

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: P677206

Luminaire Tested: **CCW-SA-1C-840-U-SL4-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P677206
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1C-840-U-SL4-HSS
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @615mA w/
SL4 distribution lens and House Side Shield
Light Source: (16) 4000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

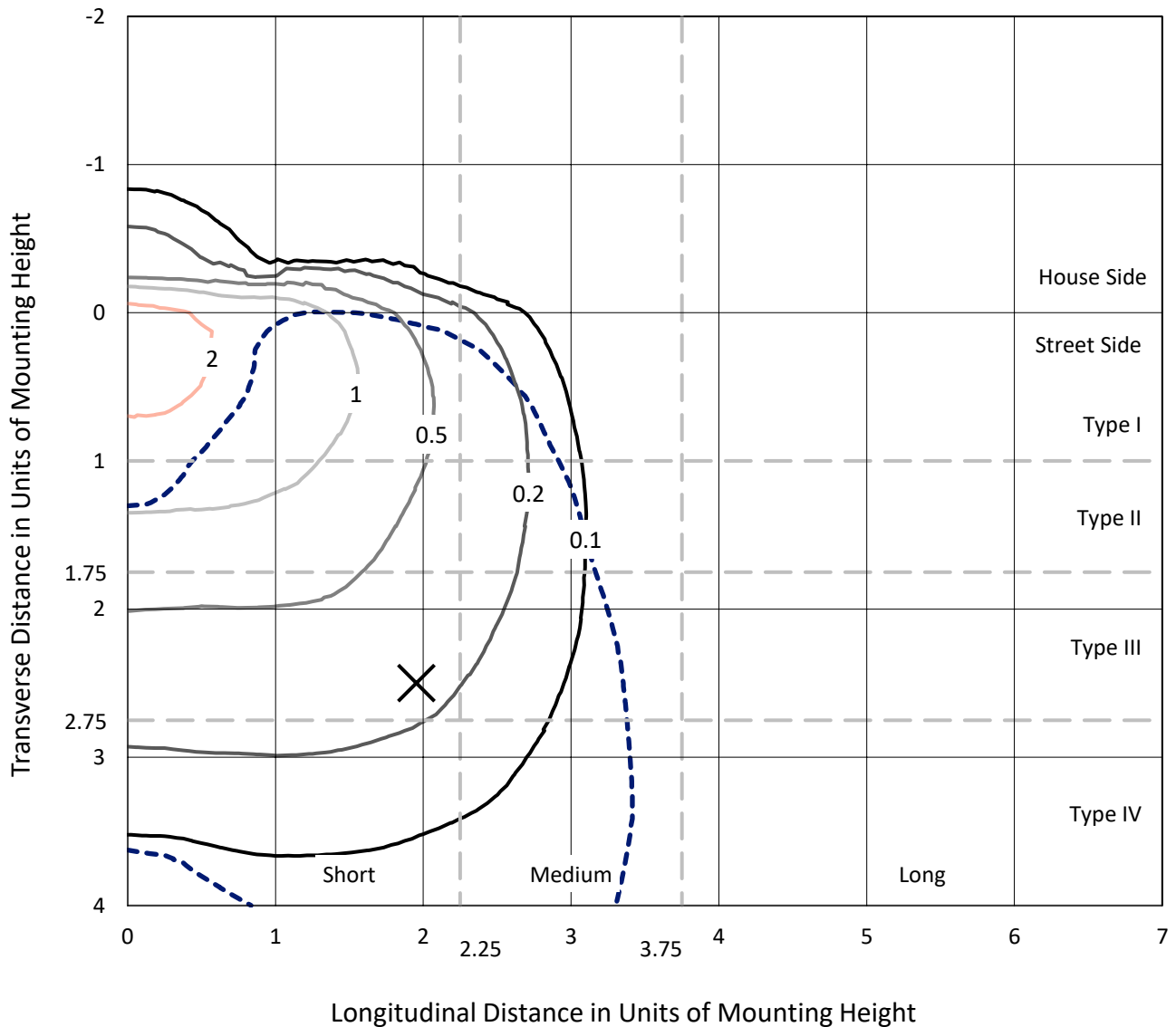
Lumens per Lamp: N/A
Luminaire Lumens: 3184.2 lumens
Efficiency: N/A
Efficacy: 99.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B0 - U0 - G1

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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Iso-Footcandle Lines of Horizontal Illumination

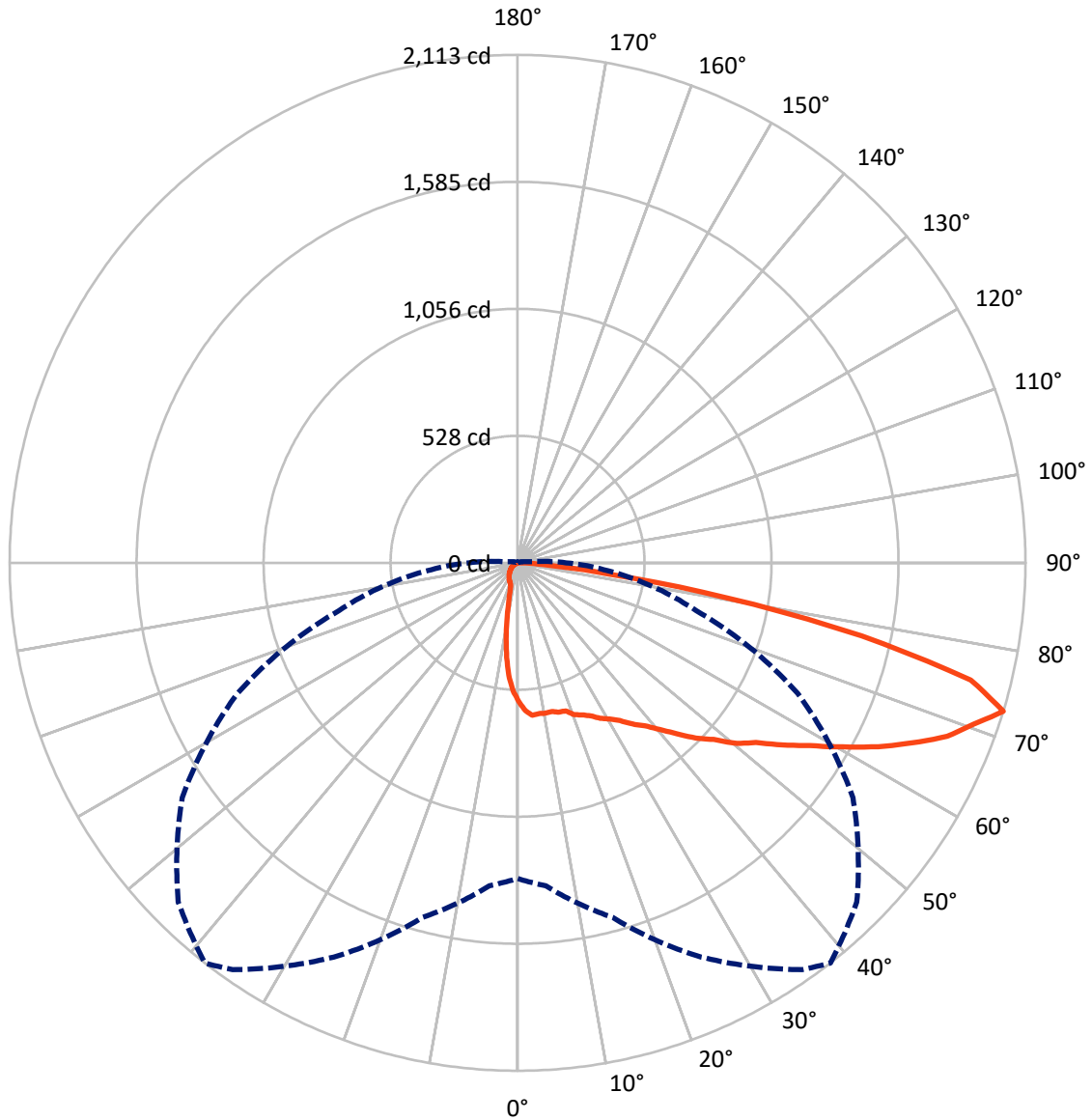
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 2.8 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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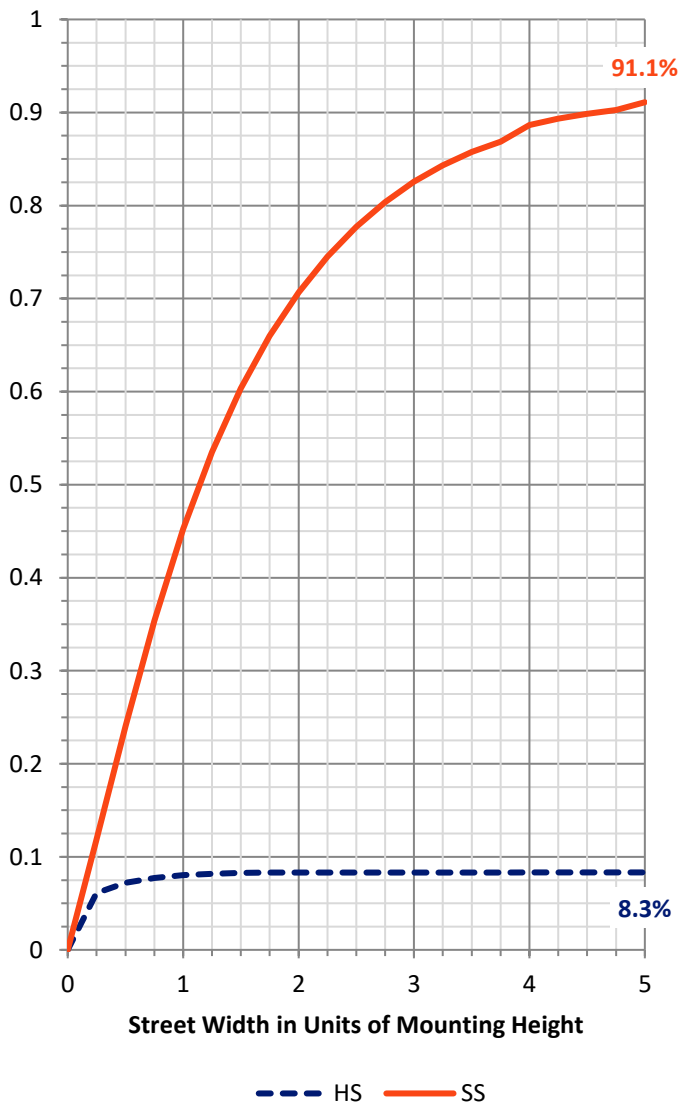
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	266.7	0.0	266.7
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	2917.5	0.0	2917.5
