

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: P675344

Luminaire Tested: **CCW-SA-1B-850-U-T4W**

Issue Date: 04/25/2023

Test Information

Test Method: LM-79-08
Report Number: P675344
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1B-850-U-T4W
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @450mA w/
T4W distribution lens
Light Source: (16) 5000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3040.2 lumens
Efficiency: N/A
Efficacy: 126.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B1 - U0 - G1

Input Watts (W): 24
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

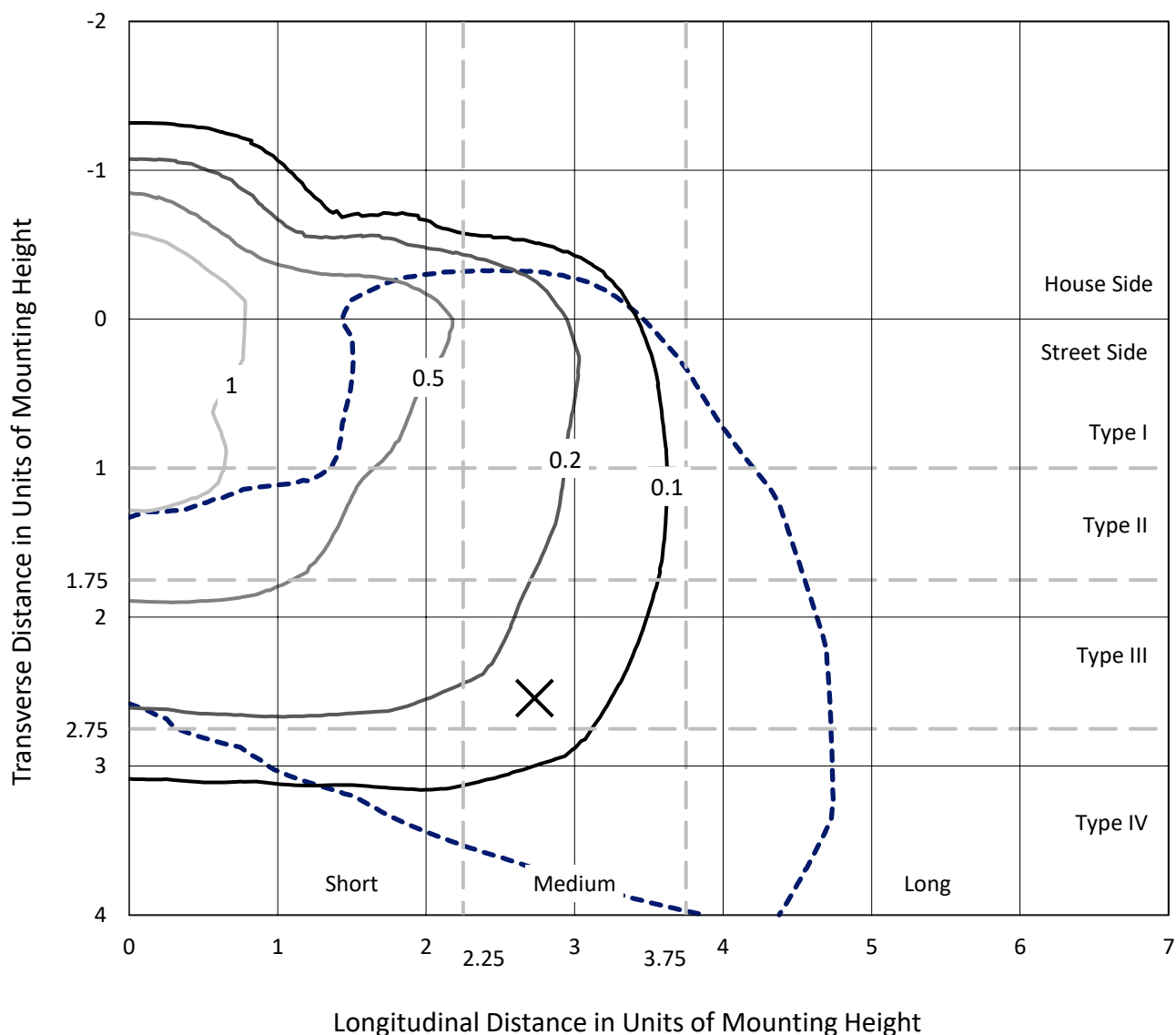
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

