

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: P677196

Luminaire Tested: **CCW-SA-1D-835-U-SL4-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P677196
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1D-835-U-SL4-HSS
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @800mA w/
SL4 distribution lens and House Side Shield
Light Source: (16) 3500K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

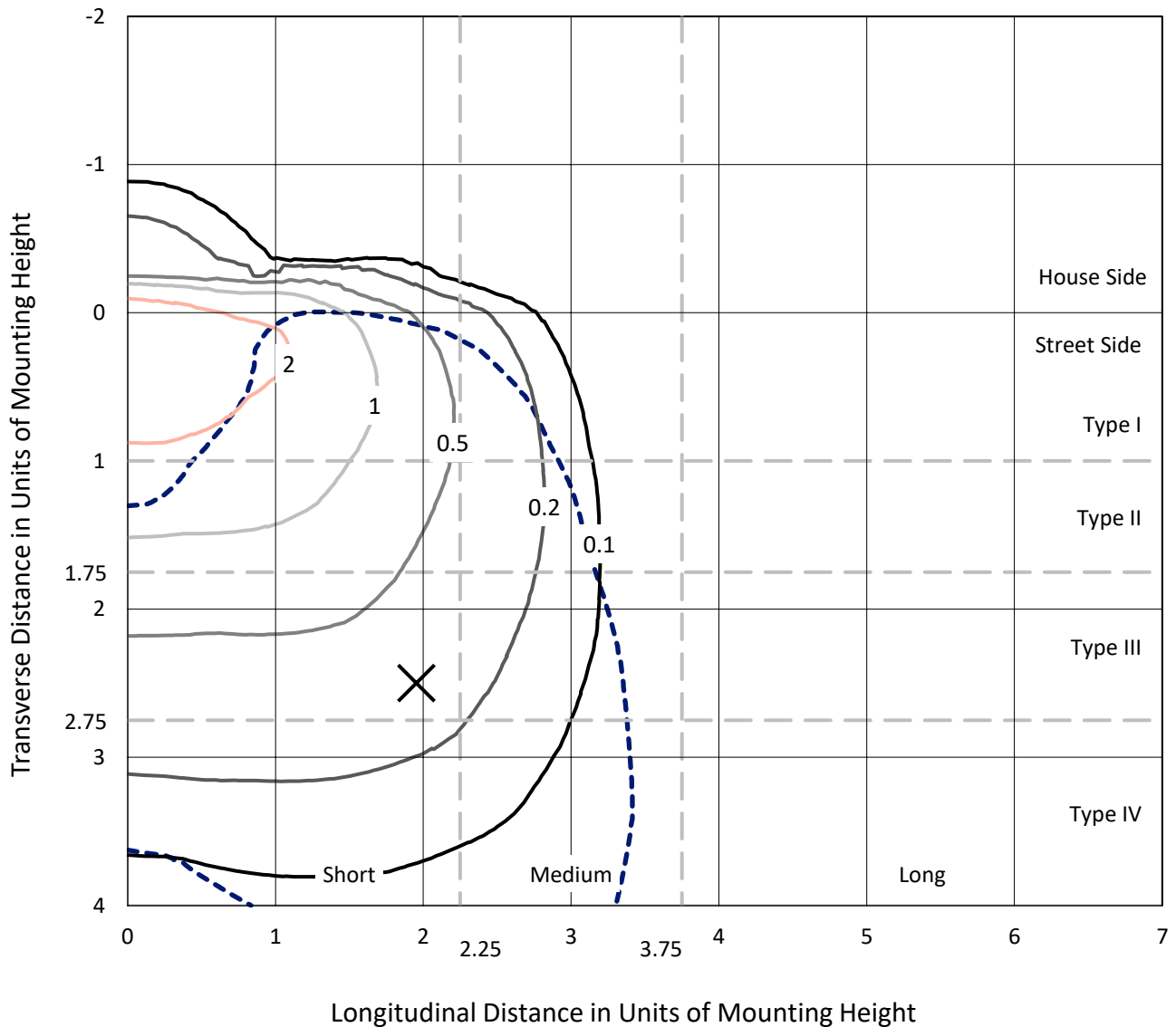
Lumens per Lamp: N/A
Luminaire Lumens: 3795.9 lumens
Efficiency: N/A
Efficacy: 86.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 44
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

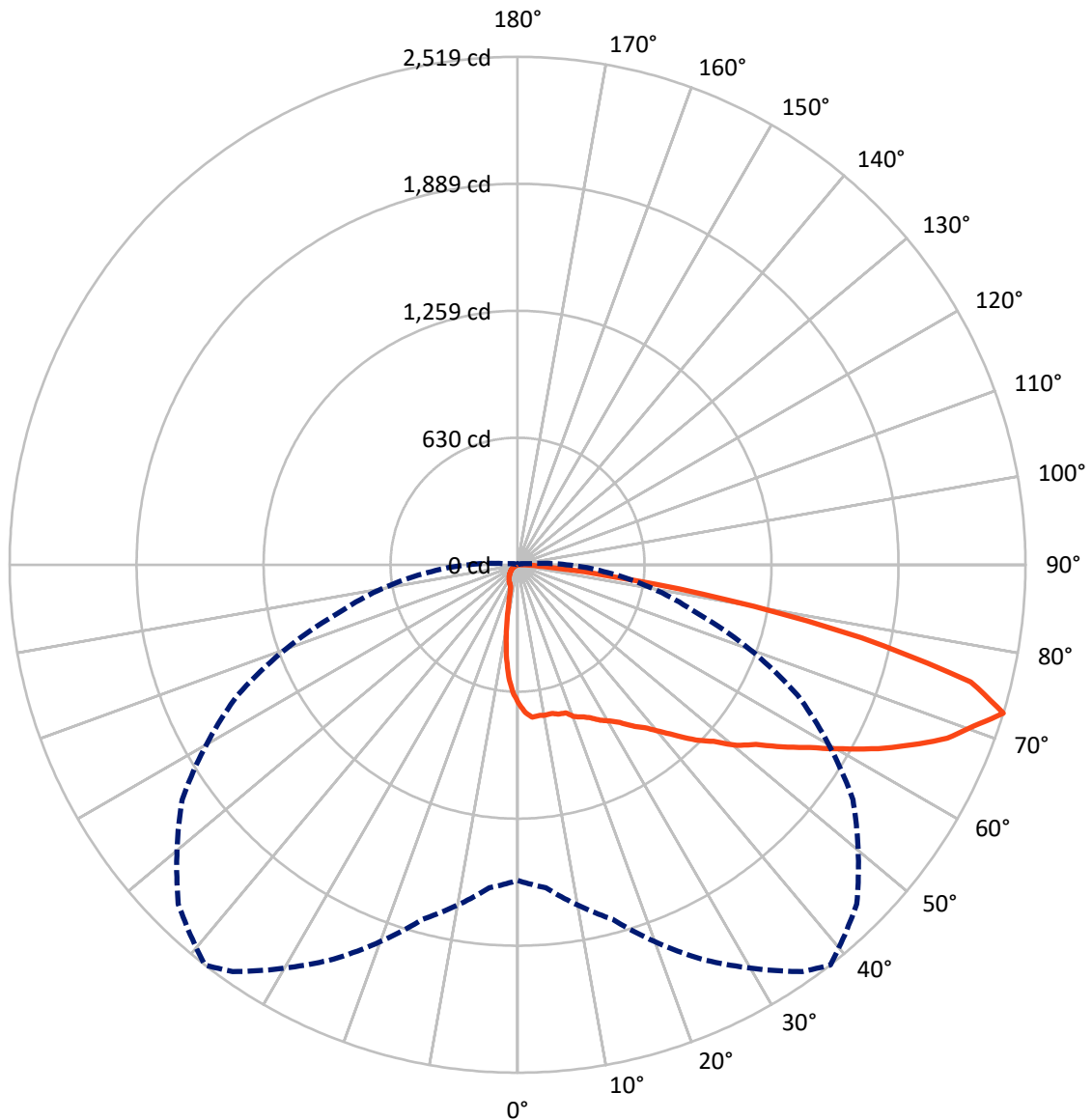
× Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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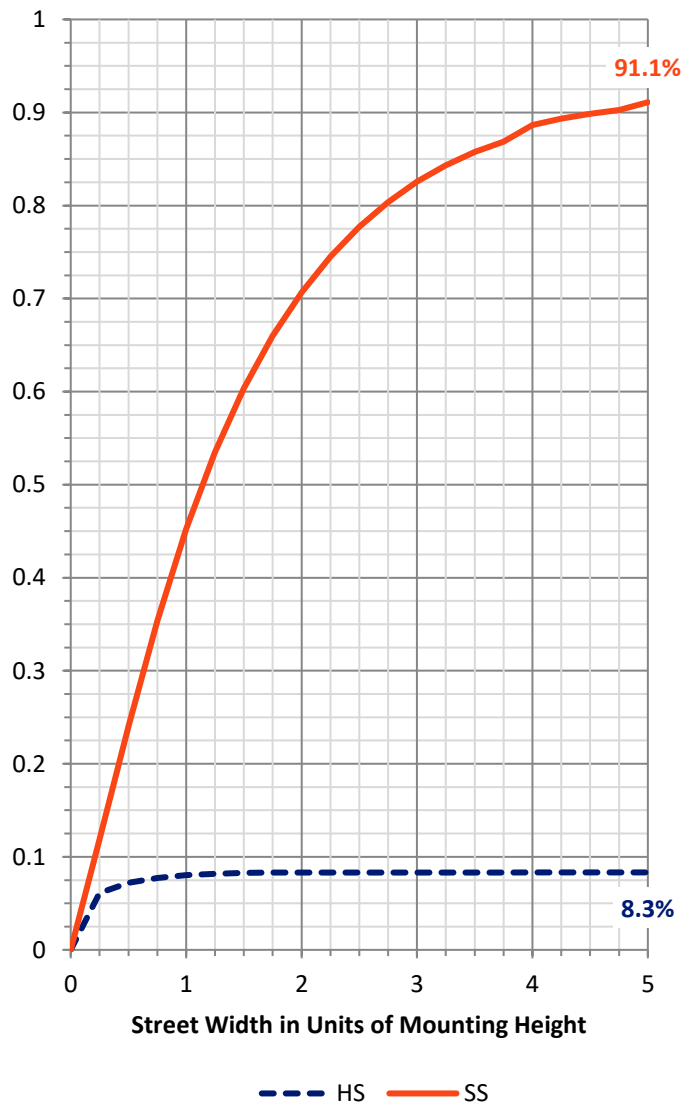
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	317.9	0.0	317.9
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	3478.0	0.0	3478.0
	% Fixture	91.6	0.0	91.6
Total	Lumens	3795.9	0.0	3795.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	60.1	1.6
10°-20°	147.1	3.9
