

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: P676752

Luminaire Tested: **CCW-SA-1C-830-U-T4W-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P676752
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1C-830-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) 3000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

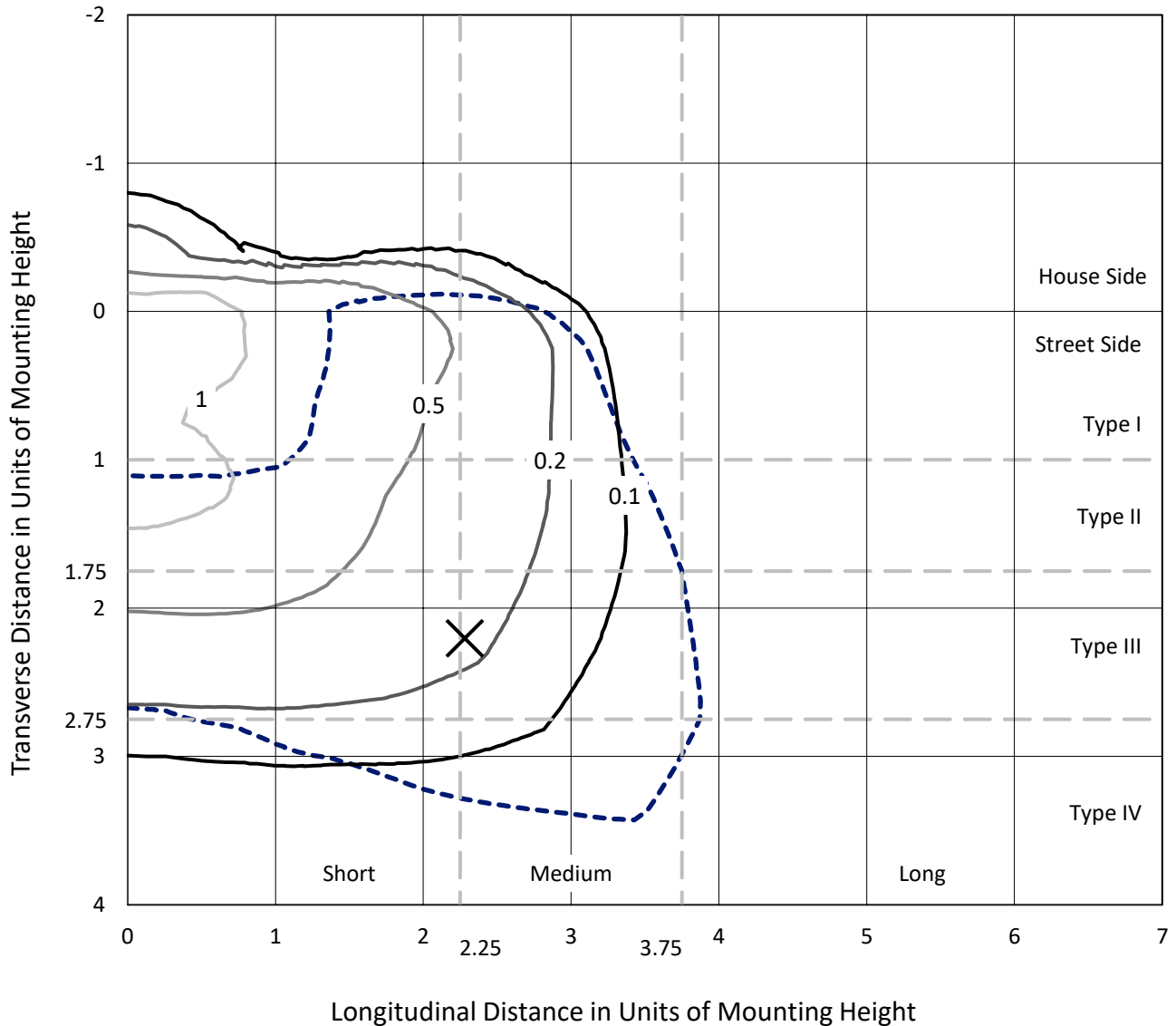
Lumens per Lamp: N/A
Luminaire Lumens: 2592 lumens
Efficiency: N/A
Efficacy: 81.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B0 - U0 - G1

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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Iso-Footcandle Lines of Horizontal Illumination

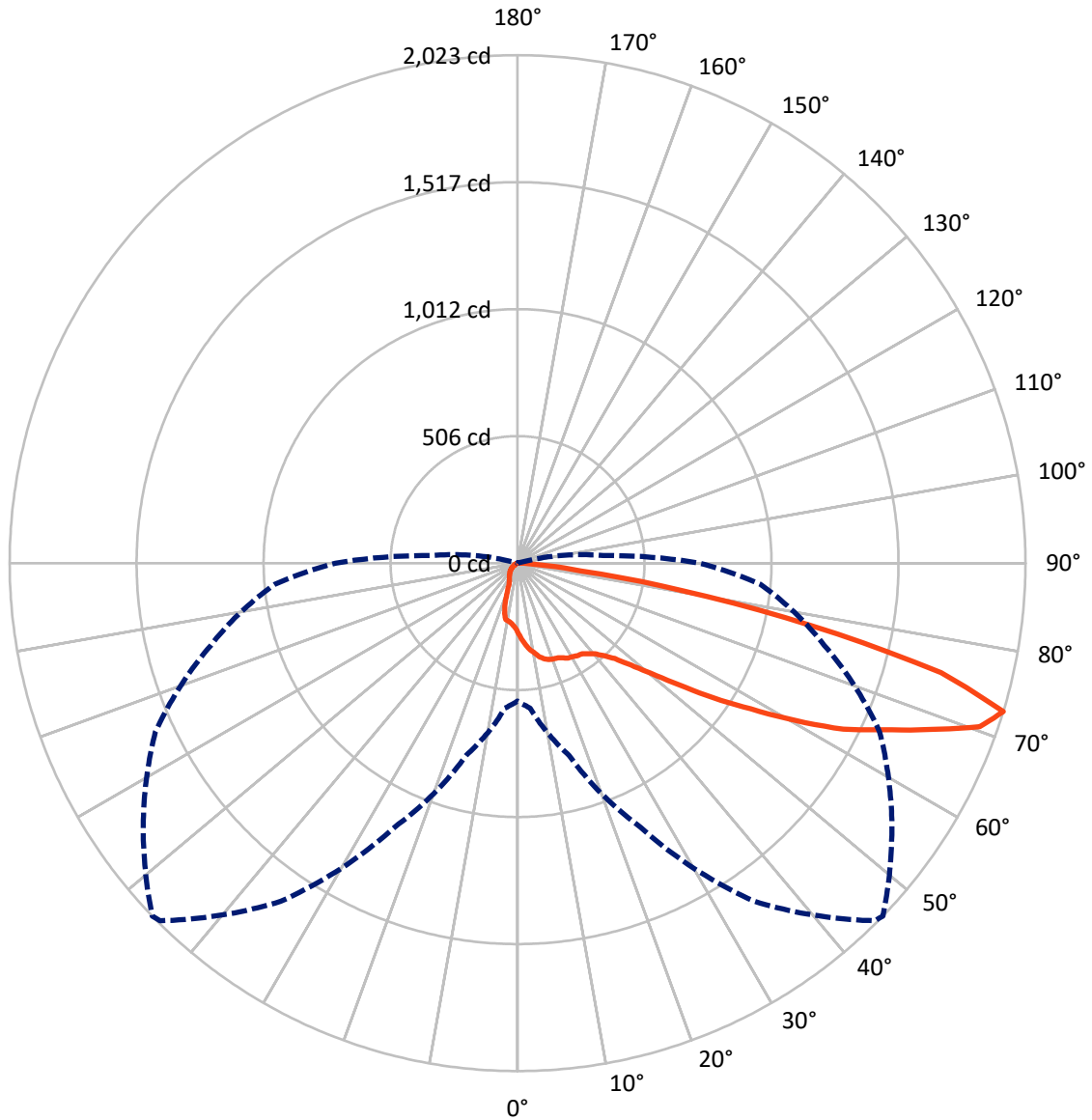
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 1.8 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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

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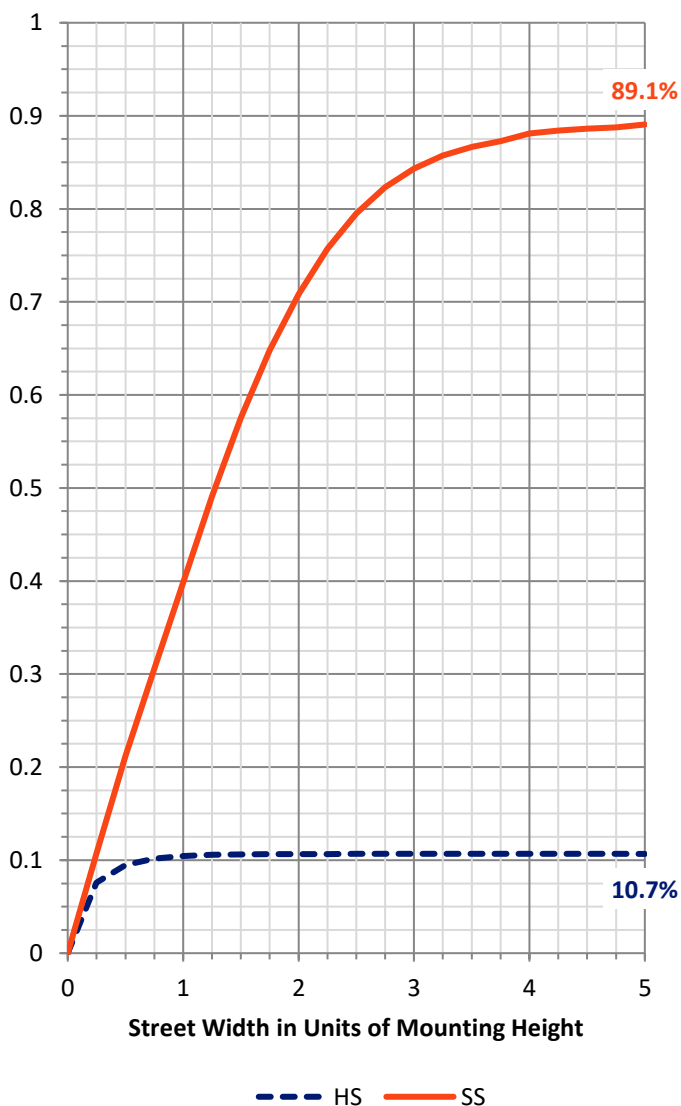
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	279.1	0.0	279.1
	% Fixture	10.8	0.0	10.8
Street Side	Lumens	2312.9	0.0	2312.9
