.5°	566.6	543.5	498.5	457.0	386.6	287.3	203.1	158.1	153.5	155.8	155.8
20°	595.4	564.3	517.0	461.6	331.2	204.2	148.9	144.2	146.5	151.2	150.0
22.5°	613.9	582.7	530.8	440.8	256.2	146.5	139.6	137.3	139.6	145.4	145.4
25°	628.9	609.3	552.7	390.0	181.2	132.7	130.4	132.7	135.0	137.3	140.8
27.5°	665.8	632.4	567.7	324.3	130.4	123.5	125.8	126.9	126.9	130.4	131.5
30°	690.0	663.5	579.3	250.4	115.4	114.2	116.5	117.7	118.9	122.3	123.5
32.5°	713.1	703.9	564.3	169.6	108.5	106.2	105.0	106.2	110.8	114.2	113.1
35°	746.6	740.8	542.3	117.7	101.5	96.9	94.6	95.8	99.2	102.7	101.5
37.5°	787.0	792.7	489.3	102.7	94.6	88.9	84.2	84.2	85.4	88.9	90.0
40°	834.3	849.3	427.0	95.8	90.0	83.1	78.5	72.7	71.5	70.4	71.5
42.5°	920.8	938.1	356.6	91.2	83.1	75.0	68.1	61.2	55.4	51.9	51.9
45°	1042.0	1028.1	264.2	86.5	79.6	68.1	57.7	49.6	41.5	38.1	38.1
47.5°	1209.3	1162.0	181.2	81.9	73.9	60.0	48.5	38.1	31.2	27.7	27.7
50°	1441.3	1285.5	117.7	77.3	70.4	51.9	39.2	27.7	23.1	21.9	23.1
52.5°	1660.5	1411.3	93.5	71.5	63.5	45.0	30.0	23.1	20.8	19.6	19.6
55°	1862.4	1474.7	83.1	65.8	57.7	36.9	25.4	19.6	18.5	17.3	17.3
57.5°	2033.2	1496.6	71.5	57.7	46.2	28.8	20.8	17.3	15.0	13.8	13.8
60°	2180.9	1502.4	55.4	46.2	33.5	21.9	17.3	15.0	12.7	10.4	10.4
62.5°	2298.6	1462.0	39.2	32.3	23.1	17.3	15.0	10.4	6.9	4.6	3.5
65°	2392.1	1381.2	26.5	21.9	15.0	12.7	9.2	4.6	1.2	0.0	0.0
67.5°	2282.5	1197.8	20.8	16.2	10.4	8.1	4.6	1.2	0.0	0.0	0.0
70°	1861.3	928.9	15.0	10.4	6.9	2.3	1.2	0.0	0.0	0.0	0.0
72.5°	1267.0	598.9	11.5	6.9	3.5	1.2	0.0	0.0	0.0	0.0	0.0
75°	568.9	214.6	8.1	4.6	1.2	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	138.5	50.8	5.8	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	36.9	12.7	3.5	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	13.8	4.6	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	5.8	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.3	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)