

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: P674912

Luminaire Tested: **CCW-SA-1B-850-U-T2**

Issue Date: 04/25/2023

Test Information

Test Method: LM-79-08
Report Number: P674912
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-T2
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @450mA w/
T2 distribution lens
Light Source: (16) 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3006.1 lumens
Efficiency: N/A
Efficacy: 125.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G1

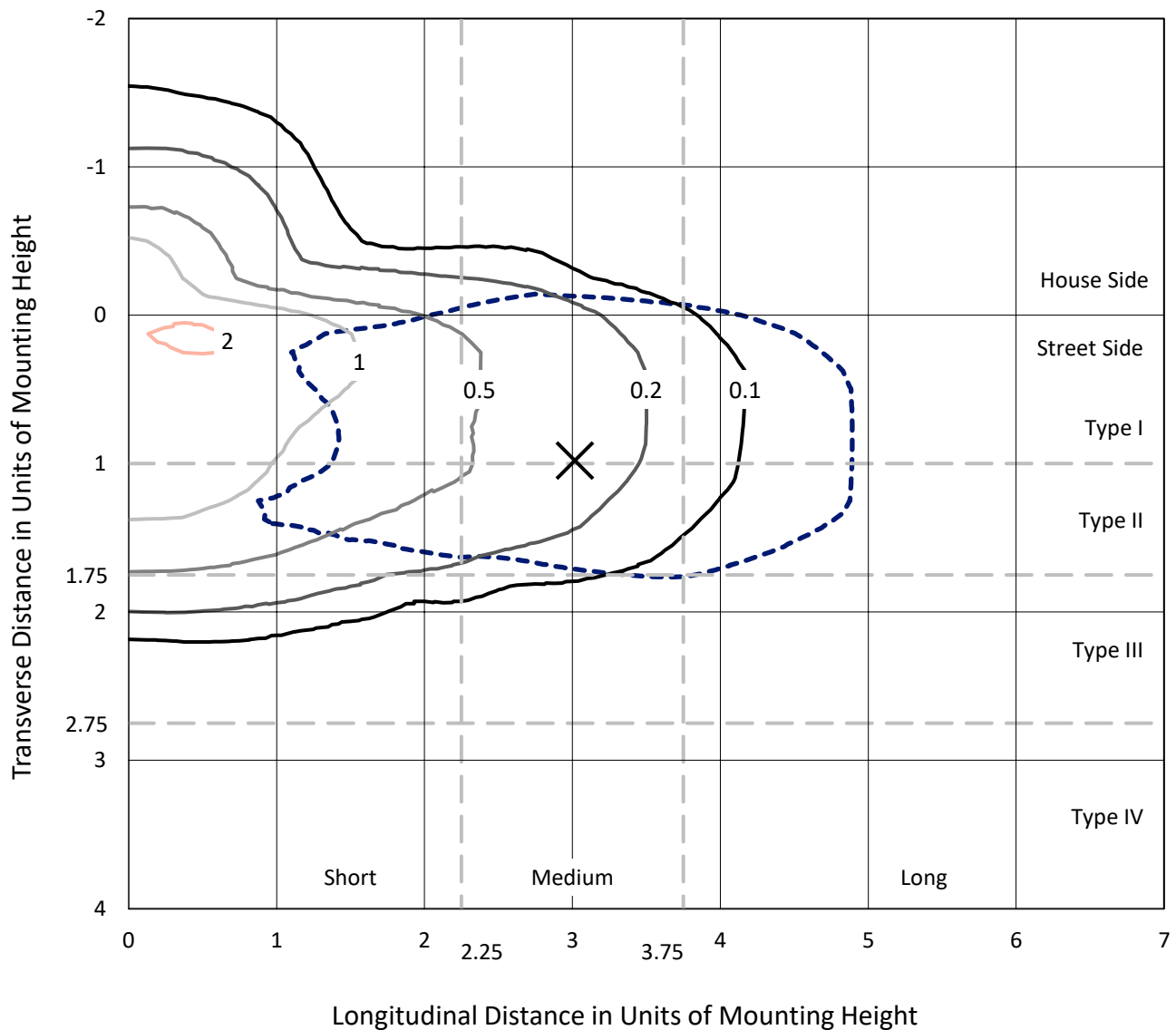
Input Watts (W): 24
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT

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Iso-Footcandle Lines of Horizontal Illumination

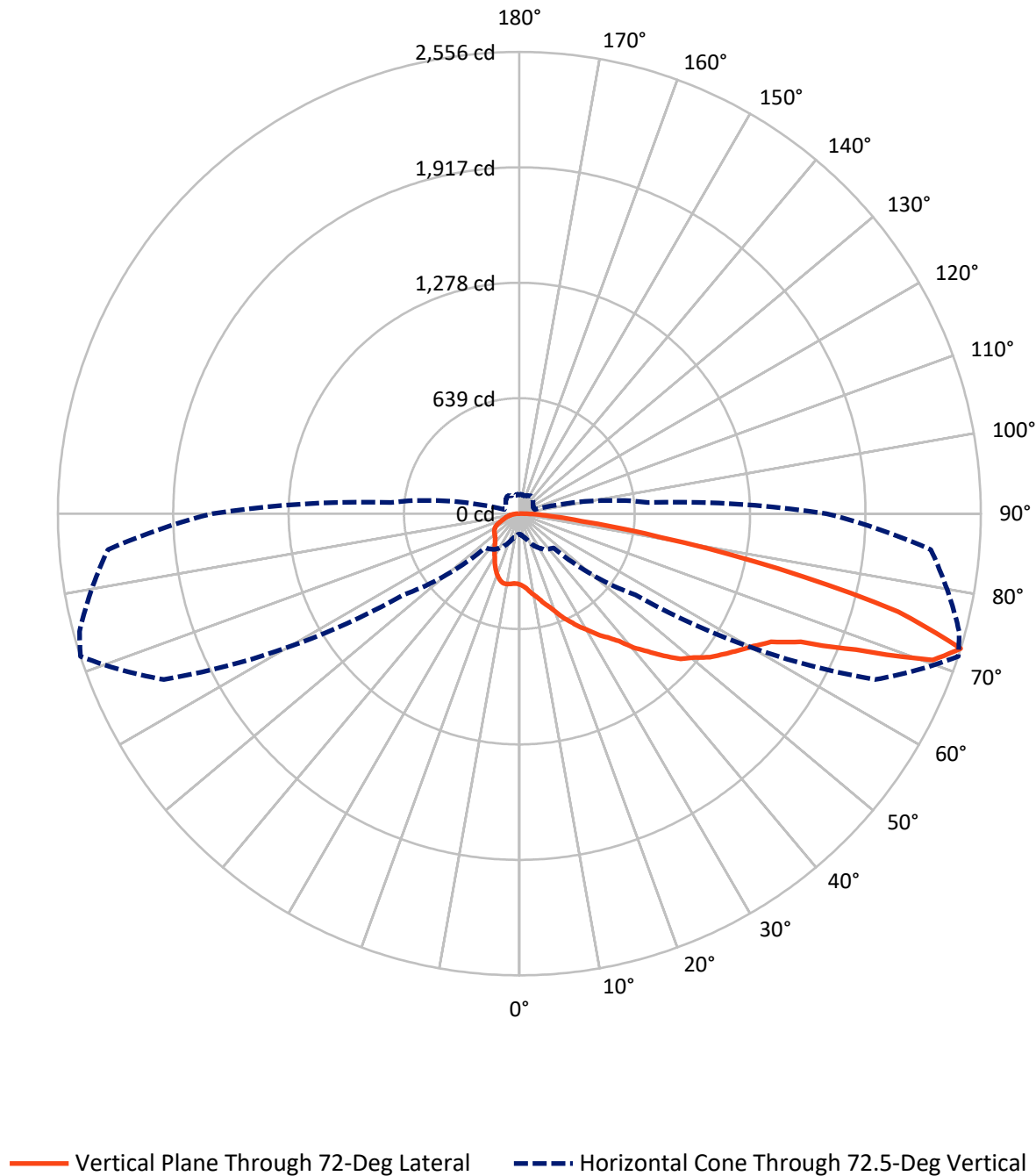
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 2.2 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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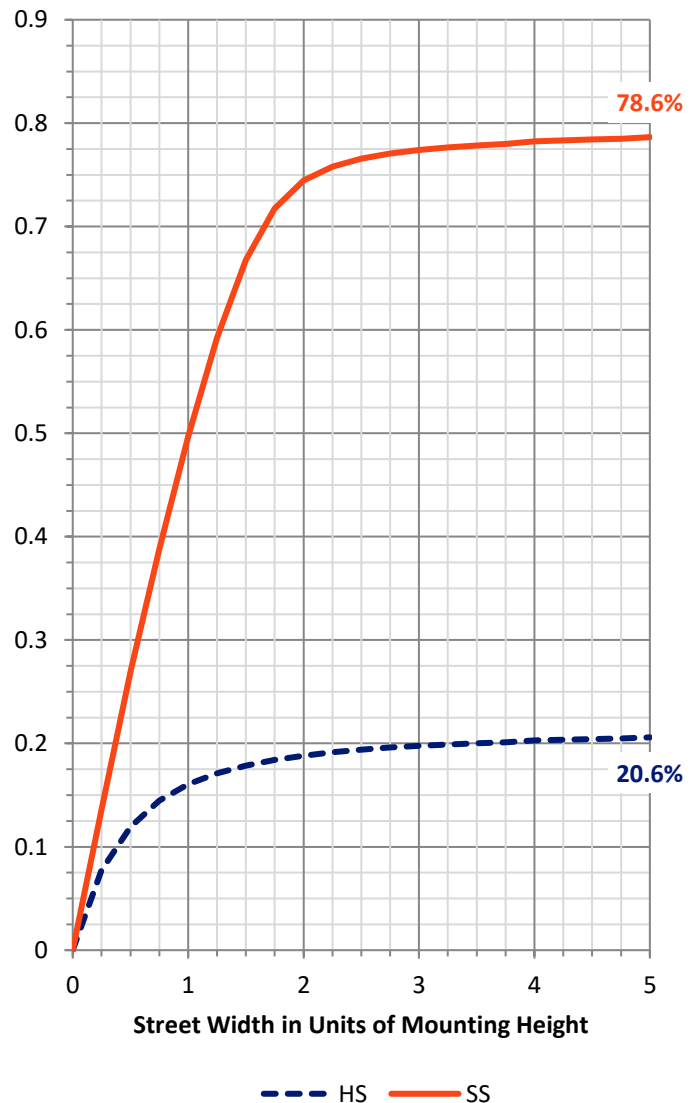
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	632.6	0.0	632.6
	% Fixture	21.0	0.0	21.0
Street Side	Lumens	2373.4	0.0	2373.4
	% Fixture	79.0	0.0	79.0
Total	Lumens	3006.1	0.0	3006.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	38.8	1.3
