

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: P675199

Luminaire Tested: **CCW-SA-1A-850-U-T4FT**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P675199
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1A-850-U-T4FT
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @350mA w/
T4FT distribution lens
Light Source: (16) 5000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

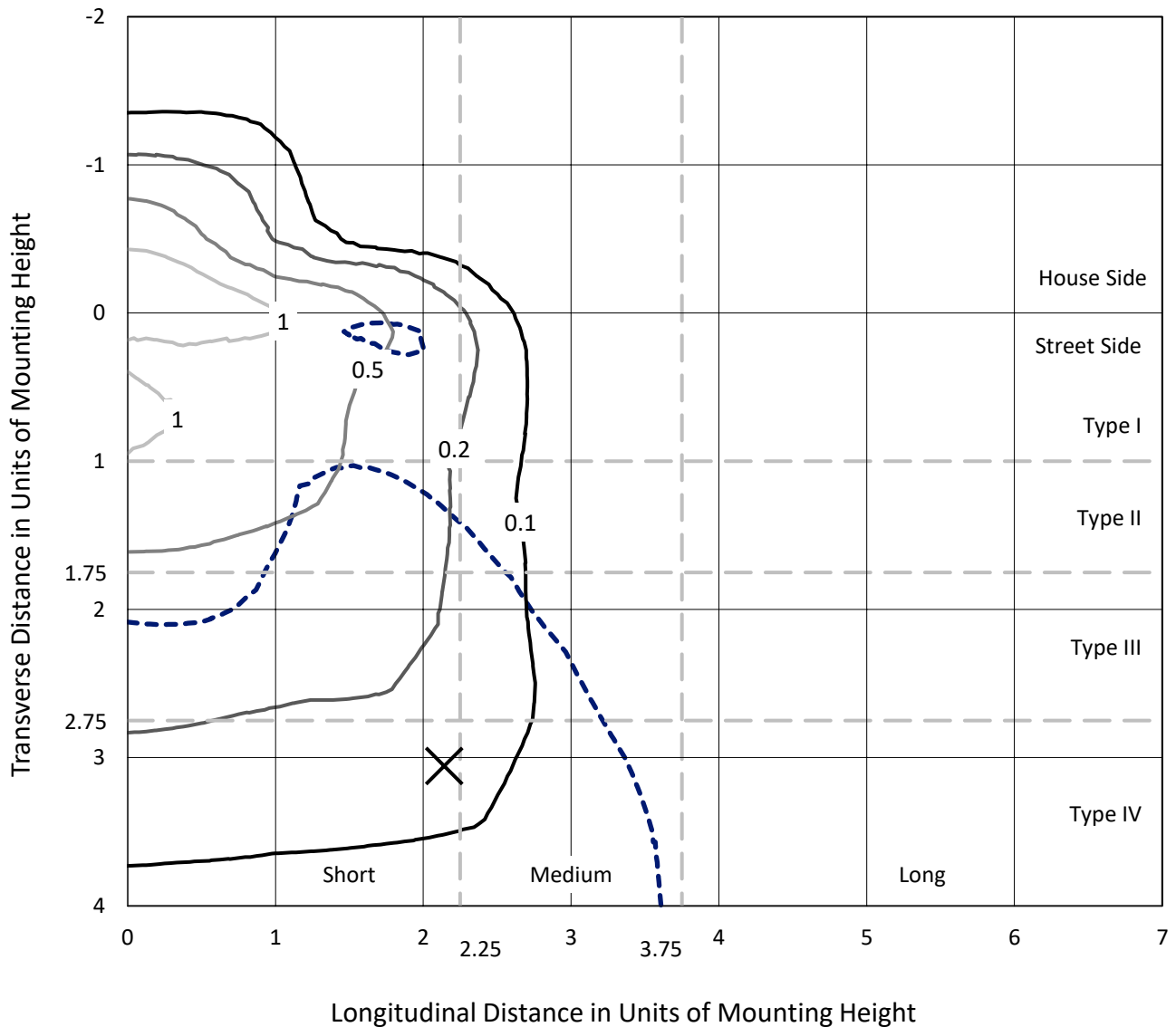
Lumens per Lamp: N/A
Luminaire Lumens: 2385.8 lumens
Efficiency: N/A
Efficacy: 132.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 18
Input Voltage (V): 120
Input Current (A_{in}): 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

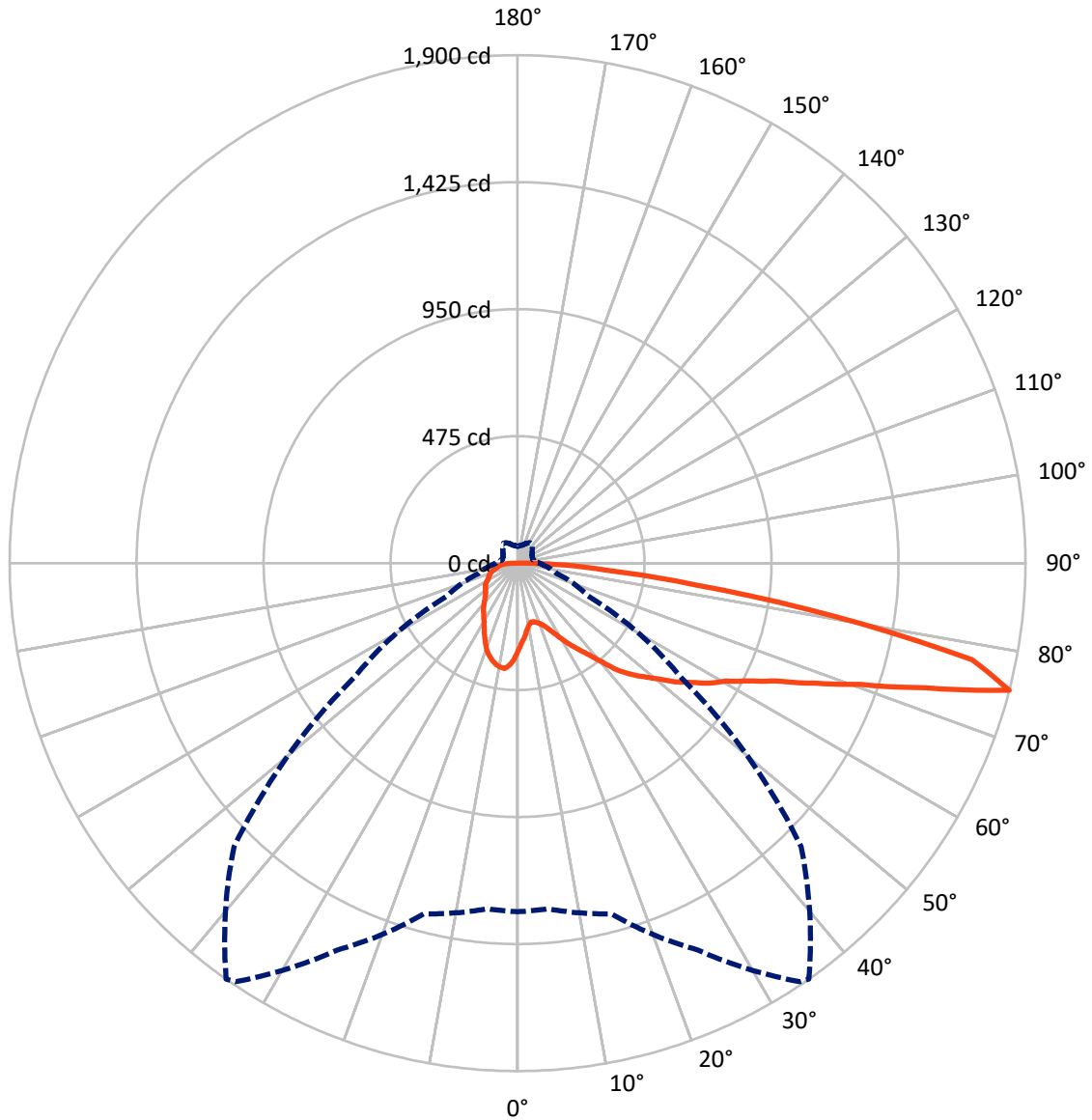
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 1.7 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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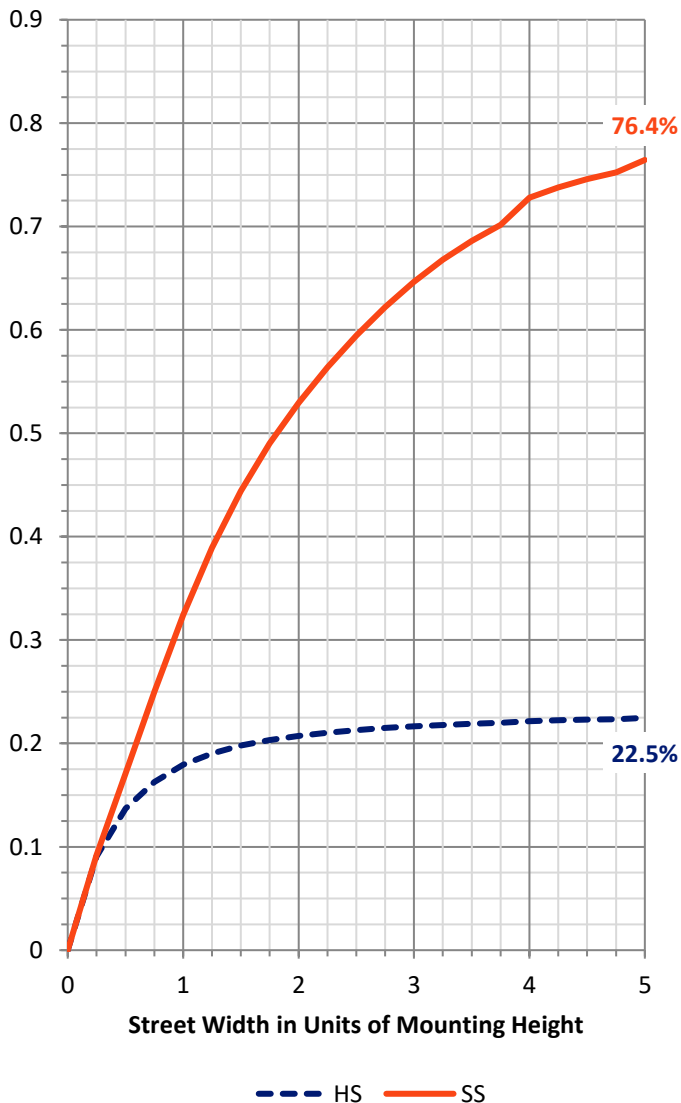
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	548.3	0.0	548.3
	% Fixture	23.0	0.0	23.0
Street Side	Lumens	1837.5	0.0	1837.5
	% Fixture	77.0	0.0	77.0
Total	Lumens	2385.8	0.0	2385.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	31.1	1.3
