

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: P676890

Luminaire Tested: **CCW-SA-2B-827-U-SL2-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P676890
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-2B-827-U-SL2-HSS
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @450mA w/
SL2 distribution lens and House Side Shield
Light Source: (32) 2700K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

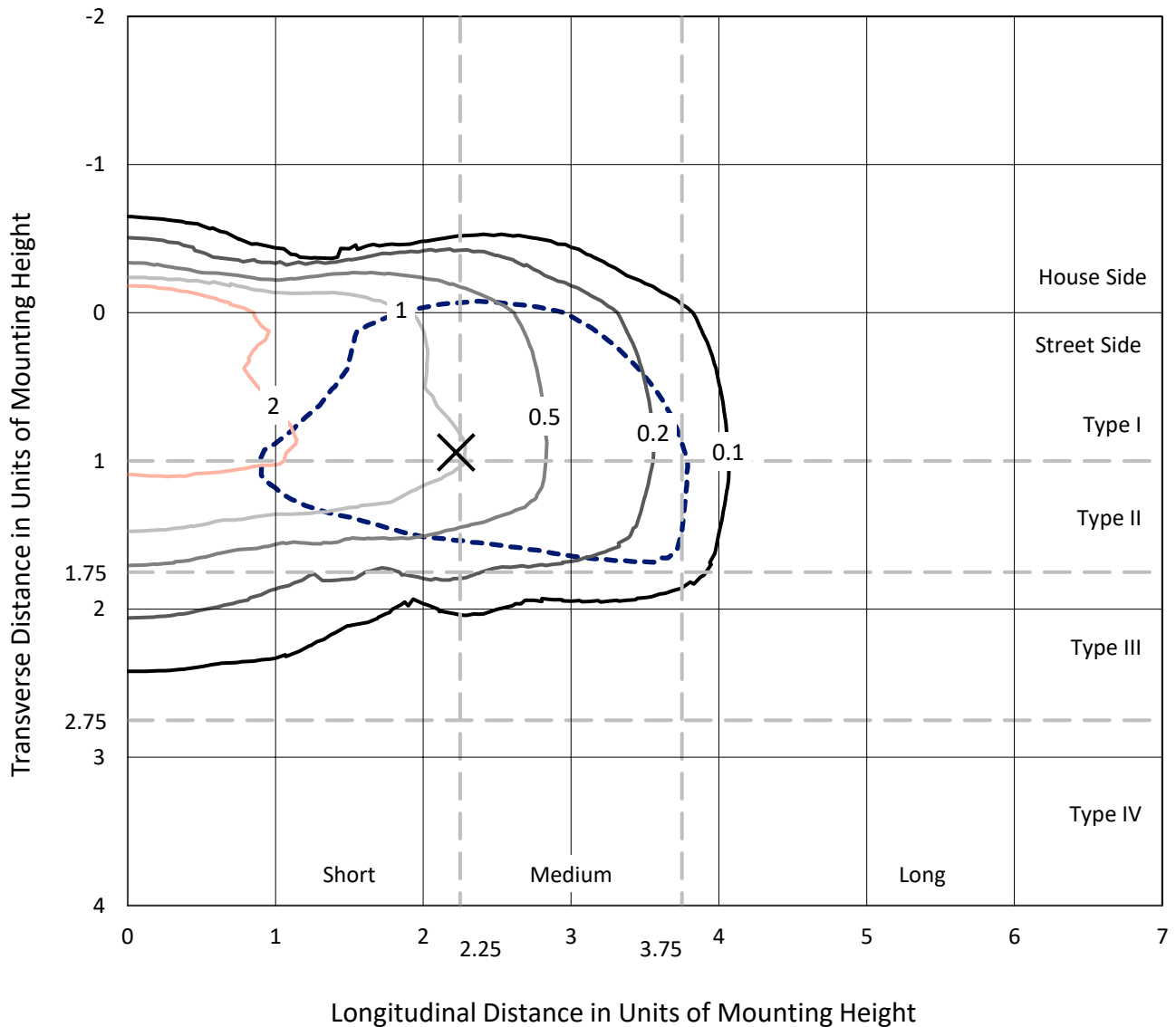
Lumens per Lamp: N/A
Luminaire Lumens: 4082.5 lumens
Efficiency: N/A
Efficacy: 88.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 46
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

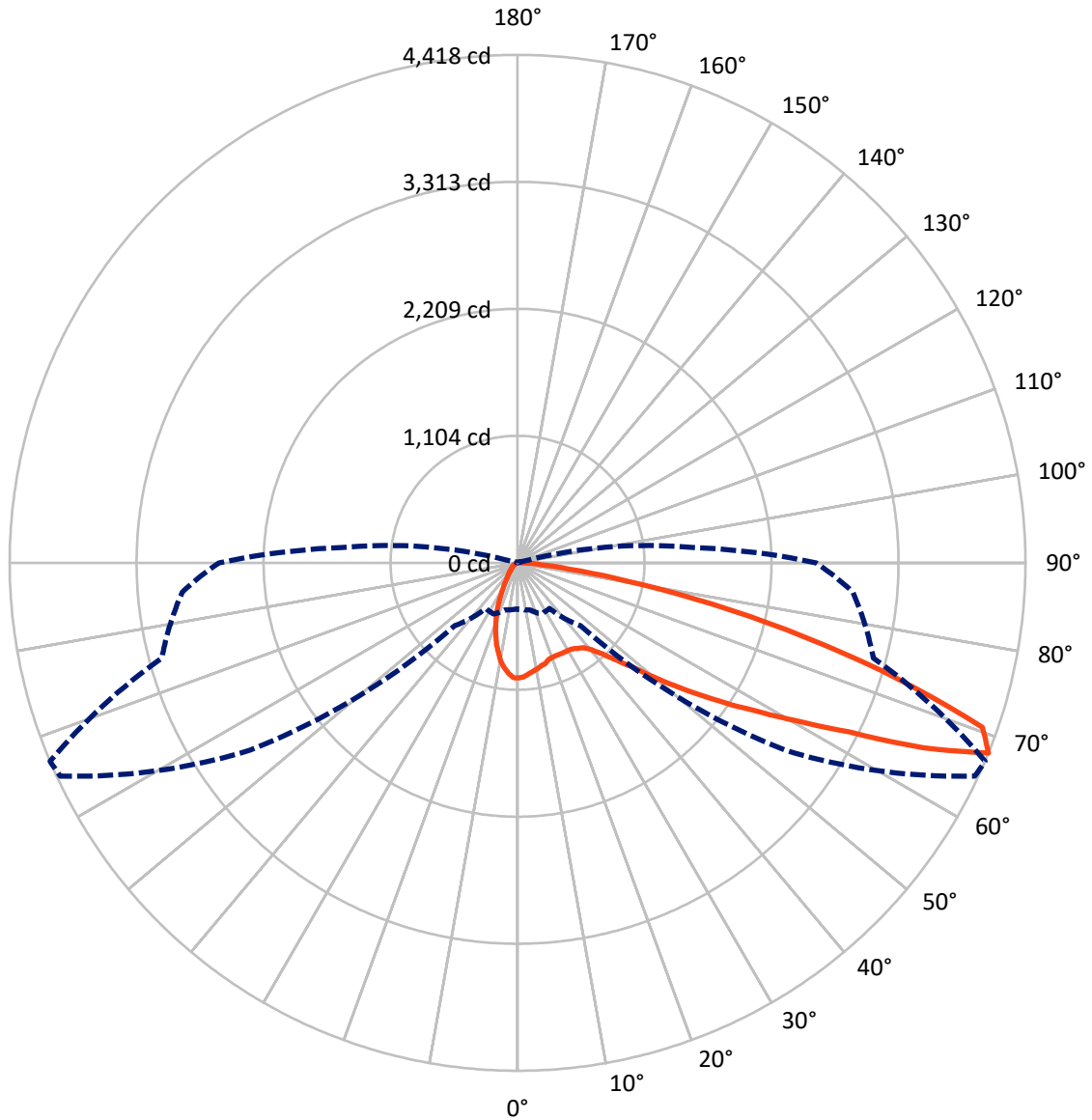
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 4.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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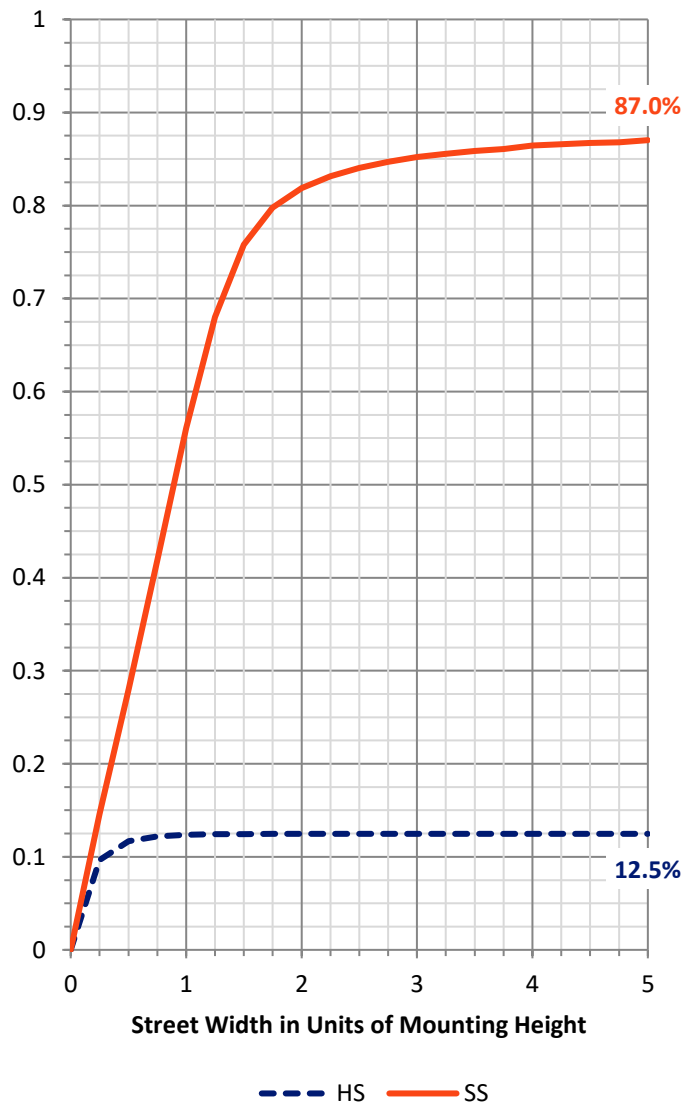
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	513.8	0.0	513.8
	% Fixture	12.6	0.0	12.6
Street Side	Lumens	3568.7	0.0	3568.7
	% Fixture	87.4	0.0	87.4
Total	Lumens	4082.5	0.0	4082.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.4	2.1