10°-20°	120.6	4.0
20°-30°	208.7	6.9
30°-40°	308.3	10.3
40°-50°	458.5	15.3
50°-60°	628.6	20.9
60°-70°	681.8	22.7
70°-80°	480.7	16.0
80°-90°	79.9	2.7
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°	3006.1	100.0
0°-180°	3006.1	100.0

Coefficient of Utilization



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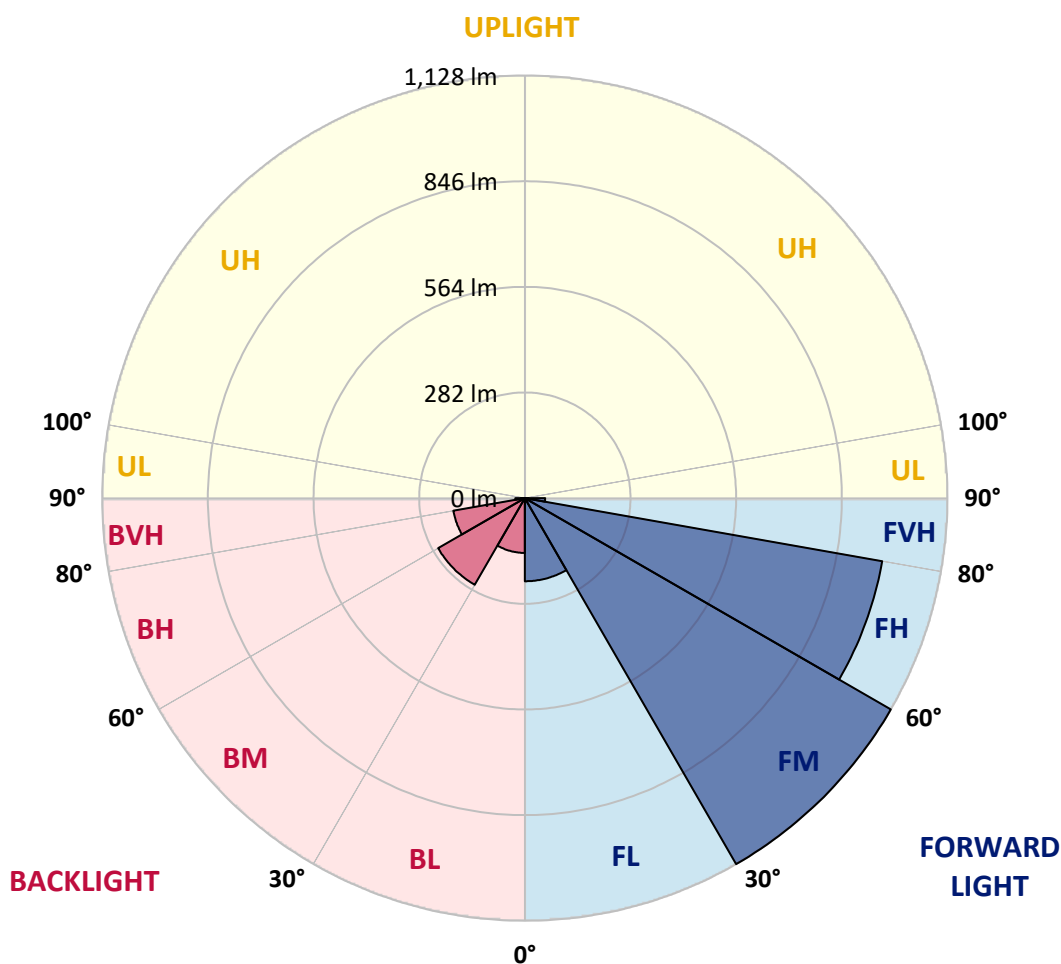
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	222.0	7.4			
FM	(30°-60°)	1128.2	37.5			
FH	(60°-80°)	968.8	32.2			G1/1800
FVH	(80°-90°)	54.5	1.8			G1/100
BL	(0°-30°)	146.2	4.9	B1/500		
BM	(30°-60°)	267.2	8.9	B1/1000		
BH	(60°-80°)	193.8	6.4	B1/500		G1/500
BVH	(80°-90°)	25.4	0.8			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 II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	392.7	392.7	392.7	392.7	392.7	392.7	392.7	392.7	392.7	392.7	392.7
2.5°	423.7	423.7	420.4	419.3	419.3	410.4	411.5	406.0	401.6	401.6	397.1
5°	445.9	443.7	443.7	443.7	438.2	434.8	433.7	423.7	416.0	417.1	403.8
7.5°	451.5	452.6	453.7	459.2	455.9	458.1	455.9	444.8	439.3	433.7	421.5
10°	454.8	457.0	457.0	464.8	464.8	470.3	473.7	469.2	459.2	453.7	433.7
12.5°	462.6	459.2	463.7	469.2	474.8	484.7	494.7	490.3	483.6	477.0	454.8