10°-20°	90.4	3.8
20°-30°	150.0	6.3
30°-40°	222.3	9.3
40°-50°	320.6	13.4
50°-60°	440.9	18.5
60°-70°	544.6	22.8
70°-80°	498.2	20.9
80°-90°	87.7	3.7
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°	2385.8	100.0
0°-180°	2385.8	100.0



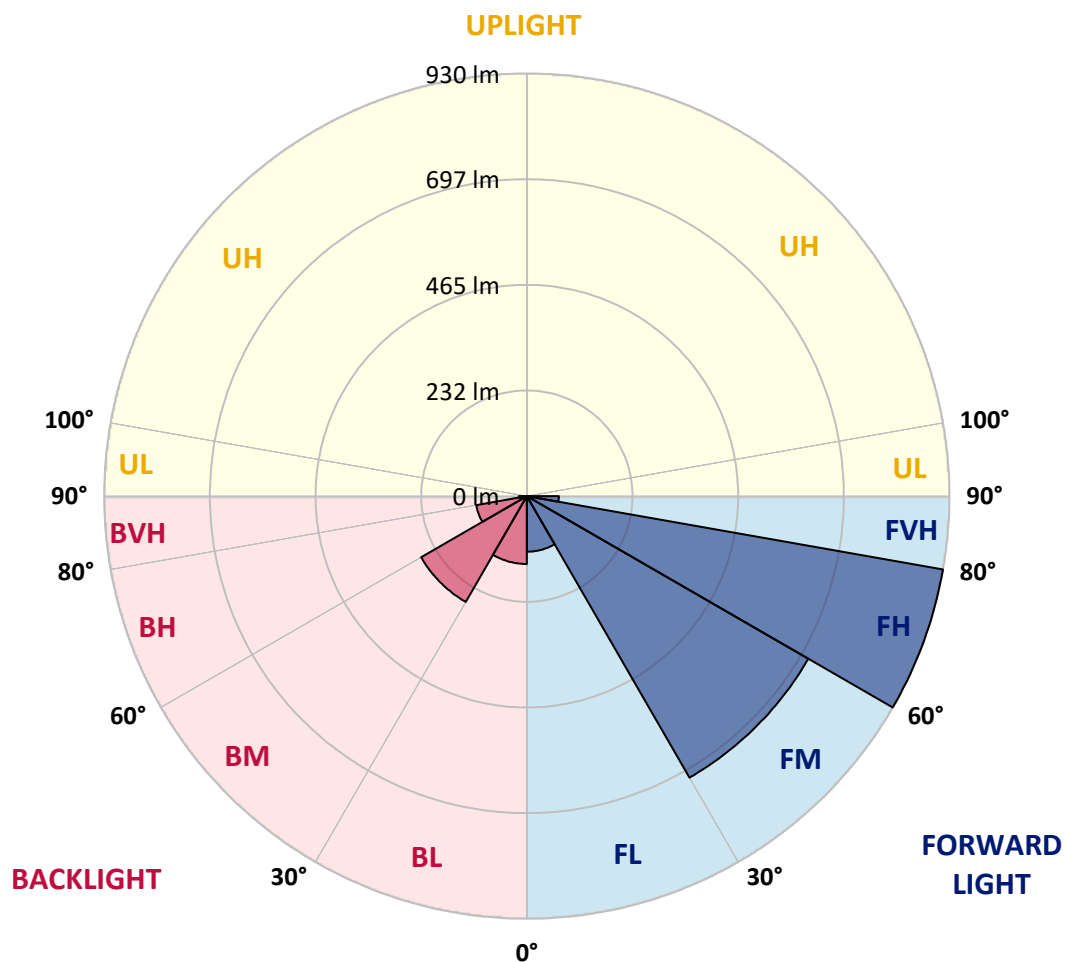
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	122.3	5.1			
FM (30°-60°)	715.1	30.0			
FH (60°-80°)	929.7	39.0			G1/1800
FVH (80°-90°)	70.4	3.0			G1/100
BL (0°-30°)	149.2	6.3	B1/500		
BM (30°-60°)	268.7	11.3	B1/1000		
BH (60°-80°)	113.1	4.7	B1/500		G1/500
BVH (80°-90°)	17.3	0.7			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 Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	326.9	326.9	326.9	326.9	326.9	326.9	326.9	326.9	326.9	326.9	326.9
2.5°	296.1	293.5	296.1	297.9	297.9	297.9	300.5	308.4	313.7	317.2	323.4
5°	265.4	266.2	268.0	272.4	275.0	276.8	281.2	290.8	298.8	310.2	323.4
7.5°	238.1	239.9	242.5	246.9	253.1	252.2	261.8	275.0	290.0	304.9	324.2
10°	224.1	227.6	228.5	229.3	235.5	235.5	248.7	263.6	282.1	301.4	324.2
12.5°	226.7	226.7	224.1	223.2	226.7	225.8	237.2	254.8	275.0	302.3	327.7
15°	234.6	234.6	229.3	224.1	229.3	227.6	237.2	251.3	275.0	303.1	334.8