	% Fixture	89.2	0.0	89.2
Total	Lumens	2592.0	0.0	2592.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	27.7	1.1
10°-20°	83.7	3.2
20°-30°	131.1	5.1
30°-40°	183.5	7.1
40°-50°	302.6	11.7
50°-60°	543.9	21.0
60°-70°	788.4	30.4
70°-80°	492.0	19.0
80°-90°	39.0	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°	2592.0	100.0
0°-180°	2592.0	100.0

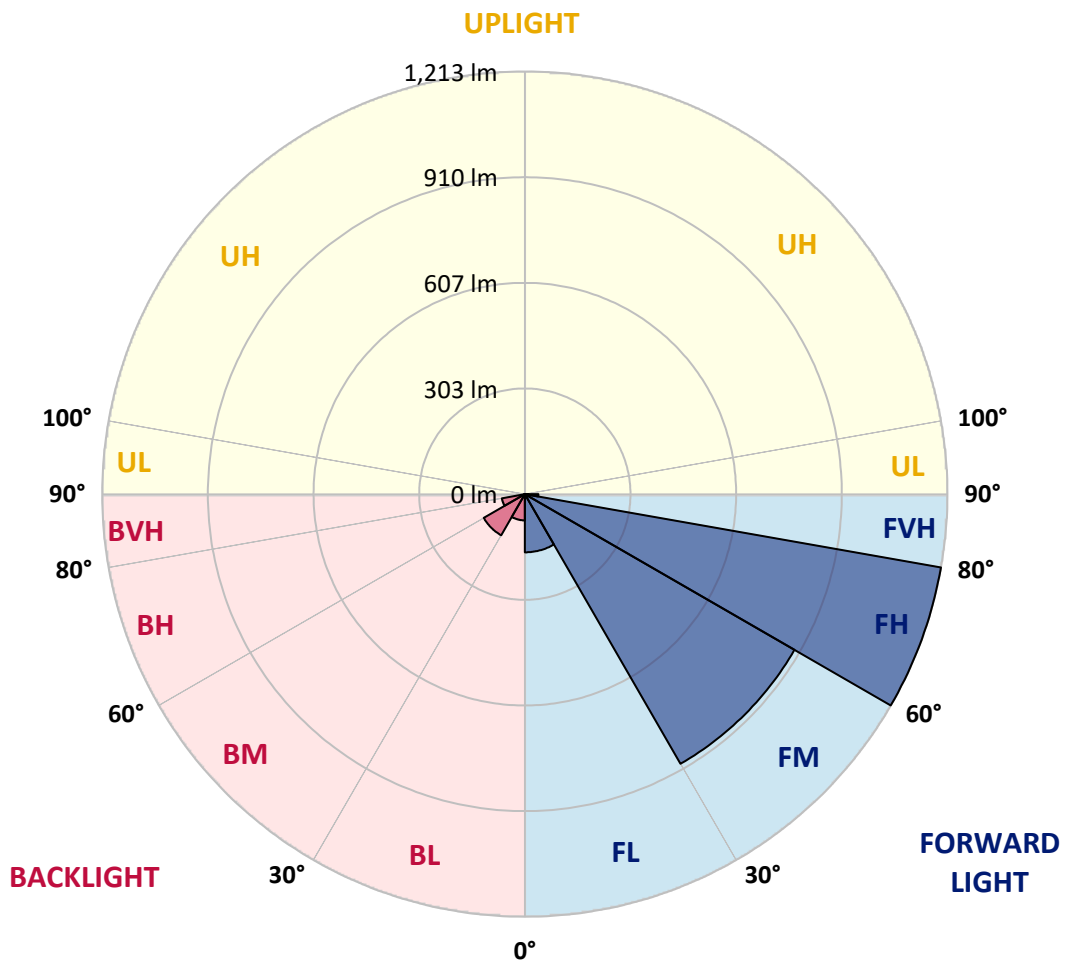


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	167.1	6.4			
FM (30°-60°)	893.8	34.5			
FH (60°-80°)	1213.3	46.8			G1/1800
FVH (80°-90°)	38.8	1.5			G1/100
BL (0°-30°)	75.4	2.9	B0/110		
BM (30°-60°)	136.3	5.3	B0/220		
BH (60°-80°)	67.1	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	277.0	277.0	277.0	277.0	277.0	277.0	277.0	277.0	277.0	277.0	277.0
2.5°	310.1	308.8	310.7	310.1	302.1	303.5	302.8	297.5	288.3	283.0	279.7
5°	345.8	349.1	346.4	340.5	335.9	326.6	325.3	316.7	302.1	292.9	283.0
7.5°	382.8	382.8	377.5	368.3	358.3	348.4	347.1	332.6	320.0	304.1	290.2
10°	410.6	407.3	403.3	393.4	382.1	368.9	362.3	351.7	337.8	318.7	300.8
12.5°	435.0	429.7	423.1	408.6	395.4	380.8	382.1	365.0	355.7	338.5	312.1
