

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: P676741

Luminaire Tested: **CCW-SA-1C-827-U-T4W-HSS**

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P676741  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-1C-827-U-T4W-HSS  
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @615mA w/  
T4W distribution lens and House Side Shield  
Light Source: (16) 2700K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

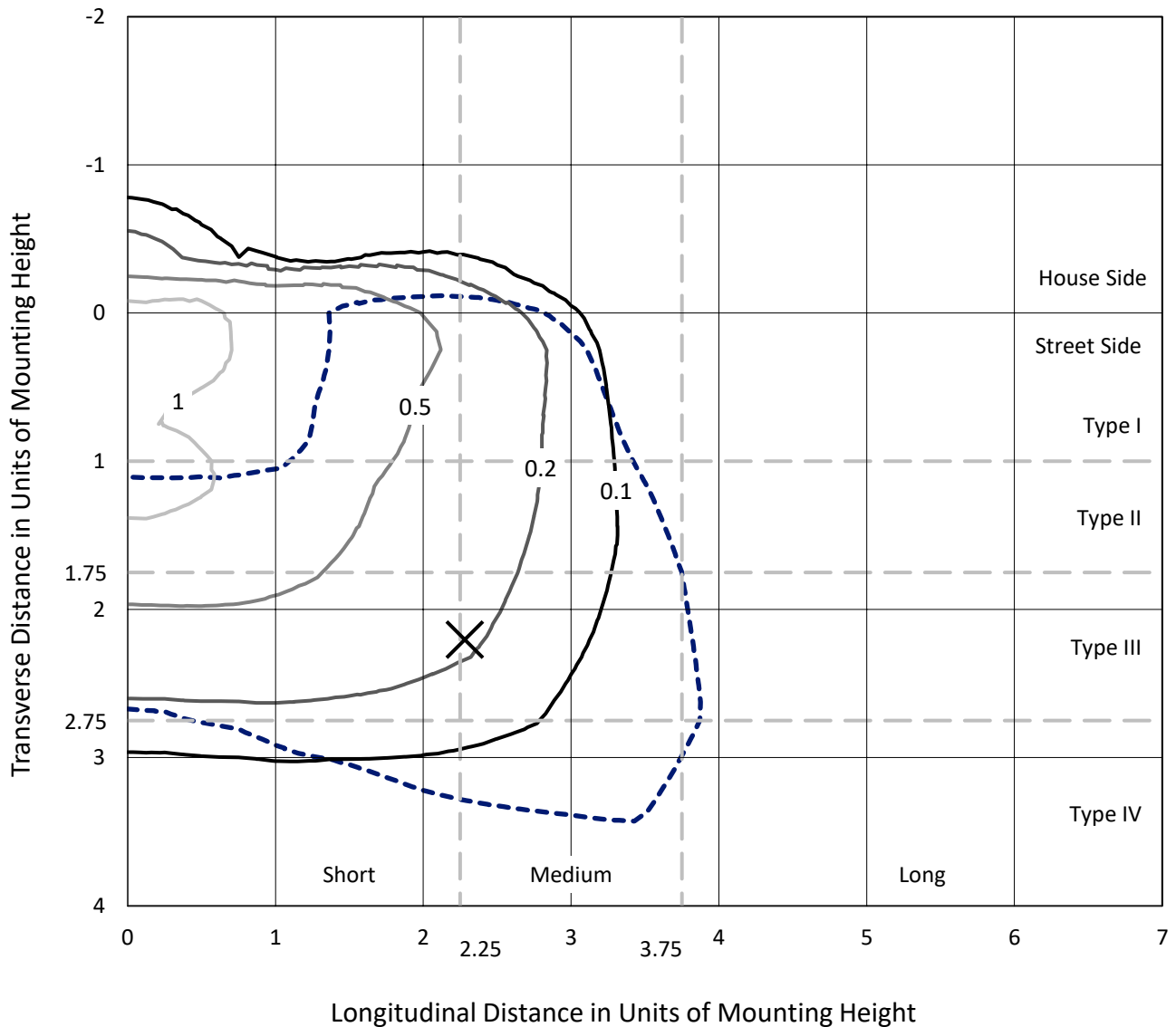
Lumens per Lamp: N/A  
Luminaire Lumens: 2397.9 lumens  
Efficiency: N/A  
Efficacy: 74.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B0 - U0 - G1