17.5°	245.2	246.0	239.9	231.1	232.8	233.7	240.8	253.9	275.0	304.9	344.4
20°	266.2	261.8	252.2	238.1	244.3	241.6	252.2	263.6	280.3	311.9	358.5
22.5°	284.7	284.7	266.2	253.9	254.8	254.8	264.5	274.1	288.2	321.6	369.0
25°	314.6	312.8	290.0	271.5	273.3	274.1	279.4	290.8	301.4	326.9	382.2
27.5°	352.4	348.0	325.1	304.0	297.0	299.6	302.3	311.1	313.7	335.7	398.0
30°	392.8	386.6	367.3	333.9	330.4	331.3	326.9	332.1	328.6	349.7	413.9
32.5°	418.3	418.3	399.8	375.2	365.5	365.5	350.6	354.1	354.1	362.9	442.0
35°	440.2	438.5	426.2	407.7	401.6	398.0	383.1	388.4	379.6	388.4	481.5
37.5°	473.6	468.3	463.1	450.8	438.5	435.8	427.9	431.4	419.1	414.7	526.3
40°	512.3	509.6	504.4	499.1	486.8	485.9	477.1	480.6	467.5	450.8	571.1
42.5°	569.4	561.5	544.8	540.4	543.0	546.5	543.0	536.9	513.1	492.1	619.5
45°	626.5	614.2	582.6	575.5	595.7	593.1	608.0	605.4	566.7	533.4	670.4
47.5°	663.4	652.9	627.4	623.0	631.8	635.3	680.1	672.2	610.7	571.1	719.6
50°	689.8	690.6	657.3	668.7	680.1	680.1	736.3	735.5	664.3	617.7	783.8
52.5°	728.4	716.1	702.1	712.6	728.4	737.2	806.6	787.3	697.7	657.3	855.8
55°	748.6	743.4	731.1	749.5	782.9	787.3	861.1	846.2	735.5	703.8	929.6