15°	448.9	444.3	438.3	425.1	404.6	398.0	395.4	384.8	368.3	351.1	325.9
17.5°	452.2	448.9	441.0	423.8	412.6	404.6	404.0	391.4	384.1	369.6	341.8
20°	445.6	439.7	433.7	422.5	411.9	409.2	407.3	407.3	398.0	378.8	351.7
22.5°	434.4	427.8	424.5	417.8	409.2	408.6	409.9	408.6	401.3	388.8	362.3
25°	425.8	422.5	417.2	415.2	409.9	419.8	417.8	415.9	413.9	399.3	378.8
27.5°	428.4	427.8	423.8	415.9	411.9	422.5	428.4	429.1	428.4	413.9	394.0
30°	429.7	426.4	422.5	420.5	421.8	432.4	432.4	446.9	441.0	426.4	409.2
32.5°	445.0	443.0	429.7	425.1	425.8	438.3	439.0	453.5	451.6	441.6	422.5
35°	477.3	464.1	445.0	431.7	431.7	448.3	443.0	464.1	469.4	453.5	431.7
37.5°	525.6	515.7	481.3	451.6	440.3	452.2	457.5	469.4	485.3	471.4	450.2
40°	621.5	619.5	570.6	506.4	462.1	472.7	474.7	493.2	503.8	484.6	478.7
42.5°	761.6	751.7	706.1	604.9	501.8	497.2	504.5	516.4	541.5	525.6	511.1
45°	898.5	893.9	848.3	735.2	573.9	546.1	542.1	563.3	600.3	583.1	571.9
47.5°	997.7	988.4	962.6	867.4	679.7	603.6	606.3	627.4	674.4	661.1	664.5
50°	1073.7	1069.1	1042.0	989.7	813.2	694.2	688.9	710.1	773.5	782.1	791.4
52.5°	1157.0	1165.6	1129.2	1084.9	971.2	815.9	804.0	811.2	893.2	913.0	938.8