20°-30°	235.8	6.2
30°-40°	356.1	9.4
40°-50°	541.9	14.3
50°-60°	762.9	20.1
60°-70°	931.9	24.6
70°-80°	676.7	17.8
80°-90°	83.3	2.2
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°	3795.9	100.0
0°-180°	3795.9	100.0

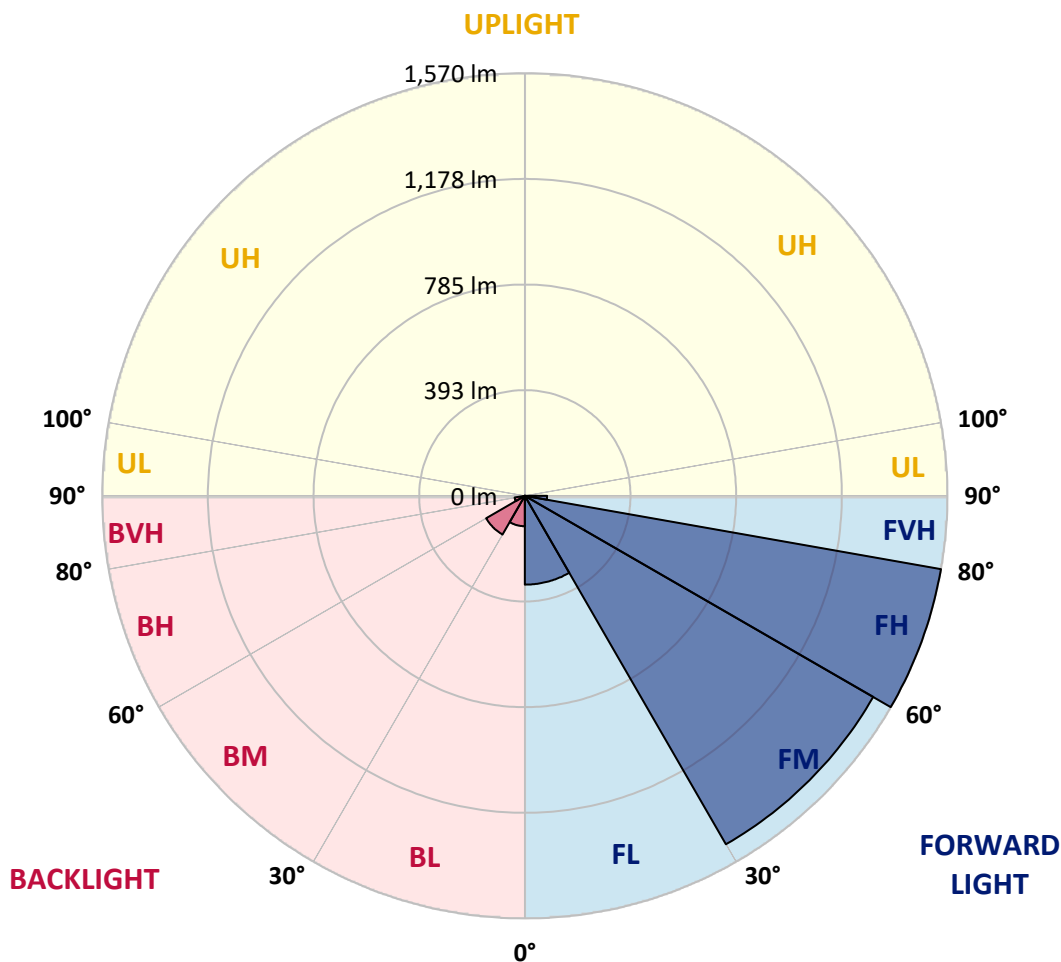


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	330.2	8.7			
FM (30°-60°)	1494.8	39.4			
FH (60°-80°)	1570.1	41.4			G1/1800
FVH (80°-90°)	82.9	2.2			G1/100
BL (0°-30°)	112.9	3.0	B1/500		
BM (30°-60°)	166.1	4.4	B0/220		
BH (60°-80°)	38.6	1.0	B0/110		G0/110
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-G1
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	686.4	686.4	686.4	686.4	686.4	686.4	686.4	686.4	686.4	686.4	686.4
2.5°	754.1	754.1	761.2	754.1	751.4	734.5	735.4	726.5	717.6	705.1	693.6
5°	763.0	769.2	773.7	767.5	757.7	759.5	765.7	748.8	724.7	709.6	683.8
7.5°	759.5	772.8	769.2	765.7	759.5	755.0	746.1	739.0	727.4	713.2	682.9
10°	756.8	761.2	762.1	759.5	746.1	758.6	748.8	737.2	722.9	706.0	668.6
12.5°	747.0	747.0	755.0	748.8	750.5	756.8	752.3	749.7	734.5	720.3	687.3
15°	736.3	739.9	752.3	762.1	771.0	768.4	765.7	757.7	744.3	728.3	693.6