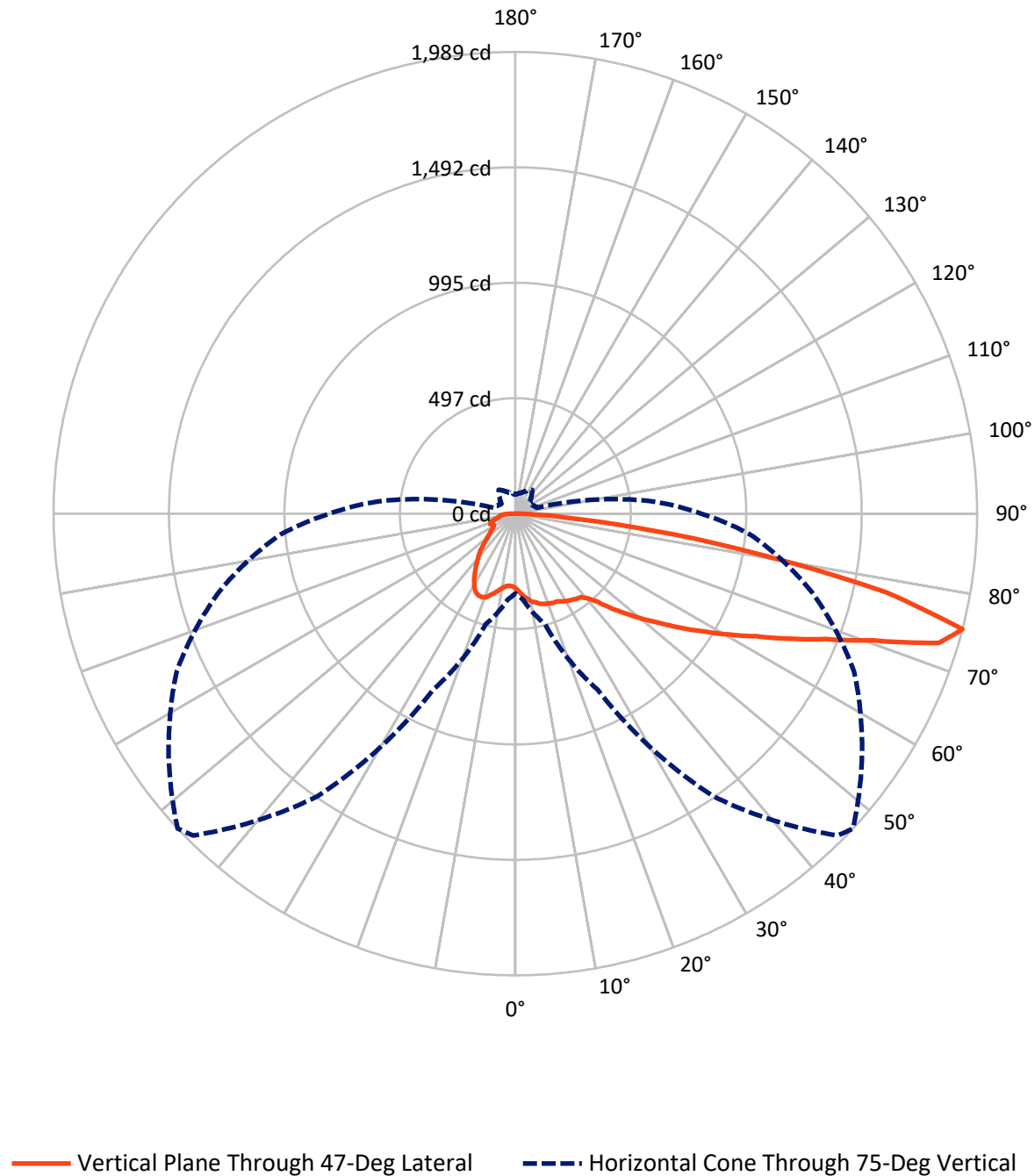
--- 1/2 Max cd



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



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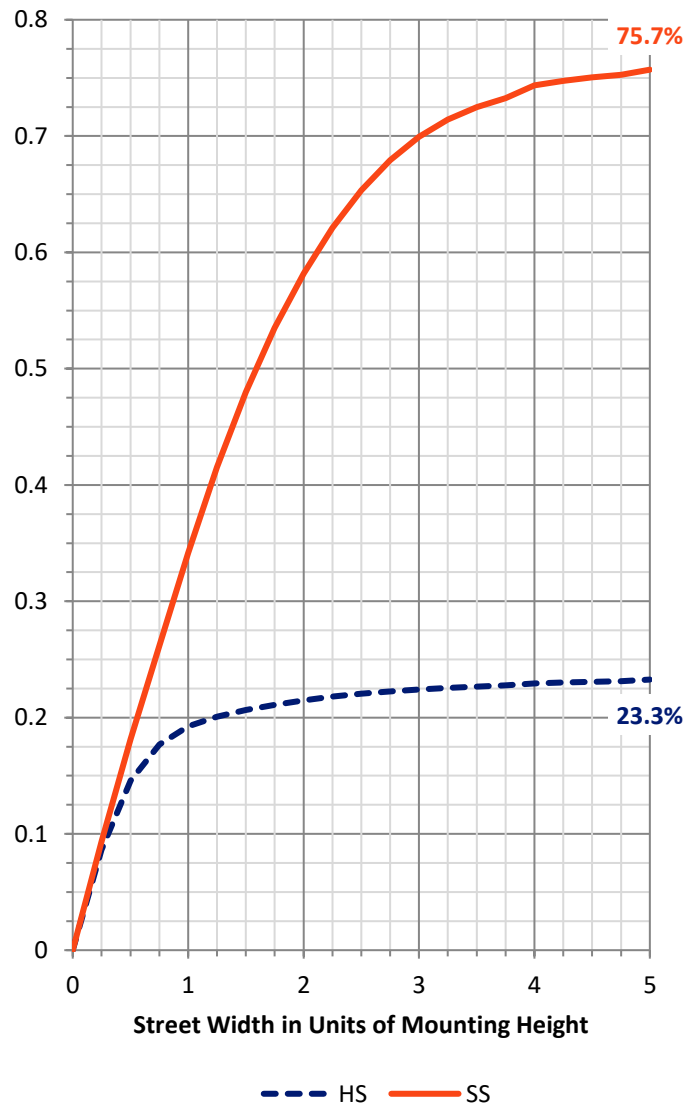
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	727.1	0.0	727.1
	% Fixture	23.9	0.0	23.9
Street Side	Lumens	2313.2	0.0	2313.2
	% Fixture	76.1	0.0	76.1
Total	Lumens	3040.2	0.0	3040.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	32.6	1.1
10°-20°	108.4	3.6
20°-30°	185.6	6.1
30°-40°	259.7	8.5
40°-50°	362.1	11.9
50°-60°	541.3	17.8
60°-70°	780.4	25.7
70°-80°	664.3	21.8
80°-90°	105.8	3.5
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°	3040.2	100.0
0°-180°	3040.2	100.0



