

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: P677195

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

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P677195
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1C-835-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) 3500K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

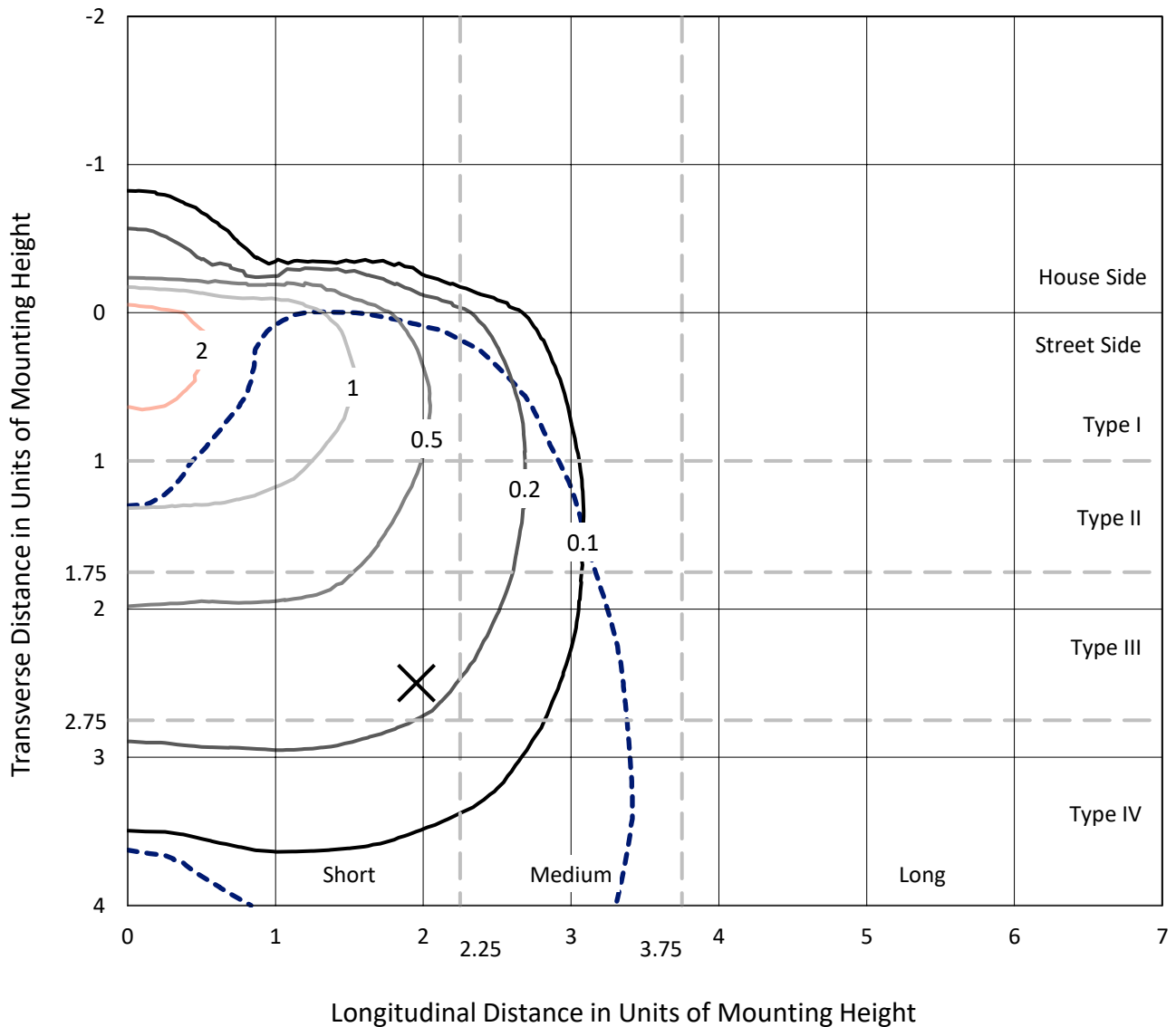
Lumens per Lamp: N/A
Luminaire Lumens: 3077.4 lumens
Efficiency: N/A
Efficacy: 96.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B0 - U0 - G1

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

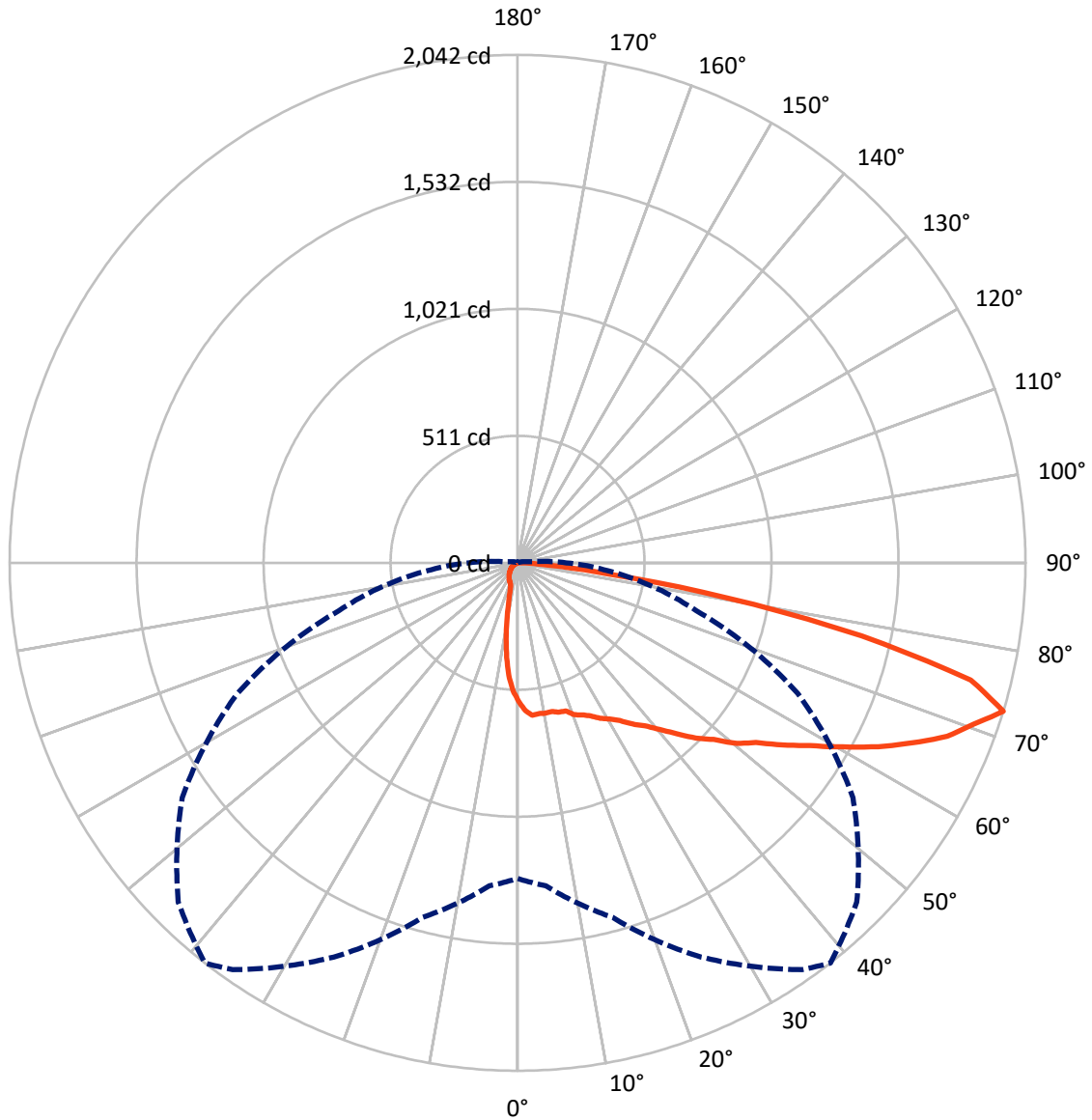
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 2.7 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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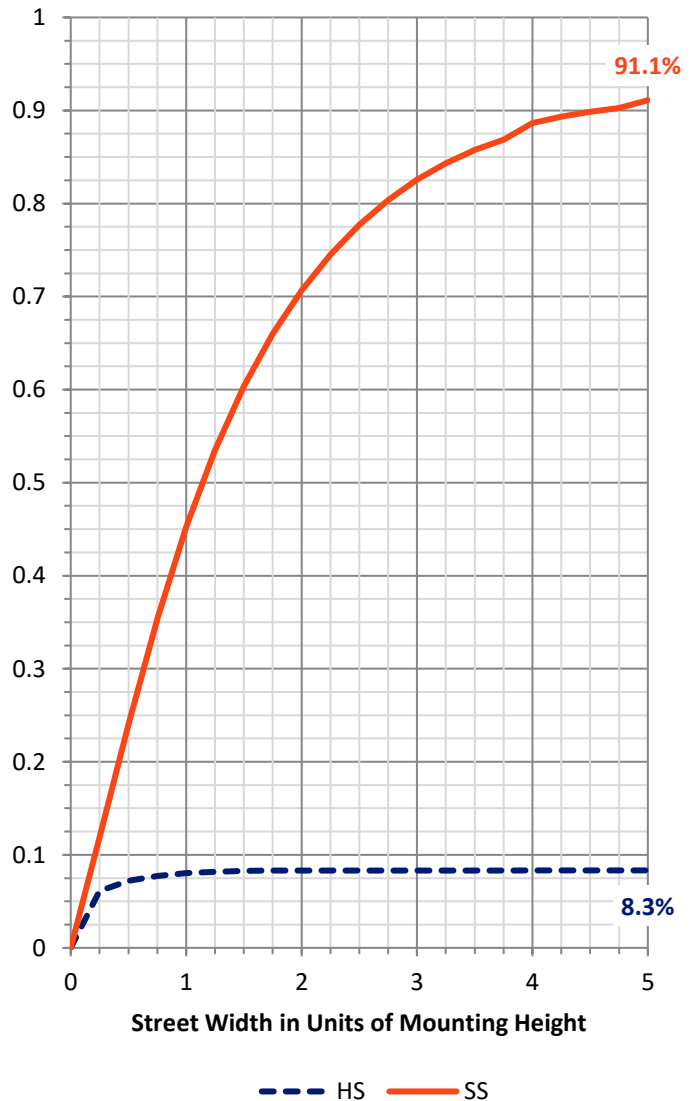
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	257.7	0.0	257.7
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	2819.6	0.0	2819.6
	% Fixture	91.6	0.0	91.6
Total	Lumens	3077.4	0.0	3077.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	48.7	1.6