	% Fixture	91.6	0.0	91.6
Total	Lumens	3184.2	0.0	3184.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	50.4	1.6
10°-20°	123.4	3.9
20°-30°	197.8	6.2
30°-40°	298.7	9.4
40°-50°	454.6	14.3
50°-60°	640.0	20.1
60°-70°	781.7	24.6
70°-80°	567.7	17.8
80°-90°	69.9	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°	3184.2	100.0
0°-180°	3184.2	100.0

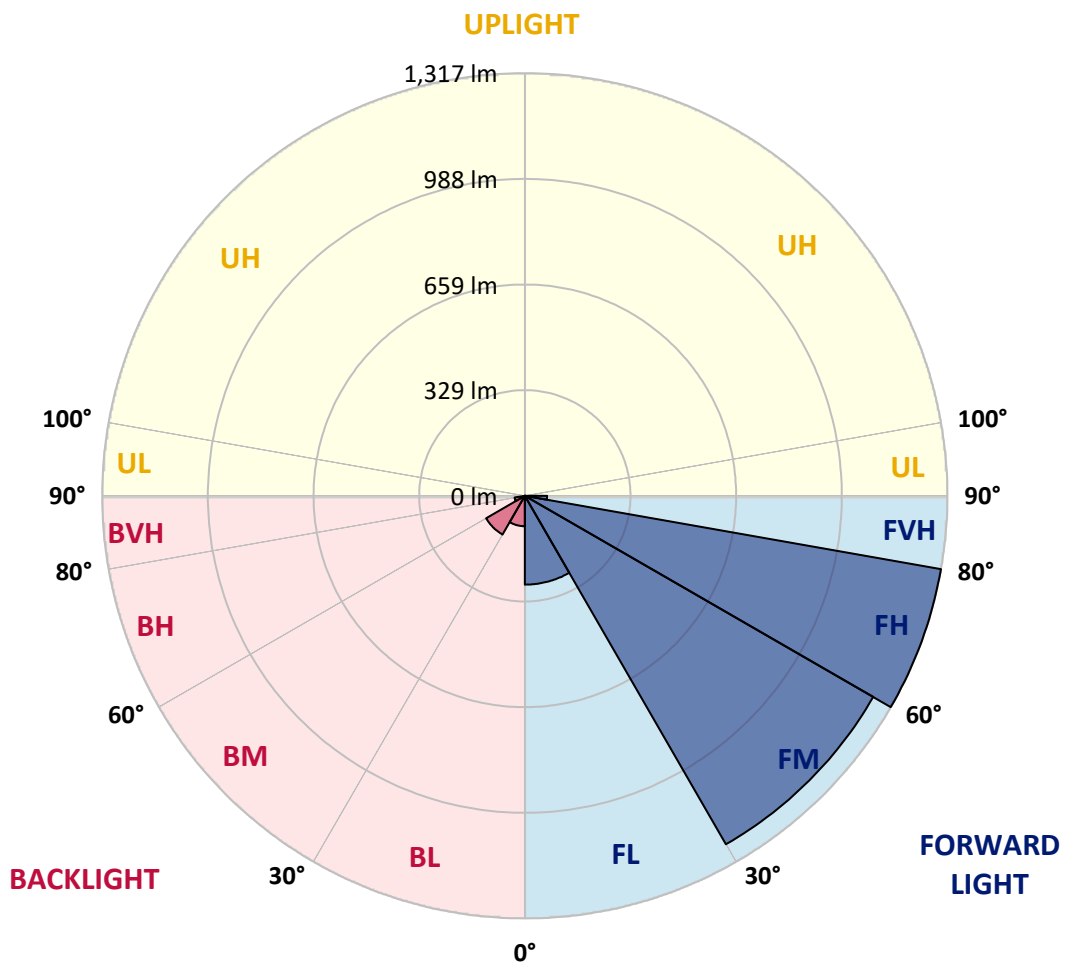


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	277.0	8.7			
FM (30°-60°)	1253.9	39.4			
FH (60°-80°)	1317.1	41.4			G1/1800
FVH (80°-90°)	69.5	2.2			G1/100
BL (0°-30°)	94.7	3.0	B0/110		
BM (30°-60°)	139.3	4.4	B0/220		
BH (60°-80°)	32.3	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: B0-U0-G1
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	575.8	575.8	575.8	575.8	575.8	575.8	575.8	575.8	575.8	575.8	575.8
2.5°	632.6	632.6	638.6	632.6	630.3	616.2	616.9	609.4	602.0	591.5	581.8
5°	640.1	645.3	649.0	643.8	635.6	637.1	642.3	628.1	607.9	595.2	573.6
7.5°	637.1	648.3	645.3	642.3	637.1	633.3	625.9	619.9	610.2	598.2	572.8
10°	634.8	638.6	639.3	637.1	625.9	636.3	628.1	618.4	606.4	592.3	560.9