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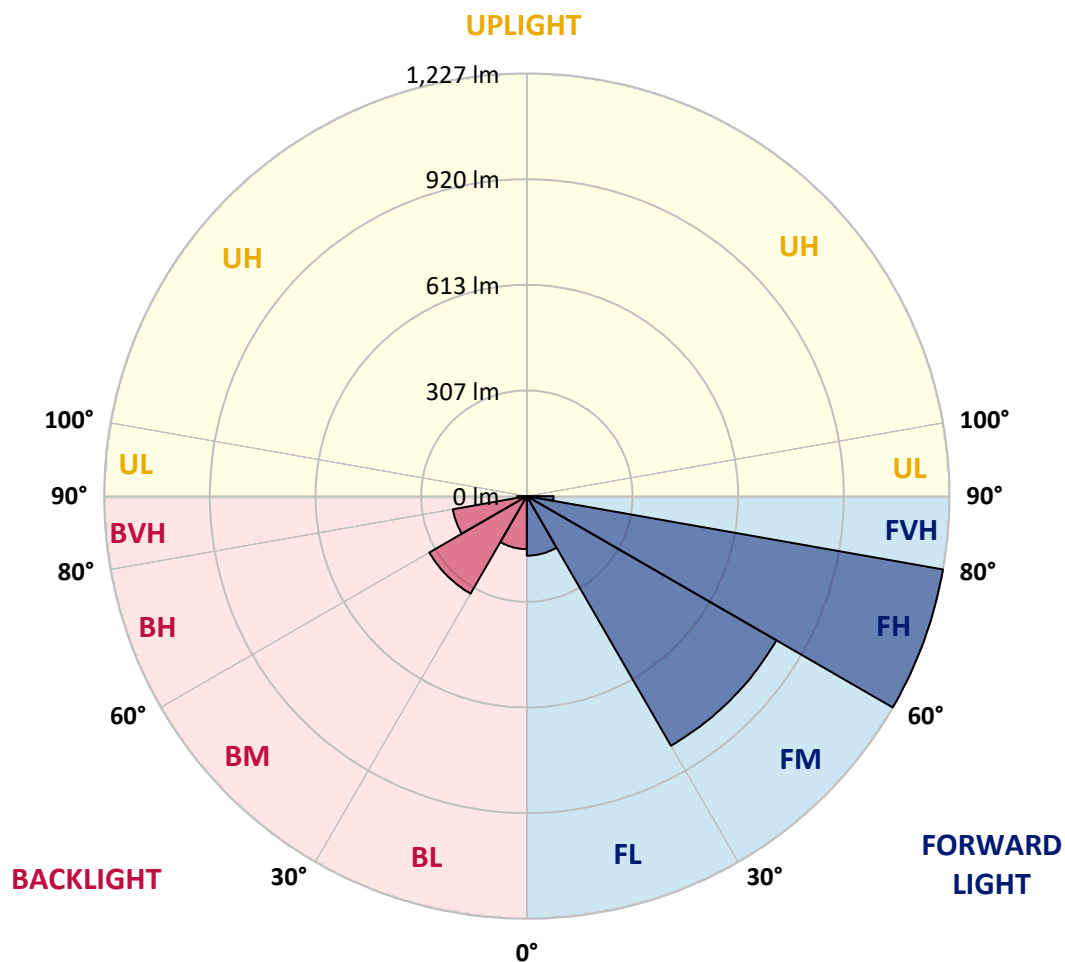
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	172.7	5.7			
FM	(30°-60°)	836.3	27.5			
FH	(60°-80°)	1226.5	40.3			G1/1800
FVH	(80°-90°)	77.5	2.6			G1/100
BL	(0°-30°)	153.9	5.1	B1/500		
BM	(30°-60°)	326.8	10.7	B1/1000		
BH	(60°-80°)	218.1	7.2	B1/500		G1/500
BVH	(80°-90°)	28.3	0.9			G1/100
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 Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	322.8	322.8	322.8	322.8	322.8	322.8	322.8	322.8	322.8	322.8	322.8
2.5°	346.1	347.2	347.2	345.0	342.8	338.3	338.3	333.9	331.7	326.1	323.9
5°	378.3	374.9	371.6	370.5	365.0	357.2	356.1	351.6	339.4	333.9	326.1
7.5°	401.6	400.5	399.3	394.9	384.9	372.7	369.4	362.7	350.5	339.4	330.6
10°	420.4	424.9	420.4	410.4	400.5	387.1	386.0	373.8	362.7	349.4	338.3
12.5°	441.5	442.6	434.8	422.6	407.1	396.0	391.6	387.1	374.9	363.8	347.2
15°	455.9	453.7	448.2	431.5	413.8	402.7	403.8	398.2	384.9	377.2	359.4
17.5°	455.9	455.9	447.0	434.8	419.3	409.3	409.3	406.0	397.1	386.0	373.8
20°	447.0	447.0	441.5	434.8	417.1	414.9	412.7	410.4	410.4	400.5	382.7
22.5°	436.0	433.7	436.0	424.9	412.7	414.9	418.2	417.1	413.8	404.9	392.7
25°	424.9	426.0	428.2	420.4	409.3	419.3	418.2	423.8	421.5	414.9	404.9
27.5°	423.8	426.0	427.1	419.3	414.9	423.8	428.2	433.7	434.8	428.2	416.0
30°	440.4	439.3	438.2	428.2	424.9	432.6	437.1	444.8	451.5	437.1	427.1
32.5°	483.7	477.0	470.3	443.7	433.7	439.3	443.7	454.8	455.9	448.2	433.7
35°	552.4	548.0	525.8	479.2	451.5	445.9	450.4	458.1	460.4	454.8	443.7
37.5°	631.2	629.0	597.9	541.3	488.1	461.5	457.0	468.1	477.0	464.8	449.3
40°	708.8	700.0	677.8	622.3	534.7	484.8	479.2	484.8	488.1	479.2	469.2
42.5°	778.7	768.7	763.2	707.7	595.7	523.6	519.2	505.8	515.8	504.7	491.4
45°	837.5	835.3	833.1	785.4	665.6	586.8	583.5	549.1	560.2	551.3	532.5
47.5°	879.7	889.7	886.3	859.7	745.4	654.5	644.5	600.1	616.8	607.9	589.0