57.5°	756.5	760.9	781.1	789.1	835.6	847.0	910.3	889.2	770.6	761.8	986.8
60°	791.7	785.5	812.8	844.4	889.2	895.4	971.8	926.1	804.9	799.6	1005.2
62.5°	862.9	847.0	862.0	899.8	962.2	970.1	1036.8	975.3	819.8	825.1	1004.3
65°	966.5	955.1	933.2	963.0	1050.9	1062.3	1113.3	1017.5	815.4	816.3	933.2
67.5°	1088.7	1070.2	1047.4	1065.8	1173.0	1199.4	1206.4	1036.0	784.7	767.1	759.2
70°	1195.9	1183.6	1168.6	1200.3	1349.6	1359.3	1322.4	1024.5	699.4	616.0	506.1
72.5°	1296.1	1289.9	1298.7	1417.3	1588.7	1594.8	1431.4	952.5	552.7	373.4	235.5
75°	1304.0	1297.8	1358.4	1596.6	1888.3	1899.7	1499.0	746.9	291.7	152.0	99.3
77.5°	883.1	901.5	1014.9	1398.0	1734.5	1737.1	1225.8	347.1	120.4	89.6	69.4
80°	217.0	240.8	382.2	723.2	1169.5	1198.5	671.3	116.9	79.1	68.5	51.8
82.5°	79.1	86.1	155.5	326.9	657.3	668.7	234.6	63.3	57.1	52.7	37.8
85°	37.8	38.7	73.8	160.8	332.1	328.6	84.4	37.8	41.3	36.0	22.8
87.5°	15.8	15.8	32.5	74.7	146.7	142.3	27.2	17.6	23.7	21.1	11.4
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°	326.9	326.9	326.9	326.9	326.9	326.9	326.9	326.9	326.9	326.9	326.9
2.5°	327.7	329.5	336.5	341.8	347.1	351.5	358.5	358.5	362.9	362.9	362.9
5°	326.9	336.5	348.0	360.3	368.2	376.1	383.1	384.0	386.6	390.1	391.0