10°-20°	187.4	4.6
20°-30°	266.5	6.5
30°-40°	388.1	9.5
40°-50°	600.6	14.7
50°-60°	921.8	22.6
60°-70°	999.2	24.5
70°-80°	563.7	13.8
80°-90°	70.8	1.7
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°	4082.5	100.0
0°-180°	4082.5	100.0

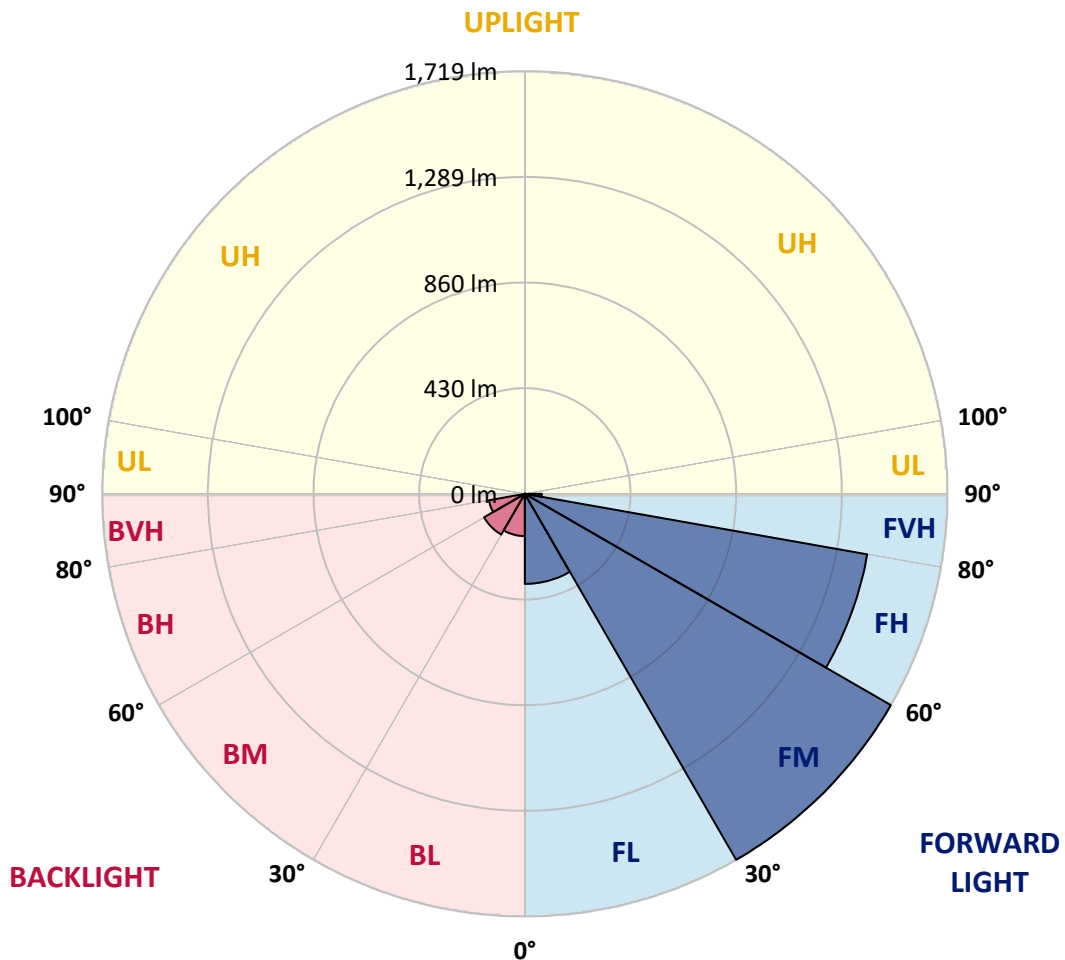


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	366.3	9.0			
FM (30°-60°)	1719.1	42.1			
FH (60°-80°)	1414.5	34.6			G1/1800
FVH (80°-90°)	68.8	1.7			G1/100
BL (0°-30°)	172.0	4.2	B1/500		
BM (30°-60°)	191.4	4.7	B0/220		
BH (60°-80°)	148.4	3.6	B1/500		G1/500
BVH (80°-90°)	2.0	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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	1001.4	1001.4	1001.4	1001.4	1001.4	1001.4	1001.4	1001.4	1001.4	1001.4	1001.4
2.5°	958.1	963.0	969.9	979.7	986.6	982.7	985.6	1002.3	993.5	1001.4	997.4
5°	905.0	909.9	919.7	918.7	926.6	941.4	961.0	982.7	972.8	996.4	1005.3
7.5°	849.9	847.9	847.9	868.6	885.3	905.9	916.8	952.2	953.2	973.8	995.5
10°	799.7	805.6	815.5	823.3	839.1	868.6	900.0	927.6	938.4	979.7	985.6
12.5°	769.2	772.2	784.0	790.9	811.5	840.0	873.5	908.9	917.8	960.0	988.6
15°	756.4	763.3	767.3	780.0	790.9	817.4	842.0	882.3	907.9	941.4	976.8