55°	1237.0	1250.9	1214.5	1208.6	1136.5	950.7	948.7	931.6	1037.3	1040.0	1053.9
57.5°	1289.2	1284.6	1282.0	1314.4	1301.8	1105.4	1095.5	1078.3	1174.2	1157.0	1198.7
60°	1293.2	1306.4	1350.7	1430.7	1453.2	1287.3	1272.7	1225.8	1292.5	1251.5	1330.9
62.5°	1323.0	1333.5	1415.5	1525.9	1555.0	1447.2	1457.2	1338.2	1393.7	1361.3	1477.7
65°	1247.6	1280.6	1445.3	1600.0	1688.6	1609.2	1599.3	1483.0	1497.5	1467.1	1622.5
67.5°	1179.5	1192.0	1363.9	1622.5	1794.4	1771.9	1767.9	1611.2	1604.6	1548.4	1663.4
70°	958.7	973.9	1143.8	1507.4	1830.1	1961.6	1952.4	1791.0	1677.3	1504.1	1453.2
72.5°	549.4	579.8	792.7	1161.0	1644.3	2014.5	2023.1	1820.1	1591.4	1264.8	970.6
75°	179.8	188.4	329.3	657.8	1229.7	1757.3	1742.1	1564.3	1283.9	835.0	438.3
77.5°	60.8	62.1	97.2	238.0	681.6	1187.4	1196.0	1118.0	788.7	347.1	121.0
80°	31.1	33.1	47.6	89.3	280.3	646.6	660.5	637.3	330.6	102.5	29.1
82.5°	14.5	15.2	27.8	49.6	128.3	253.9	253.9	279.0	117.0	57.5	11.9
85°	5.3	5.3	14.5	28.4	54.2	84.6	85.3	85.9	61.5	43.0	5.3
87.5°	2.0	2.0	7.3	11.9	19.8	25.8	25.8	20.5	31.1	28.4	2.0
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°	277.0	277.0	277.0	277.0	277.0	277.0	277.0	277.0	277.0	277.0	277.0