12.5°	626.6	626.6	633.3	628.1	629.6	634.8	631.1	628.9	616.2	604.2	576.6
15°	617.6	620.6	631.1	639.3	646.8	644.5	642.3	635.6	624.4	610.9	581.8
17.5°	619.9	621.4	637.8	652.8	649.0	647.5	659.5	645.3	634.1	619.1	586.3
20°	628.1	632.6	651.3	670.7	674.4	674.4	669.9	661.7	646.0	625.9	594.5
22.5°	636.3	637.8	668.4	693.1	696.8	687.1	690.8	666.9	652.0	640.8	602.7
25°	667.7	664.7	697.6	717.0	714.7	705.0	701.3	680.4	674.4	654.2	620.6
27.5°	710.3	697.6	729.7	741.6	729.7	732.7	722.2	699.8	687.1	675.2	628.9
30°	736.4	743.9	761.0	773.0	752.8	753.6	748.3	723.7	704.3	707.3	656.5
32.5°	776.7	782.0	794.7	799.9	784.2	782.7	777.5	758.1	743.9	740.9	693.8
35°	820.0	829.8	830.5	832.0	817.8	823.8	816.3	788.7	796.1	801.4	738.6
37.5°	862.6	853.7	868.6	875.3	859.6	859.6	861.9	843.2	856.6	872.3	802.1
40°	879.0	882.8	908.9	903.7	922.4	911.2	919.4	914.9	926.1	962.0	891.7
42.5°	896.2	900.7	935.8	945.5	967.9	971.7	983.6	984.4	1017.2	1076.2	977.6
45°	929.1	921.6	969.4	993.3	1029.9	1040.4	1054.6	1066.5	1118.0	1187.5	1075.5
47.5°	959.0	948.5	1003.0	1050.8	1095.6	1097.9	1136.7	1149.4	1210.7	1289.8	1172.6
50°	1000.8	1004.5	1027.7	1109.8	1155.4	1181.5	1208.4	1250.2	1318.2	1402.6	1242.8