17.5°	766.3	763.3	765.3	769.2	782.0	805.6	832.2	872.5	881.4	937.4	990.5
20°	779.1	780.0	774.1	772.2	769.2	791.8	813.5	865.6	875.5	937.4	999.4
22.5°	813.5	802.7	813.5	797.7	782.0	791.8	812.5	866.6	873.5	936.4	1008.2
25°	855.8	857.7	860.7	827.3	804.6	797.7	819.4	869.6	875.5	944.3	1012.2
27.5°	915.8	924.6	909.9	893.2	847.9	813.5	818.4	867.6	878.4	940.4	1022.0
30°	996.4	989.6	991.5	953.2	908.9	854.8	841.0	872.5	880.4	945.3	1040.7
32.5°	1066.3	1058.4	1072.2	1058.4	988.6	913.8	867.6	882.3	891.2	957.1	1056.4
35°	1109.6	1119.4	1141.0	1155.8	1096.8	990.5	911.8	908.9	912.8	963.0	1068.3
37.5°	1176.5	1194.2	1211.9	1249.2	1198.1	1085.0	981.7	943.3	936.4	991.5	1074.2
40°	1249.2	1244.3	1296.5	1340.7	1338.8	1217.8	1079.1	1004.3	994.5	1036.8	1113.5
42.5°	1310.2	1305.3	1363.3	1436.1	1444.0	1345.6	1190.2	1090.9	1082.0	1106.6	1161.7
45°	1389.9	1393.8	1462.7	1549.3	1577.8	1514.8	1340.7	1214.8	1209.9	1202.0	1253.2
47.5°	1460.7	1482.4	1541.4	1643.7	1747.0	1689.9	1517.8	1395.8	1361.4	1343.7	1394.8
50°	1509.9	1529.6	1601.4	1710.6	1899.4	1935.8	1716.5	1588.6	1589.6	1546.3	1573.9
52.5°	1509.9	1508.9	1567.0	1710.6	2005.7	2192.6	1982.1	1831.6	1839.4	1794.2	1796.2