50°	929.6	935.1	931.8	914.1	819.8	732.1	713.3	667.8	686.7	685.5	675.6
52.5°	974.0	990.6	971.7	970.6	926.3	816.4	784.3	741.0	772.1	784.3	783.2
55°	1026.1	1039.4	1033.9	1031.6	1021.7	898.5	869.7	817.6	869.7	887.4	903.0
57.5°	1070.5	1069.4	1090.4	1116.0	1128.2	992.8	958.4	897.4	976.2	996.1	1039.4
60°	1090.4	1109.3	1144.8	1209.1	1243.5	1093.8	1058.3	1009.5	1083.8	1099.3	1179.2
62.5°	1103.8	1120.4	1189.2	1297.9	1317.8	1196.9	1163.7	1114.8	1201.4	1212.5	1331.2
65°	1067.1	1082.7	1219.1	1331.2	1402.2	1307.9	1300.1	1249.1	1319.0	1325.6	1490.9
67.5°	1025.0	1041.6	1193.6	1373.3	1514.2	1455.4	1443.2	1382.2	1435.4	1427.7	1612.9
70°	950.7	972.9	1128.2	1409.9	1638.4	1661.7	1637.3	1550.8	1556.3	1483.1	1618.5
72.5°	724.4	738.8	883.0	1264.6	1696.1	1947.9	1905.8	1732.7	1669.5	1494.2	1428.8
75°	343.9	370.5	492.5	836.4	1486.5	1961.2	1989.0	1822.6	1609.6	1325.6	1012.8
77.5°	99.8	99.8	149.8	355.0	931.8	1580.7	1632.9	1547.5	1327.8	981.7	532.5
80°	54.4	57.7	78.8	125.4	409.3	997.3	1072.7	1026.1	782.1	388.3	137.6
82.5°	31.1	32.2	52.1	75.4	186.4	542.4	586.8	532.5	297.3	117.6	64.3
85°	17.7	18.9	30.0	49.9	110.9	199.7	217.4	188.6	119.8	78.8	32.2
87.5°	8.9	8.9	14.4	23.3	56.6	56.6	55.5	67.7	72.1	47.7	14.4
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°	322.8	322.8	322.8	322.8	322.8	322.8	322.8	322.8	322.8	322.8	322.8
2.5°	322.8	321.7	321.7	317.3	316.1	312.8	312.8	310.6	309.5	312.8	312.8
5°	323.9	318.4	317.3	312.8	313.9	311.7	316.1	313.9	312.8	312.8	311.7
7.5°	326.1	320.6	316.1	312.8	311.7	315.0	320.6	320.6	327.2	323.9	323.9
10°	331.7	328.4	322.8	320.6	320.6	323.9	330.6	335.0	340.6	340.6	337.2
12.5°	345.0	339.4	332.8	329.5	333.9	337.2	343.9	348.3	355.0	357.2	355.0
15°	355.0	349.4	347.2	345.0	348.3	352.8	358.3	362.7	370.5	372.7	371.6
17.5°	368.3	361.6	360.5	361.6	363.8	367.2	370.5	373.8	379.4	379.4	379.4
20°	374.9	372.7	371.6	374.9	379.4	383.8	381.6	379.4	378.3	380.5	379.4