2.5°	278.3	274.4	271.1	266.4	260.5	257.2	257.8	253.9	253.9	251.9	251.2
5°	278.3	274.4	265.8	257.8	252.6	245.9	242.6	240.0	240.0	238.7	239.3
7.5°	280.3	274.4	262.5	251.9	243.3	236.7	231.4	230.7	229.4	226.1	228.8
10°	292.2	283.6	263.8	249.3	239.3	232.1	222.8	220.2	216.2	210.2	210.9
12.5°	302.1	290.9	273.1	253.2	240.7	228.8	207.6	184.5	174.5	164.0	164.6
15°	316.7	300.8	276.4	258.5	240.7	202.3	164.0	134.2	118.3	110.4	110.4
17.5°	324.6	311.4	285.6	261.8	221.5	164.6	116.4	90.6	87.9	89.3	89.3
20°	341.2	323.3	296.2	264.5	189.7	117.0	85.3	82.6	84.0	86.6	85.9
22.5°	351.7	333.9	304.1	252.6	146.8	84.0	80.0	78.7	80.0	83.3	83.3
25°	360.3	349.1	316.7	223.5	103.8	76.0	74.7	76.0	77.4	78.7	80.7
27.5°	381.5	362.3	325.3	185.8	74.7	70.7	72.1	72.7	72.7	74.7	75.4
30°	395.4	380.2	331.9	143.5	66.1	65.5	66.8	67.4	68.1	70.1	70.7
32.5°	408.6	403.3	323.3	97.2	62.1	60.8	60.2	60.8	63.5	65.5	64.8
35°	427.8	424.5	310.7	67.4	58.2	55.5	54.2	54.9	56.9	58.8	58.2
37.5°	450.9	454.2	280.3	58.8	54.2	50.9	48.3	48.3	48.9	50.9	51.6
40°	478.0	486.6	244.6	54.9	51.6	47.6	45.0	41.7	41.0	40.3	41.0
42.5°	527.6	537.5	204.3	52.2	47.6	43.0	39.0	35.0	31.7	29.8	29.8