55°	1364.3	1361.4	1432.2	1584.7	1993.9	2439.5	2384.4	2139.5	2119.8	2032.2	2041.1
57.5°	1098.7	1105.6	1159.7	1342.7	1840.4	2554.6	2863.4	2485.7	2418.8	2237.8	2237.8
60°	801.7	795.8	836.1	964.0	1474.5	2511.3	3256.9	2893.9	2788.7	2408.0	2382.4
62.5°	609.9	608.9	619.7	663.0	935.5	2189.6	3426.1	3413.3	3242.1	2575.2	2538.8
65°	492.8	494.8	509.5	540.0	571.5	1493.2	3336.6	4033.0	3876.6	2824.1	2705.1
67.5°	402.3	407.2	424.9	490.8	484.0	773.2	2841.8	4388.1	4417.6	3203.8	2928.3
70°	309.9	317.7	338.4	431.8	466.3	514.5	1970.3	4211.0	4289.7	3439.8	2793.6
72.5°	210.5	209.5	253.8	350.2	471.2	471.2	1096.8	3391.6	3466.4	3171.3	2426.7
75°	114.1	121.0	168.2	264.6	431.8	455.4	624.6	2481.8	2587.0	2466.0	1876.8
77.5°	62.0	63.0	93.4	173.1	359.0	434.8	417.1	1688.0	1729.3	1487.3	1027.9
80°	32.5	33.4	49.2	113.1	247.9	403.3	347.2	1006.3	966.9	570.5	339.4
82.5°	14.8	15.7	24.6	70.8	158.4	317.7	300.0	485.9	448.5	159.4	103.3
85°	5.9	5.9	10.8	42.3	92.5	156.4	256.7	243.9	203.6	48.2	51.2
87.5°	2.0	2.0	3.0	16.7	37.4	93.4	136.7	128.9	88.5	17.7	27.5
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°	1001.4	1001.4	1001.4	1001.4	1001.4	1001.4	1001.4	1001.4	1001.4	1001.4	1001.4