17.5°	739.0	740.8	760.3	778.1	773.7	771.9	786.2	769.2	755.9	738.1	698.9
20°	748.8	754.1	776.4	799.5	804.0	804.0	798.6	788.8	770.1	746.1	708.7
22.5°	758.6	760.3	796.8	826.2	830.7	819.1	823.6	795.1	777.3	763.9	718.5
25°	796.0	792.4	831.6	854.7	852.0	840.5	836.0	811.1	804.0	779.9	739.9
27.5°	846.7	831.6	869.9	884.1	869.9	873.4	860.9	834.2	819.1	804.9	749.7
30°	877.9	886.8	907.2	921.5	897.5	898.3	892.1	862.7	839.6	843.1	782.6
32.5°	925.9	932.2	947.3	953.5	934.8	933.1	926.8	903.7	886.8	883.2	827.1
35°	977.6	989.2	990.0	991.8	974.9	982.0	973.1	940.2	949.1	955.3	880.5
37.5°	1028.3	1017.6	1035.5	1043.5	1024.8	1024.8	1027.4	1005.2	1021.2	1039.9	956.2
40°	1047.9	1052.4	1083.5	1077.3	1099.6	1086.2	1096.0	1090.7	1104.0	1146.7	1063.1
42.5°	1068.4	1073.7	1115.6	1127.2	1153.9	1158.3	1172.6	1173.5	1212.6	1283.0	1165.4
45°	1107.6	1098.7	1155.6	1184.1	1227.8	1240.2	1257.1	1271.4	1332.8	1415.6	1282.1
47.5°	1143.2	1130.7	1195.7	1252.7	1306.1	1308.8	1355.1	1370.2	1443.2	1537.6	1397.8
50°	1193.0	1197.5	1225.1	1323.0	1377.3	1408.5	1440.6	1490.4	1571.4	1672.0	1481.5
52.5°	1244.7	1240.2	1286.5	1382.7	1468.2	1479.7	1551.8	1607.9	1696.1	1771.8	1518.9