52.5°	1044.1	1040.4	1079.2	1159.9	1231.6	1241.3	1301.8	1348.8	1422.8	1486.2	1274.1
55°	1097.1	1101.6	1116.5	1222.6	1313.7	1336.9	1404.8	1454.1	1534.8	1522.1	1284.6
57.5°	1150.2	1145.7	1179.3	1292.8	1416.8	1434.0	1524.3	1553.5	1608.0	1546.0	1258.5
60°	1202.4	1210.7	1224.8	1372.0	1529.6	1555.0	1626.7	1641.6	1653.5	1557.2	1238.3
62.5°	1262.2	1242.8	1286.8	1455.6	1631.1	1684.2	1740.9	1681.9	1671.5	1537.0	1192.0
65°	1292.1	1298.0	1355.5	1551.2	1766.3	1805.2	1812.6	1736.4	1682.7	1492.2	1148.7
67.5°	1338.4	1346.6	1419.8	1649.1	1905.2	1926.9	1900.0	1785.7	1673.0	1434.0	992.6
70°	1344.3	1364.5	1505.7	1751.4	1992.6	2011.3	1990.4	1818.6	1594.5	1204.7	734.9
72.5°	1313.0	1348.8	1526.6	1809.6	2065.8	2112.9	1995.6	1702.8	1285.3	768.5	376.4
75°	991.8	1021.7	1397.4	1723.0	1935.9	1947.1	1752.1	1299.5	731.9	262.1	96.3
77.5°	513.8	565.4	932.8	1316.7	1475.0	1463.1	1219.6	765.5	251.7	68.7	38.8
80°	295.0	307.7	407.8	739.4	927.6	882.0	674.4	330.1	110.5	34.4	25.4
82.5°	145.6	163.6	219.6	330.9	463.8	381.6	253.2	197.9	62.0	18.7	22.4
85°	31.4	32.9	112.0	158.3	188.2	124.0	86.6	166.5	22.4	11.2	21.7
87.5°	22.4	21.7	31.4	71.0	52.3	32.1	51.5	87.4	5.2	5.2	4.5