2.5°	993.5	1004.3	1001.4	999.4	980.7	978.7	976.8	959.1	965.0	950.2	960.0
5°	999.4	1005.3	989.6	960.0	933.5	904.0	881.4	865.6	837.1	826.3	824.3
7.5°	993.5	993.5	961.0	913.8	861.7	813.5	752.5	709.2	676.8	652.2	661.0
10°	985.6	973.8	940.4	856.8	762.3	689.5	602.0	538.1	489.9	474.1	464.3
12.5°	985.6	965.0	890.2	776.1	654.1	544.0	439.7	356.1	309.9	282.3	278.4
15°	976.8	946.3	853.8	700.4	548.9	399.4	280.3	208.5	169.2	158.4	154.4
17.5°	978.7	942.3	799.7	610.9	425.9	265.6	171.2	131.8	122.0	117.1	118.0
20°	982.7	942.3	751.5	523.3	306.9	165.3	118.0	111.2	106.2	104.3	105.3
22.5°	995.5	923.7	702.3	433.8	207.6	119.0	104.3	97.4	93.4	90.5	89.5
25°	997.4	920.7	655.1	345.3	142.6	100.3	91.5	83.6	78.7	74.8	73.8
27.5°	994.5	907.9	589.2	256.7	107.2	89.5	77.7	69.8	63.0	60.0	59.0
30°	1005.3	884.3	533.1	184.9	90.5	77.7	65.9	57.1	51.2	47.2	47.2
32.5°	1006.3	863.7	471.2	131.8	82.6	68.9	56.1	46.2	40.3	38.4	38.4
35°	1007.3	845.0	402.3	100.3	73.8	59.0	46.2	38.4	34.4	31.5	31.5
37.5°	1010.2	831.2	339.4	84.6	65.9	50.2	38.4	31.5	27.5	26.6	26.6
40°	1016.1	812.5	273.5	74.8	57.1	42.3	32.5	26.6	22.6	21.6	20.7
42.5°	1031.9	807.6	218.4	66.9	51.2	35.4	26.6	21.6	18.7	16.7	15.7