55°	1307.9	1313.2	1331.0	1457.5	1566.1	1593.7	1674.7	1733.5	1829.6	1814.5	1531.4
57.5°	1371.1	1365.8	1405.8	1541.2	1689.0	1709.4	1817.2	1851.9	1916.9	1843.0	1500.2
60°	1433.4	1443.2	1460.1	1635.5	1823.4	1853.7	1939.1	1956.9	1971.2	1856.3	1476.2
62.5°	1504.7	1481.5	1534.0	1735.3	1944.5	2007.7	2075.4	2005.0	1992.6	1832.3	1421.0
65°	1540.3	1547.4	1615.9	1849.2	2105.6	2151.9	2160.8	2070.0	2005.9	1778.9	1369.3
67.5°	1595.5	1605.3	1692.5	1965.8	2271.2	2297.1	2265.0	2128.8	1994.3	1709.4	1183.2
70°	1602.6	1626.6	1794.9	2087.8	2375.4	2397.7	2372.7	2168.0	1900.9	1436.1	876.1
72.5°	1565.2	1607.9	1819.8	2157.3	2462.7	2518.7	2379.0	2030.0	1532.3	916.2	448.7
75°	1182.4	1218.0	1665.8	2054.0	2307.7	2321.1	2088.7	1549.2	872.5	312.5	114.9
77.5°	612.5	674.0	1112.0	1569.7	1758.4	1744.2	1453.9	912.6	300.0	81.9	46.3
80°	351.7	366.8	486.1	881.4	1105.8	1051.5	804.0	393.5	131.8	41.0	30.3
82.5°	173.6	195.0	261.8	394.4	552.9	455.0	301.8	235.9	73.9	22.3	26.7
85°	37.4	39.2	133.5	188.8	224.4	147.8	103.3	198.5	26.7	13.4	25.8
87.5°	26.7	25.8	37.4	84.6	62.3	38.3	61.4	104.2	6.2	6.2	5.3
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°	686.4	686.4	686.4	686.4	686.4	686.4	686.4	686.4	686.4	686.4	686.4