7.5°	330.4	340.0	358.5	376.1	385.7	389.3	398.0	395.4	395.4	395.4	398.0
10°	337.4	348.0	373.4	389.3	396.3	397.2	394.5	392.8	387.5	385.7	383.1
12.5°	342.7	361.1	386.6	398.9	396.3	393.6	387.5	378.7	372.6	370.8	370.8
15°	355.9	374.3	398.0	402.4	398.0	384.0	376.1	366.4	361.1	353.2	356.7
17.5°	367.3	388.4	409.5	404.2	395.4	373.4	362.0	348.0	340.9	332.1	332.1
20°	382.2	401.6	420.0	405.9	386.6	362.9	344.4	326.9	317.2	308.4	310.2
22.5°	398.9	416.5	426.2	398.9	373.4	346.2	320.7	304.0	291.7	286.4	288.2
25°	412.1	431.4	429.7	387.5	357.6	325.1	297.0	281.2	278.5	273.3	273.3
27.5°	428.8	449.0	427.0	373.4	331.3	291.7	274.1	268.0	268.0	265.4	267.1
30°	450.8	464.8	420.9	353.2	297.9	261.8	253.1	256.6	262.7	260.1	261.0
32.5°	486.8	485.0	415.6	330.4	262.7	232.8	239.0	246.0	251.3	253.9	255.7
35°	521.9	510.5	409.5	299.6	230.2	218.8	224.1	232.0	241.6	244.3	245.2
37.5°	557.1	536.9	398.9	261.8	210.0	206.5	211.8	216.2	224.1	225.8	227.6
40°	594.0	554.4	380.5	224.9	193.3	193.3	196.8	197.7	202.1	204.7	206.5
42.5°	626.5	571.1	347.1	190.7	175.7	181.9	182.8	181.0	177.5	179.3	180.1
45°	666.0	589.6	308.4	166.1	162.6	170.5	172.2	165.2	159.0	155.5	153.8