10°-20°	119.3	3.9
20°-30°	191.2	6.2
30°-40°	288.7	9.4
40°-50°	439.3	14.3
50°-60°	618.5	20.1
60°-70°	755.5	24.6
70°-80°	548.6	17.8
80°-90°	67.6	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°	3077.4	100.0
0°-180°	3077.4	100.0

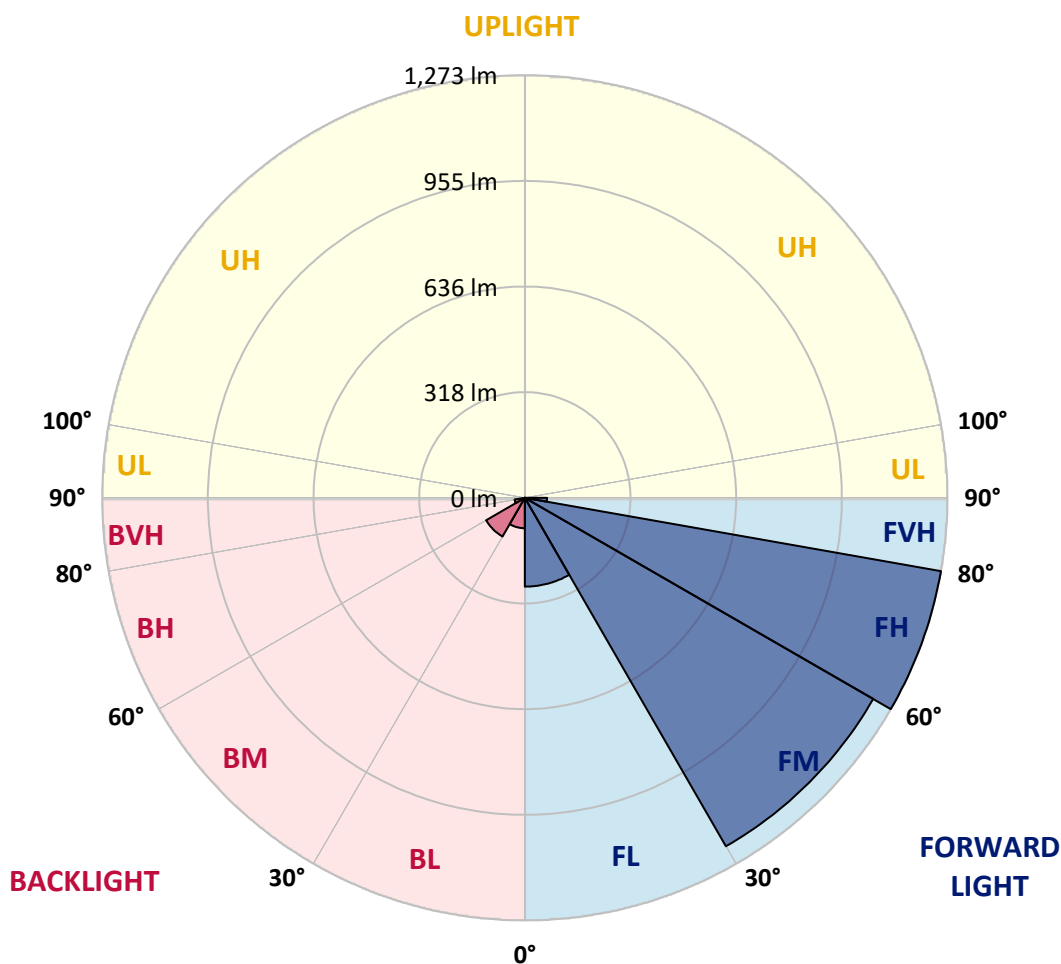


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	267.7	8.7			
FM (30°-60°)	1211.9	39.4			
FH (60°-80°)	1272.9	41.4			G1/1800
FVH (80°-90°)	67.2	2.2			G1/100
BL (0°-30°)	91.5	3.0	B0/110		
BM (30°-60°)	134.6	4.4	B0/220		
BH (60°-80°)	31.2	1.0	B0/110		G0/110
BVH (80°-90°)	0.3	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°	556.5	556.5	556.5	556.5	556.5	556.5	556.5	556.5	556.5	556.5	556.5
2.5°	611.4	611.4	617.1	611.4	609.2	595.5	596.2	589.0	581.8	571.7	562.3
5°	618.6	623.6	627.2	622.2	614.3	615.7	620.8	607.0	587.5	575.3	554.3
7.5°	615.7	626.5	623.6	620.8	615.7	612.1	604.9	599.1	589.7	578.2	553.6
10°	613.5	617.1	617.9	615.7	604.9	615.0	607.0	597.7	586.1	572.4	542.1
12.5°	605.6	605.6	612.1	607.0	608.5	613.5	609.9	607.8	595.5	583.9	557.2
15°	596.9	599.8	609.9	617.9	625.1	622.9	620.8	614.3	603.4	590.4	562.3