2.5°	686.4	678.4	669.5	652.6	648.2	645.5	630.4	629.5	626.8	620.6	617.9
5°	667.7	654.4	637.5	619.7	605.4	579.6	548.4	532.4	512.8	513.7	507.5
7.5°	665.1	640.1	616.1	578.7	533.3	485.2	437.2	406.0	383.7	370.4	373.0
10°	652.6	633.9	594.7	525.3	452.3	379.3	317.8	271.6	244.8	224.4	230.6
12.5°	658.0	621.5	566.3	473.7	369.5	279.6	203.0	158.5	138.9	131.8	133.5
15°	654.4	621.5	549.3	417.6	290.2	189.6	131.8	117.5	114.0	114.0	112.2
17.5°	665.1	628.6	520.8	362.4	208.3	126.4	113.1	110.4	107.7	107.7	107.7
20°	680.2	632.1	501.3	300.9	146.9	111.3	105.9	104.2	103.3	103.3	102.4
22.5°	681.1	628.6	464.8	233.3	113.1	105.1	100.6	99.7	99.7	97.9	97.9
25°	686.4	632.1	425.6	175.4	105.1	98.8	95.3	94.4	95.3	94.4	93.5
27.5°	699.8	638.4	386.4	128.2	98.8	93.5	90.8	89.9	89.9	89.9	88.1
30°	716.7	638.4	342.8	105.9	93.5	88.1	85.5	84.6	83.7	83.7	83.7
32.5°	752.3	658.8	289.4	94.4	86.4	81.9	79.2	79.2	78.3	78.3	77.5
35°	796.8	673.1	235.0	87.3	80.1	75.7	73.0	73.0	72.1	72.1	71.2
37.5°	852.0	708.7	179.8	81.9	73.9	69.4	66.8	66.8	66.8	65.9	65.9
40°	930.4	745.2	133.5	74.8	67.7	63.2	61.4	60.5	59.7	59.7	57.9