45°	597.0	589.1	151.4	49.6	45.6	39.0	33.1	28.4	23.8	21.8	21.8
47.5°	692.9	665.8	103.8	46.9	42.3	34.4	27.8	21.8	17.9	15.9	15.9
50°	825.8	736.5	67.4	44.3	40.3	29.8	22.5	15.9	13.2	12.6	13.2
52.5°	951.4	808.6	53.6	41.0	36.4	25.8	17.2	13.2	11.9	11.2	11.2
55°	1067.1	844.9	47.6	37.7	33.1	21.2	14.5	11.2	10.6	9.9	9.9
57.5°	1164.9	857.5	41.0	33.1	26.4	16.5	11.9	9.9	8.6	7.9	7.9
60°	1249.6	860.8	31.7	26.4	19.2	12.6	9.9	8.6	7.3	6.0	6.0
62.5°	1317.0	837.7	22.5	18.5	13.2	9.9	8.6	6.0	4.0	2.6	2.0
65°	1370.6	791.4	15.2	12.6	8.6	7.3	5.3	2.6	0.7	0.0	0.0
67.5°	1307.7	686.3	11.9	9.3	6.0	4.6	2.6	0.7	0.0	0.0	0.0
70°	1066.4	532.2	8.6	6.0	4.0	1.3	0.7	0.0	0.0	0.0	0.0
72.5°	725.9	343.1	6.6	4.0	2.0	0.7	0.0	0.0	0.0	0.0	0.0
75°	325.9	123.0	4.6	2.6	0.7	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	79.3	29.1	3.3	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	21.2	7.3	2.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	7.9	2.6	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	3.3	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.3	0.7	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)