17.5°	599.1	600.5	616.4	630.9	627.2	625.8	637.4	623.6	612.8	598.4	566.6
20°	607.0	611.4	629.4	648.2	651.8	651.8	647.5	639.5	624.4	604.9	574.6
22.5°	615.0	616.4	646.0	669.8	673.4	664.1	667.7	644.6	630.1	619.3	582.5
25°	645.3	642.4	674.2	692.9	690.8	681.4	677.8	657.6	651.8	632.3	599.8
27.5°	686.4	674.2	705.2	716.8	705.2	708.1	698.0	676.3	664.1	652.5	607.8
30°	711.7	718.9	735.5	747.1	727.6	728.3	723.2	699.4	680.7	683.5	634.5
32.5°	750.7	755.7	768.0	773.1	757.9	756.4	751.4	732.6	718.9	716.0	670.6
35°	792.5	801.9	802.6	804.1	790.4	796.1	788.9	762.2	769.4	774.5	713.9
37.5°	833.7	825.0	839.5	846.0	830.8	830.8	833.0	814.9	827.9	843.1	775.2
40°	849.6	853.2	878.4	873.4	891.4	880.6	888.5	884.2	895.0	929.7	861.8
42.5°	866.2	870.5	904.4	913.8	935.5	939.1	950.6	951.3	983.1	1040.1	944.8
45°	897.9	890.7	936.9	960.0	995.4	1005.5	1019.2	1030.7	1080.5	1147.7	1039.4
47.5°	926.8	916.7	969.4	1015.6	1058.9	1061.1	1098.6	1110.9	1170.0	1246.6	1133.2
50°	967.2	970.8	993.2	1072.6	1116.6	1141.9	1167.9	1208.3	1274.0	1355.5	1201.1
52.5°	1009.1	1005.5	1043.0	1121.0	1190.3	1199.6	1258.1	1303.6	1375.0	1436.4	1231.4