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°	575.8	575.8	575.8	575.8	575.8	575.8	575.8	575.8	575.8	575.8	575.8
2.5°	575.8	569.1	561.6	547.4	543.7	541.5	528.8	528.0	525.8	520.6	518.3
5°	560.1	548.9	534.7	519.8	507.9	486.2	460.1	446.6	430.2	430.9	425.7
7.5°	557.9	537.0	516.8	485.5	447.4	407.0	366.7	340.6	321.9	310.7	312.9
10°	547.4	531.8	498.9	440.6	379.4	318.2	266.6	227.8	205.4	188.2	193.4
12.5°	551.9	521.3	475.0	397.3	309.9	234.5	170.3	132.9	116.5	110.5	112.0
15°	548.9	521.3	460.8	350.3	243.5	159.1	110.5	98.6	95.6	95.6	94.1
17.5°	557.9	527.3	436.9	304.0	174.8	106.1	94.9	92.6	90.4	90.4	90.4
20°	570.6	530.3	420.5	252.4	123.2	93.4	88.9	87.4	86.6	86.6	85.9
22.5°	571.3	527.3	389.9	195.7	94.9	88.1	84.4	83.6	83.6	82.2	82.2
25°	575.8	530.3	357.0	147.1	88.1	82.9	79.9	79.2	79.9	79.2	78.4
27.5°	587.0	535.5	324.1	107.5	82.9	78.4	76.2	75.4	75.4	75.4	73.9
30°	601.2	535.5	287.5	88.9	78.4	73.9	71.7	71.0	70.2	70.2	70.2
32.5°	631.1	552.7	242.7	79.2	72.4	68.7	66.5	66.5	65.7	65.7	65.0
35°	668.4	564.6	197.2	73.2	67.2	63.5	61.2	61.2	60.5	60.5	59.7
37.5°	714.7	594.5	150.9	68.7	62.0	58.3	56.0	56.0	56.0	55.3	55.3
40°	780.5	625.1	112.0	62.7	56.8	53.0	51.5	50.8	50.0	50.0	48.5