45°	1096.8	820.4	169.2	62.0	43.3	29.5	22.6	17.7	13.8	12.8	11.8
47.5°	1203.0	862.7	133.8	55.1	36.4	24.6	18.7	13.8	10.8	9.8	8.9
50°	1364.3	959.1	109.2	49.2	30.5	20.7	14.8	10.8	7.9	6.9	6.9
52.5°	1575.8	1088.9	94.4	43.3	24.6	17.7	11.8	7.9	5.9	4.9	4.9
55°	1792.2	1242.4	88.5	37.4	20.7	14.8	8.9	5.9	3.9	3.0	3.0
57.5°	1990.9	1341.7	85.6	30.5	17.7	10.8	6.9	3.9	2.0	1.0	1.0
60°	2114.9	1414.5	76.7	24.6	13.8	8.9	4.9	2.0	1.0	0.0	0.0
62.5°	2278.1	1488.3	63.0	18.7	9.8	5.9	3.0	1.0	0.0	0.0	0.0
65°	2493.6	1570.9	49.2	14.8	7.9	3.9	2.0	1.0	0.0	0.0	0.0
67.5°	2596.9	1527.6	33.4	10.8	4.9	2.0	1.0	0.0	0.0	0.0	0.0
70°	2390.3	1286.6	23.6	7.9	3.0	1.0	1.0	0.0	0.0	0.0	0.0
72.5°	2009.6	1008.2	17.7	4.9	2.0	1.0	0.0	0.0	0.0	0.0	0.0
75°	1481.4	630.5	13.8	3.9	2.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	785.9	235.1	9.8	3.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	232.1	68.9	6.9	2.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	76.7	20.7	3.9	2.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	39.3	7.9	2.0	2.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	22.6	3.0	2.0	2.0	1.0	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)