15°	462.6	463.7	467.0	475.9	484.7	494.7	512.5	519.1	515.8	503.6	480.3
17.5°	449.3	445.9	461.5	478.1	494.7	506.9	530.2	545.8	543.5	539.1	503.6
20°	450.4	453.7	459.2	473.7	500.3	522.5	551.3	576.8	582.4	580.1	534.7
22.5°	470.3	471.4	477.0	483.6	504.7	533.6	576.8	617.9	627.8	622.3	569.1
25°	490.3	499.2	499.2	503.6	511.4	541.3	593.5	651.1	665.6	666.7	604.5
27.5°	522.5	524.7	531.3	533.6	540.2	558.0	612.3	675.5	708.8	704.4	636.7
30°	560.2	561.3	565.7	563.5	564.6	586.8	630.1	703.3	748.8	749.9	671.1
32.5°	604.5	613.4	615.6	601.2	603.4	609.0	657.8	736.6	798.7	790.9	701.1
35°	670.0	673.3	666.7	660.0	643.4	640.0	686.6	769.8	841.9	850.8	745.4
37.5°	751.0	759.8	751.0	715.5	697.7	684.4	722.1	806.4	894.1	924.0	789.8
40°	826.4	825.3	816.4	784.3	753.2	743.2	773.2	857.5	975.0	1003.9	854.1
42.5°	887.4	884.1	878.5	854.1	825.3	808.7	831.9	910.7	1042.7	1098.2	928.5
45°	940.7	936.2	937.3	909.6	881.9	890.7	890.7	971.7	1122.6	1191.4	1013.9
47.5°	990.6	992.8	989.5	968.4	947.3	970.6	958.4	1041.6	1201.3	1277.9	1086.0
50°	1048.3	1052.7	1041.6	1028.3	1009.4	1032.7	1017.2	1107.0	1252.4	1356.6	1172.5
52.5°	1102.6	1107.0	1117.0	1100.4	1081.5	1100.4	1064.9	1168.1	1320.0	1433.2	1239.0