Input Watts (W): 32  
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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 CATALOG NUMBER: CCW-SA-1C-827-U-T4W-HSS

### Iso-Footcandle Lines of Horizontal Illumination

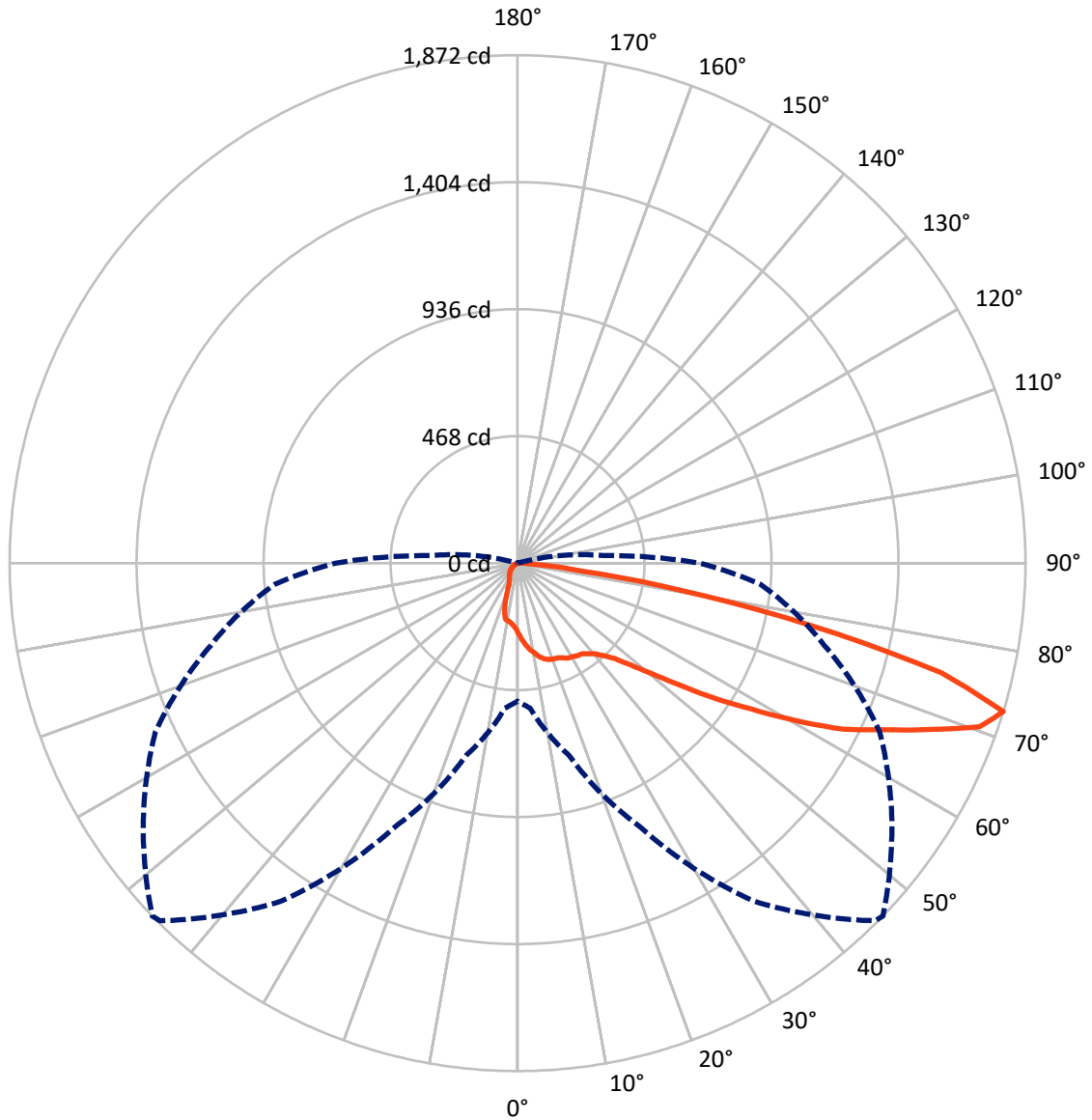
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 1.7 fc  
 Type IV - Medium - N/A