55°	1060.3	1064.7	1079.1	1181.6	1269.7	1292.0	1357.7	1405.4	1483.3	1471.0	1241.5
57.5°	1111.6	1107.2	1139.7	1249.4	1369.3	1385.9	1473.2	1501.4	1554.0	1494.1	1216.2
60°	1162.1	1170.0	1183.8	1326.0	1478.3	1502.8	1572.1	1586.5	1598.1	1505.0	1196.7
62.5°	1219.8	1201.1	1243.7	1406.8	1576.4	1627.7	1682.5	1625.5	1615.4	1485.5	1152.0
65°	1248.7	1254.5	1310.1	1499.2	1707.1	1744.6	1751.8	1678.2	1626.2	1442.2	1110.1
67.5°	1293.5	1301.4	1372.1	1593.7	1841.3	1862.3	1836.3	1725.8	1616.8	1385.9	959.3
70°	1299.2	1318.7	1455.2	1692.6	1925.8	1943.8	1923.6	1757.6	1541.0	1164.3	710.3
72.5°	1268.9	1303.6	1475.4	1748.9	1996.5	2042.0	1928.7	1645.7	1242.2	742.7	363.8
75°	958.6	987.4	1350.5	1665.2	1870.9	1881.7	1693.4	1255.9	707.4	253.4	93.1
77.5°	496.6	546.4	901.5	1272.5	1425.6	1414.0	1178.7	739.8	243.2	66.4	37.5
80°	285.1	297.4	394.1	714.6	896.5	852.4	651.8	319.0	106.8	33.2	24.5
82.5°	140.8	158.1	212.2	319.8	448.2	368.8	244.7	191.3	59.9	18.0	21.7
85°	30.3	31.8	108.3	153.0	181.9	119.8	83.7	161.0	21.7	10.8	20.9
87.5°	21.7	20.9	30.3	68.6	50.5	31.0	49.8	84.5	5.1	5.1	4.3
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°	556.5	556.5	556.5	556.5	556.5	556.5	556.5	556.5	556.5	556.5	556.5