55°	1115.9	1113.7	1169.2	1186.9	1196.9	1140.3	1107.0	1220.2	1373.3	1482.0	1314.5
57.5°	1054.9	1060.5	1135.9	1186.9	1293.4	1244.6	1154.7	1281.2	1428.7	1546.3	1384.4
60°	902.9	906.3	1000.6	1121.5	1276.8	1342.2	1283.4	1360.0	1489.7	1600.7	1463.1
62.5°	603.4	629.0	746.5	936.2	1159.2	1368.8	1488.6	1493.1	1564.1	1669.4	1570.7
65°	318.4	330.6	422.6	575.7	878.5	1276.8	1681.6	1757.1	1712.7	1795.9	1726.0
67.5°	208.5	213.0	262.9	349.4	506.9	931.8	1703.8	2215.2	2011.1	2036.6	1974.5
70°	155.3	157.5	194.1	258.5	313.9	498.1	1396.6	2429.3	2428.2	2360.5	2269.6
72.5°	114.3	117.6	143.1	197.4	241.8	268.4	785.4	2173.0	2555.7	2521.4	2287.3
75°	89.9	92.1	105.4	153.1	195.2	176.4	398.2	1609.5	2167.5	2332.8	2093.2
77.5°	73.2	75.4	83.2	110.9	156.4	136.4	190.8	1038.3	1469.8	1679.4	1601.8
80°	61.0	61.0	66.6	78.8	120.9	103.2	113.1	583.5	792.0	874.1	726.6
82.5°	52.1	51.0	55.5	57.7	89.9	74.3	73.2	264.0	348.3	369.4	272.9
85°	33.3	34.4	52.1	49.9	58.8	51.0	41.0	125.3	164.2	167.5	102.1
87.5°	13.3	13.3	22.2	27.7	33.3	31.1	20.0	56.6	72.1	72.1	28.8
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°	392.7	392.7	392.7	392.7	392.7	392.7	392.7	392.7	392.7	392.7	392.7
2.5°	396.0	391.6	388.2	386.0	380.5	374.9	376.0	374.9	370.5	368.3	368.3