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CATALOG NUMBER: CCW-SA-1C-827-U-T4W-HSS

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P676741

CATALOG NUMBER: CCW-SA-1C-827-U-T4W-HSS

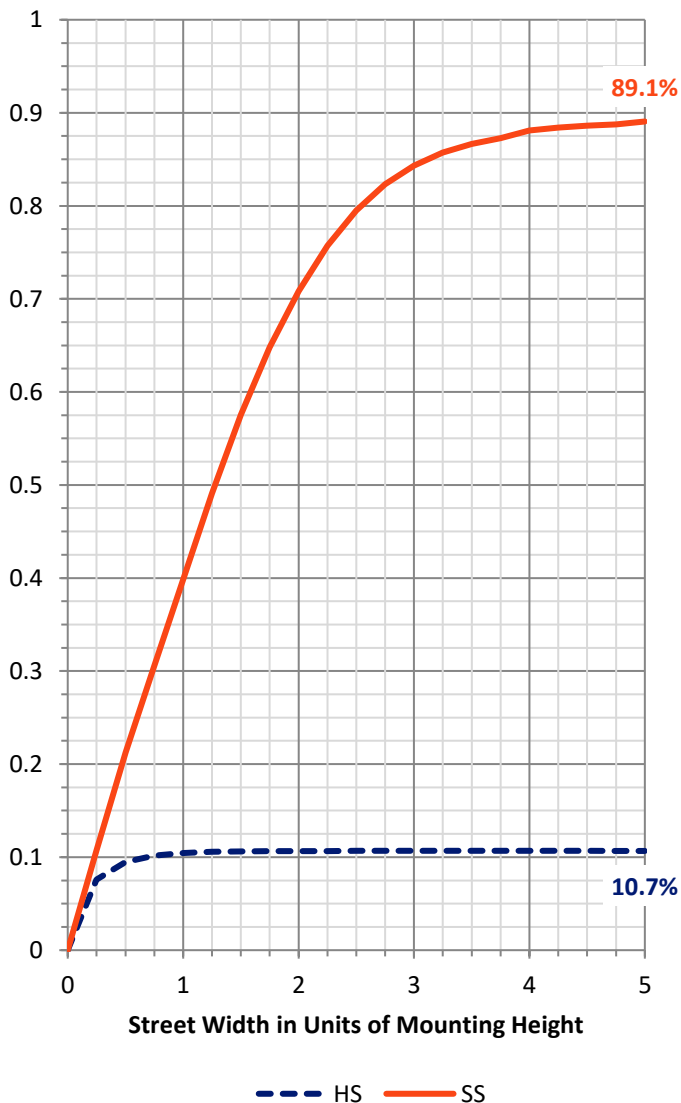
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	258.2	0.0	258.2
	% Fixture	10.8	0.0	10.8
<b>Street Side</b>	Lumens	2139.7	0.0	2139.7
	% Fixture	89.2	0.0	89.2
<b>Total</b>	Lumens	2397.9	0.0	2397.9
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	25.7	1.1
10°-20°	77.4	3.2
20°-30°	121.2	5.1
30°-40°	169.8	7.1
40°-50°	280.0	11.7
50°-60°	503.2	21.0
60°-70°	729.3	30.4
70°-80°	455.2	19.0
80°-90°	36.1	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°	2397.9	100.0
0°-180°	2397.9	100.0