47.5°	704.7	608.9	275.0	145.9	150.3	162.6	162.6	154.6	144.1	135.3	131.8
50°	739.8	628.3	247.8	133.6	138.0	156.4	158.2	143.2	131.8	121.3	119.5
52.5°	798.7	660.8	219.7	123.9	130.9	152.0	151.1	138.0	123.0	111.6	110.7
55°	850.6	693.3	182.8	114.2	123.9	145.9	148.5	132.7	112.5	101.9	100.2
57.5°	888.3	701.2	145.9	104.6	116.9	138.8	142.3	122.1	105.4	96.7	95.8
60°	895.4	670.4	118.6	96.7	107.2	129.2	131.8	116.0	100.2	93.1	91.4
62.5°	862.9	611.6	101.0	89.6	99.3	119.5	124.8	109.0	94.9	88.7	87.9
65°	789.1	525.4	88.7	83.5	94.0	112.5	118.6	103.7	90.5	85.2	84.4
67.5°	624.7	403.3	79.1	79.1	87.0	105.4	114.2	100.2	86.1	82.6	81.7
70°	408.6	242.5	72.1	72.9	81.7	99.3	109.0	95.8	80.8	80.0	78.2
72.5°	175.7	111.6	64.1	66.8	73.8	88.7	101.0	89.6	74.7	72.1	69.4
75°	80.8	67.7	58.0	59.8	65.9	78.2	91.4	82.6	69.4	65.0	62.4
77.5°	57.1	49.2	48.3	51.8	56.2	67.7	80.8	77.3	64.1	60.6	58.9
80°	42.2	37.8	40.4	43.9	46.6	62.4	76.4	71.2	58.9	53.6	51.0
82.5°	29.9	28.1	31.6	35.1	37.8	54.5	70.3	62.4	49.2	44.8	40.4
85°	17.6	18.5	22.0	23.7	26.4	40.4	58.9	50.1	37.8	29.0	28.1
87.5°	7.9	7.9	10.5	11.4	13.2	23.7	39.5	31.6	23.7	18.5	17.6
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)