5°	400.4	396.0	390.5	381.6	376.0	369.4	371.6	367.2	362.7	366.1	360.5
7.5°	411.5	403.8	396.0	382.7	373.8	363.8	359.4	357.2	353.9	351.6	351.6
10°	427.1	416.0	401.6	381.6	367.2	351.6	349.4	345.0	341.7	341.7	340.5
12.5°	442.6	430.4	406.0	373.8	349.4	338.3	337.2	338.3	340.5	341.7	342.8
15°	462.6	442.6	404.9	359.4	335.0	330.6	336.1	340.5	345.0	349.4	348.3
17.5°	481.4	458.1	394.9	341.7	322.8	323.9	333.9	342.8	351.6	356.1	357.2
20°	506.9	472.5	380.5	320.6	310.6	320.6	333.9	345.0	355.0	360.5	361.6
22.5°	535.8	489.2	361.6	301.7	300.6	310.6	323.9	340.5	351.6	361.6	360.5
25°	561.3	500.3	337.2	286.2	288.4	295.1	310.6	328.3	339.4	350.5	347.2
27.5°	577.9	502.5	311.7	275.1	275.1	281.8	296.2	307.3	317.2	326.1	327.2
30°	596.8	498.1	282.9	260.7	260.7	269.6	275.1	281.8	287.3	289.5	291.7
32.5°	619.0	488.1	265.1	249.6	249.6	256.2	259.6	257.3	256.2	250.7	254.0
35°	640.0	473.7	245.1	235.2	239.6	242.9	241.8	235.2	228.5	218.5	215.2
37.5°	665.6	459.2	227.4	219.6	227.4	228.5	228.5	220.7	211.9	199.7	199.7
40°	704.4	448.1	213.0	209.7	217.4	216.3	210.8	205.2	208.5	201.9	201.9
42.5°	745.4	443.7	199.7	200.8	204.1	205.2	199.7	193.0	206.3	198.6	199.7
45°	796.5	447.0	190.8	189.7	197.4	196.3	193.0	187.5	191.9	171.9	166.4