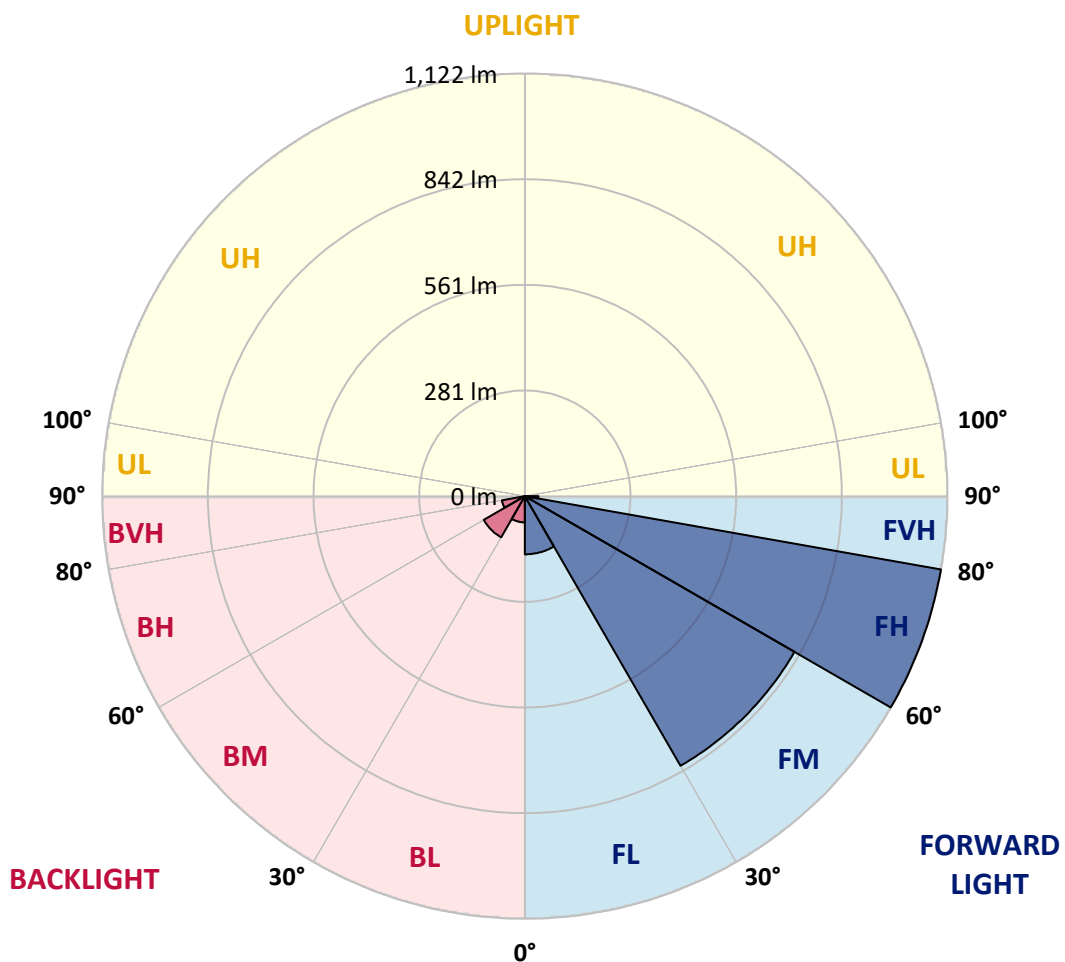


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	154.6	6.4			
FM (30°-60°)	826.8	34.5			
FH (60°-80°)	1122.4	46.8			G1/1800
FVH (80°-90°)	35.9	1.5			G1/100
BL (0°-30°)	69.8	2.9	B0/110		
BM (30°-60°)	126.1	5.3	B0/220		
BH (60°-80°)	62.1	2.6	B0/110		G0/110
BVH (80°-90°)	0.2	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B0-U0-G1**  
 Type IV Medium