22.5°	387.1	384.9	386.0	389.4	389.4	387.1	383.8	376.1	373.8	376.1	373.8
25°	398.2	396.0	396.0	393.8	392.7	384.9	378.3	371.6	363.8	367.2	366.1
27.5°	409.3	408.2	408.2	399.3	388.3	374.9	366.1	358.3	353.9	359.4	356.1
30°	422.6	423.8	418.2	397.1	370.5	356.1	346.1	345.0	343.9	347.2	346.1
32.5°	434.8	436.0	427.1	393.8	357.2	329.5	319.5	320.6	326.1	331.7	337.2
35°	441.5	447.0	436.0	382.7	330.6	299.5	288.4	298.4	308.4	316.1	321.7
37.5°	453.7	468.1	449.3	370.5	307.3	272.9	265.1	268.4	280.7	292.9	298.4
40°	471.5	488.1	452.6	347.2	276.2	246.3	241.8	242.9	247.4	255.1	260.7
42.5°	502.5	520.3	455.9	317.3	245.2	229.6	217.4	214.1	210.8	210.8	209.7
45°	548.0	564.6	451.5	279.5	214.1	203.0	194.1	186.4	177.5	163.1	165.3
47.5°	614.6	627.9	454.8	246.3	185.3	176.4	169.7	160.8	147.5	132.0	130.9
50°	715.5	695.5	450.4	211.9	164.2	156.4	150.9	138.7	123.1	112.0	110.9
52.5°	833.1	793.1	445.9	183.0	146.4	139.8	135.3	122.0	107.6	102.1	100.9
55°	975.1	917.4	452.6	157.5	133.1	127.6	123.1	110.9	99.8	95.4	94.3
57.5°	1142.6	1051.6	489.2	137.6	118.7	116.5	115.4	105.4	95.4	92.1	91.0
60°	1300.1	1180.3	513.6	123.1	105.4	107.6	109.8	105.4	94.3	92.1	92.1
62.5°	1432.1	1286.8	474.8	110.9	98.7	105.4	115.4	112.0	107.6	109.8	107.6
65°	1548.6	1323.4	355.0	104.3	95.4	110.9	127.6	126.5	116.5	118.7	117.6
67.5°	1568.5	1279.0	231.8	98.7	93.2	122.0	143.1	129.8	109.8	109.8	106.5
70°	1485.3	1160.3	155.3	93.2	92.1	122.0	146.4	122.0	103.2	103.2	98.7
72.5°	1219.1	927.4	119.8	87.6	84.3	108.7	138.7	115.4	96.5	94.3	86.5
75°	800.9	597.9	97.6	83.2	73.2	95.4	125.4	106.5	92.1	85.4	82.1
77.5°	392.7	268.4	82.1	73.2	63.2	83.2	114.3	100.9	86.5	79.9	77.7
80°	107.6	96.5	68.8	64.3	53.2	72.1	107.6	96.5	81.0	74.3	71.0
82.5°	61.0	59.9	55.5	52.1	44.4	72.1	108.7	96.5	76.5	75.4	64.3
85°	33.3	35.5	39.9	38.8	34.4	64.3	103.2	84.3	62.1	52.1	52.1
87.5°	13.3	16.6	20.0	22.2	23.3	47.7	77.7	64.3	47.7	39.9	39.9
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)