2.5°	556.5	550.0	542.8	529.1	525.5	523.3	511.0	510.3	508.1	503.1	500.9
5°	541.4	530.5	516.8	502.4	490.8	469.9	444.6	431.6	415.8	416.5	411.4
7.5°	539.2	519.0	499.5	469.2	432.4	393.4	354.4	329.1	311.1	300.3	302.4
10°	529.1	513.9	482.2	425.9	366.7	307.5	257.7	220.1	198.5	181.9	186.9
12.5°	533.4	503.8	459.1	384.0	299.5	226.6	164.6	128.5	112.6	106.8	108.3
15°	530.5	503.8	445.4	338.5	235.3	153.7	106.8	95.3	92.4	92.4	90.9
17.5°	539.2	509.6	422.3	293.8	168.9	102.5	91.7	89.5	87.3	87.3	87.3
20°	551.5	512.5	406.4	244.0	119.1	90.2	85.9	84.5	83.7	83.7	83.0
22.5°	552.2	509.6	376.8	189.1	91.7	85.2	81.6	80.8	80.8	79.4	79.4
25°	556.5	512.5	345.0	142.2	85.2	80.1	77.2	76.5	77.2	76.5	75.8
27.5°	567.3	517.5	313.3	103.9	80.1	75.8	73.6	72.9	72.9	72.9	71.5
30°	581.1	517.5	277.9	85.9	75.8	71.5	69.3	68.6	67.8	67.8	67.8
32.5°	609.9	534.1	234.6	76.5	70.0	66.4	64.2	64.2	63.5	63.5	62.8
35°	646.0	545.7	190.6	70.7	65.0	61.4	59.2	59.2	58.5	58.5	57.7
37.5°	690.8	574.6	145.8	66.4	59.9	56.3	54.1	54.1	54.1	53.4	53.4
40°	754.3	604.1	108.3	60.6	54.9	51.2	49.8	49.1	48.4	48.4	46.9