REPORT NUMBER: P676741

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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	256.3	256.3	256.3	256.3	256.3	256.3	256.3	256.3	256.3	256.3	256.3
2.5°	286.9	285.6	287.5	286.9	279.5	280.7	280.1	275.2	266.7	261.8	258.7
5°	319.9	322.9	320.5	315.0	310.7	302.1	300.9	293.0	279.5	271.0	261.8
7.5°	354.1	354.1	349.2	340.7	331.5	322.3	321.1	307.7	296.0	281.4	268.5
10°	379.8	376.8	373.1	363.9	353.5	341.3	335.2	325.4	312.5	294.8	278.3
12.5°	402.5	397.6	391.4	378.0	365.8	352.3	353.5	337.6	329.1	313.2	288.7
15°	415.3	411.0	405.5	393.3	374.3	368.2	365.8	356.0	340.7	324.8	301.5
17.5°	418.4	415.3	408.0	392.1	381.7	374.3	373.7	362.1	355.4	341.9	316.2
20°	412.2	406.7	401.2	390.8	381.1	378.6	376.8	376.8	368.2	350.5	325.4
22.5°	401.8	395.7	392.7	386.6	378.6	378.0	379.2	378.0	371.3	359.6	335.2
25°	393.9	390.8	385.9	384.1	379.2	388.4	386.6	384.7	382.9	369.4	350.5
27.5°	396.3	395.7	392.1	384.7	381.1	390.8	396.3	397.0	396.3	382.9	364.5
30°	397.6	394.5	390.8	389.0	390.2	400.0	400.0	413.5	408.0	394.5	378.6
32.5°	411.6	409.8	397.6	393.3	393.9	405.5	406.1	419.6	417.7	408.6	390.8
35°	441.6	429.4	411.6	399.4	399.4	414.7	409.8	429.4	434.3	419.6	399.4
37.5°	486.3	477.1	445.3	417.7	407.4	418.4	423.3	434.3	448.9	436.1	416.5
40°	574.9	573.1	527.8	468.5	427.5	437.3	439.2	456.3	466.1	448.3	442.8
42.5°	704.6	695.4	653.2	559.6	464.2	460.0	466.7	477.7	500.9	486.3	472.8
45°	831.2	826.9	784.7	680.1	530.9	505.2	501.5	521.1	555.4	539.5	529.1
47.5°	923.0	914.4	890.5	802.5	628.8	558.4	560.9	580.4	623.9	611.6	614.7
50°	993.3	989.0	963.9	915.6	752.3	642.2	637.3	656.9	715.6	723.6	732.1
52.5°	1070.4	1078.3	1044.7	1003.7	898.5	754.8	743.8	750.5	826.3	844.7	868.5
55°	1144.4	1157.2	1123.6	1118.1	1051.4	879.5	877.7	861.8	959.7	962.1	975.0
57.5°	1192.7	1188.4	1186.0	1215.9	1204.3	1022.7	1013.5	997.6	1086.3	1070.4	1108.9
60°	1196.4	1208.6	1249.6	1323.6	1344.4	1190.9	1177.4	1134.0	1195.8	1157.8	1231.2
62.5°	1223.9	1233.7	1309.5	1411.7	1438.6	1338.9	1348.1	1238.0	1289.3	1259.4	1367.0
65°	1154.2	1184.7	1337.0	1480.2	1562.1	1488.7	1479.6	1371.9	1385.4	1357.2	1501.0
67.5°	1091.2	1102.8	1261.8	1501.0	1660.0	1639.2	1635.5	1490.6	1484.4	1432.5	1538.9
70°	886.9	900.9	1058.1	1394.5	1693.0	1814.7	1806.2	1656.9	1551.7	1391.5	1344.4
72.5°	508.3	536.4	733.4	1074.0	1521.1	1863.7	1871.6	1683.8	1472.2	1170.1	897.9
75°	166.4	174.3	304.6	608.6	1137.6	1625.7	1611.7	1447.1	1187.8	772.5	405.5
77.5°	56.3	57.5	89.9	220.2	630.6	1098.5	1106.5	1034.3	729.7	321.1	111.9
80°	28.7	30.6	44.0	82.6	259.3	598.2	611.0	589.6	305.8	94.8	26.9
82.5°	13.5	14.1	25.7	45.9	118.7	234.9	234.9	258.1	108.3	53.2	11.0