47.5°	844.2	453.7	186.4	181.9	190.8	193.0	188.6	176.4	169.7	157.5	155.3
50°	887.4	468.1	181.9	173.0	181.9	186.4	178.6	165.3	157.5	149.8	149.8
52.5°	928.5	489.2	179.7	163.1	170.8	176.4	171.9	158.6	149.8	146.4	143.1
55°	970.6	508.0	176.4	156.4	158.6	169.7	168.6	150.9	142.0	142.0	140.9
57.5°	1030.5	533.6	171.9	145.3	149.8	162.0	162.0	147.5	137.5	138.7	139.8
60°	1091.5	563.5	167.5	134.2	137.5	154.2	156.4	143.1	134.2	135.3	134.2
62.5°	1189.1	619.0	158.6	120.9	127.6	144.2	149.8	137.5	129.8	132.0	132.0
65°	1336.7	714.4	139.8	109.8	117.6	135.3	143.1	132.0	123.1	129.8	127.6
67.5°	1574.0	845.3	117.6	100.9	110.9	126.5	135.3	125.3	117.6	127.6	124.2
70°	1787.0	909.6	100.9	93.2	100.9	116.5	126.5	118.7	110.9	120.9	116.5
72.5°	1700.5	713.3	87.6	84.3	92.1	105.4	117.6	109.8	102.1	107.6	103.2
75°	1467.6	567.9	76.5	75.4	82.1	95.4	107.6	102.1	94.3	96.5	94.3
77.5°	1112.6	469.2	65.4	64.3	69.9	85.4	96.5	92.1	84.3	83.2	83.2
80°	497.0	230.7	54.4	54.4	57.7	73.2	82.1	79.9	72.1	71.0	69.9
82.5°	163.1	87.6	44.4	42.2	46.6	61.0	73.2	71.0	63.2	61.0	58.8
85°	65.4	42.2	32.2	32.2	36.6	51.0	65.4	61.0	51.0	45.5	45.5
87.5°	22.2	17.7	16.6	16.6	23.3	34.4	48.8	41.0	36.6	32.2	33.3
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)