42.5°	1014.1	801.3	99.7	69.4	62.3	58.8	56.1	53.4	53.4	50.7	50.7
45°	1104.9	850.3	81.0	63.2	57.0	52.5	49.9	48.1	45.4	43.6	43.6
47.5°	1193.9	880.5	71.2	56.1	51.6	48.1	45.4	41.8	38.3	37.4	36.5
50°	1266.1	889.4	63.2	50.7	47.2	43.6	40.1	35.6	32.1	30.3	29.4
52.5°	1266.1	840.5	57.0	45.4	42.7	39.2	34.7	29.4	24.9	23.1	22.3
55°	1266.1	763.0	50.7	41.8	38.3	35.6	29.4	24.0	19.6	16.9	16.0
57.5°	1247.4	669.5	45.4	37.4	33.8	30.3	24.9	18.7	14.2	11.6	11.6
60°	1195.7	571.6	39.2	32.9	29.4	24.9	19.6	13.4	8.9	6.2	6.2
62.5°	1129.8	455.0	33.8	27.6	24.0	20.5	15.1	8.9	3.6	1.8	1.8
65°	1015.0	335.7	29.4	23.1	18.7	15.1	9.8	3.6	0.0	0.0	0.0
67.5°	837.8	224.4	23.1	18.7	16.0	10.7	6.2	0.9	0.0	0.0	0.0
70°	589.4	127.3	17.8	13.4	11.6	7.1	1.8	0.0	0.0	0.0	0.0
72.5°	242.2	56.1	12.5	9.8	8.0	3.6	0.0	0.0	0.0	0.0	0.0
75°	65.9	24.9	8.0	5.3	4.5	0.9	0.0	0.0	0.0	0.0	0.0
77.5°	38.3	16.9	3.6	1.8	1.8	0.0	0.0	0.0	0.0	0.0	0.0
80°	30.3	8.0	1.8	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	30.3	4.5	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	25.8	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.6	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)