85°	4.9	4.9	13.5	26.3	50.2	78.3	78.9	79.5	56.9	39.8	4.9
87.5°	1.8	1.8	6.7	11.0	18.3	23.9	23.9	19.0	28.7	26.3	1.8
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: P676741  
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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	256.3	256.3	256.3	256.3	256.3	256.3	256.3	256.3	256.3	256.3	256.3
2.5°	257.5	253.8	250.8	246.5	241.0	237.9	238.5	234.9	234.9	233.0	232.4
5°	257.5	253.8	245.9	238.5	233.6	227.5	224.5	222.0	222.0	220.8	221.4
7.5°	259.3	253.8	242.8	233.0	225.1	219.0	214.1	213.5	212.2	209.2	211.6
10°	270.3	262.4	244.0	230.6	221.4	214.7	206.1	203.7	200.0	194.5	195.1
12.5°	279.5	269.1	252.6	234.3	222.6	211.6	192.1	170.6	161.5	151.7	152.3
15°	293.0	278.3	255.7	239.2	222.6	187.2	151.7	124.2	109.5	102.1	102.1
17.5°	300.3	288.1	264.2	242.2	204.9	152.3	107.6	83.8	81.3	82.6	82.6
20°	315.6	299.1	274.0	244.7	175.5	108.3	78.9	76.5	77.7	80.1	79.5
22.5°	325.4	308.9	281.4	233.6	135.8	77.7	74.0	72.8	74.0	77.1	77.1
25°	333.3	322.9	293.0	206.7	96.0	70.3	69.1	70.3	71.6	72.8	74.6
27.5°	352.9	335.2	300.9	171.9	69.1	65.4	66.7	67.3	67.3	69.1	69.7
30°	365.8	351.7	307.0	132.7	61.2	60.6	61.8	62.4	63.0	64.8	65.4
32.5°	378.0	373.1	299.1	89.9	57.5	56.3	55.7	56.3	58.7	60.6	59.9
35°	395.7	392.7	287.5	62.4	53.8	51.4	50.2	50.8	52.6	54.4	53.8
37.5°	417.1	420.2	259.3	54.4	50.2	47.1	44.6	44.6	45.3	47.1	47.7
40°	442.2	450.2	226.3	50.8	47.7	44.0	41.6	38.5	37.9	37.3	37.9
42.5°	488.1	497.3	189.0	48.3	44.0	39.8	36.1	32.4	29.4	27.5	27.5
45°	552.3	545.0	140.1	45.9	42.2	36.1	30.6	26.3	22.0	20.2	20.2
47.5°	641.0	615.9	96.0	43.4	39.1	31.8	25.7	20.2	16.5	14.7	14.7
50°	763.9	681.4	62.4	41.0	37.3	27.5	20.8	14.7	12.2	11.6	12.2
52.5°	880.1	748.0	49.5	37.9	33.6	23.9	15.9	12.2	11.0	10.4	10.4
55°	987.2	781.7	44.0	34.9	30.6	19.6	13.5	10.4	9.8	9.2	9.2
57.5°	1077.7	793.3	37.9	30.6	24.5	15.3	11.0	9.2	8.0	7.3	7.3
60°	1156.0	796.4	29.4	24.5	17.7	11.6	9.2	8.0	6.7	5.5	5.5
62.5°	1218.4	774.9	20.8	17.1	12.2	9.2	8.0	5.5	3.7	2.4	1.8
65°	1267.9	732.1	14.1	11.6	8.0	6.7	4.9	2.4	0.6	0.0	0.0
67.5°	1209.8	634.9	11.0	8.6	5.5	4.3	2.4	0.6	0.0	0.0	0.0
70°	986.6	492.4	8.0	5.5	3.7	1.2	0.6	0.0	0.0	0.0	0.0
72.5°	671.6	317.4	6.1	3.7	1.8	0.6	0.0	0.0	0.0	0.0	0.0
75°	301.5	113.8	4.3	2.4	0.6	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	73.4	26.9	3.1	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	19.6	6.7	1.8	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	7.3	2.4	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	3.1	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.2	0.6	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)