42.5°	850.7	672.2	83.6	58.3	52.3	49.3	47.1	44.8	44.8	42.6	42.6
45°	926.8	713.2	68.0	53.0	47.8	44.1	41.8	40.3	38.1	36.6	36.6
47.5°	1001.5	738.6	59.7	47.1	43.3	40.3	38.1	35.1	32.1	31.4	30.6
50°	1062.0	746.1	53.0	42.6	39.6	36.6	33.6	29.9	26.9	25.4	24.6
52.5°	1062.0	705.0	47.8	38.1	35.8	32.9	29.1	24.6	20.9	19.4	18.7
55°	1062.0	640.1	42.6	35.1	32.1	29.9	24.6	20.2	16.4	14.2	13.4
57.5°	1046.3	561.6	38.1	31.4	28.4	25.4	20.9	15.7	11.9	9.7	9.7
60°	1003.0	479.5	32.9	27.6	24.6	20.9	16.4	11.2	7.5	5.2	5.2
62.5°	947.8	381.6	28.4	23.2	20.2	17.2	12.7	7.5	3.0	1.5	1.5
65°	851.4	281.6	24.6	19.4	15.7	12.7	8.2	3.0	0.0	0.0	0.0
67.5°	702.8	188.2	19.4	15.7	13.4	9.0	5.2	0.7	0.0	0.0	0.0
70°	494.4	106.8	14.9	11.2	9.7	6.0	1.5	0.0	0.0	0.0	0.0
72.5°	203.1	47.1	10.5	8.2	6.7	3.0	0.0	0.0	0.0	0.0	0.0
75°	55.3	20.9	6.7	4.5	3.7	0.7	0.0	0.0	0.0	0.0	0.0
77.5°	32.1	14.2	3.0	1.5	1.5	0.0	0.0	0.0	0.0	0.0	0.0
80°	25.4	6.7	1.5	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	25.4	3.7	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	21.7	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.0	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)