42.5°	822.1	649.6	80.8	56.3	50.5	47.6	45.5	43.3	43.3	41.1	41.1
45°	895.8	689.3	65.7	51.2	46.2	42.6	40.4	39.0	36.8	35.4	35.4
47.5°	967.9	713.9	57.7	45.5	41.9	39.0	36.8	33.9	31.0	30.3	29.6
50°	1026.4	721.1	51.2	41.1	38.3	35.4	32.5	28.9	26.0	24.5	23.8
52.5°	1026.4	681.4	46.2	36.8	34.6	31.8	28.2	23.8	20.2	18.8	18.0
55°	1026.4	618.6	41.1	33.9	31.0	28.9	23.8	19.5	15.9	13.7	13.0
57.5°	1011.2	542.8	36.8	30.3	27.4	24.5	20.2	15.2	11.5	9.4	9.4
60°	969.4	463.4	31.8	26.7	23.8	20.2	15.9	10.8	7.2	5.1	5.1
62.5°	916.0	368.8	27.4	22.4	19.5	16.6	12.3	7.2	2.9	1.4	1.4
65°	822.9	272.1	23.8	18.8	15.2	12.3	7.9	2.9	0.0	0.0	0.0
67.5°	679.2	181.9	18.8	15.2	13.0	8.7	5.1	0.7	0.0	0.0	0.0
70°	477.8	103.2	14.4	10.8	9.4	5.8	1.4	0.0	0.0	0.0	0.0
72.5°	196.3	45.5	10.1	7.9	6.5	2.9	0.0	0.0	0.0	0.0	0.0
75°	53.4	20.2	6.5	4.3	3.6	0.7	0.0	0.0	0.0	0.0	0.0
77.5°	31.0	13.7	2.9	1.4	1.4	0.0	0.0	0.0	0.0	0.0	0.0
80°	24.5	6.5	1.4	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	24.5	3.6	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	20.9	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.9	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)