

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: P675734

Luminaire Tested: **CCW-SA-1D-827-U-SL4**

Issue Date: 04/25/2023

Test Information

Test Method: LM-79-08
Report Number: P675734
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1D-827-U-SL4
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @800mA w/
SL4 distribution lens
Light Source: (16) 2700K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

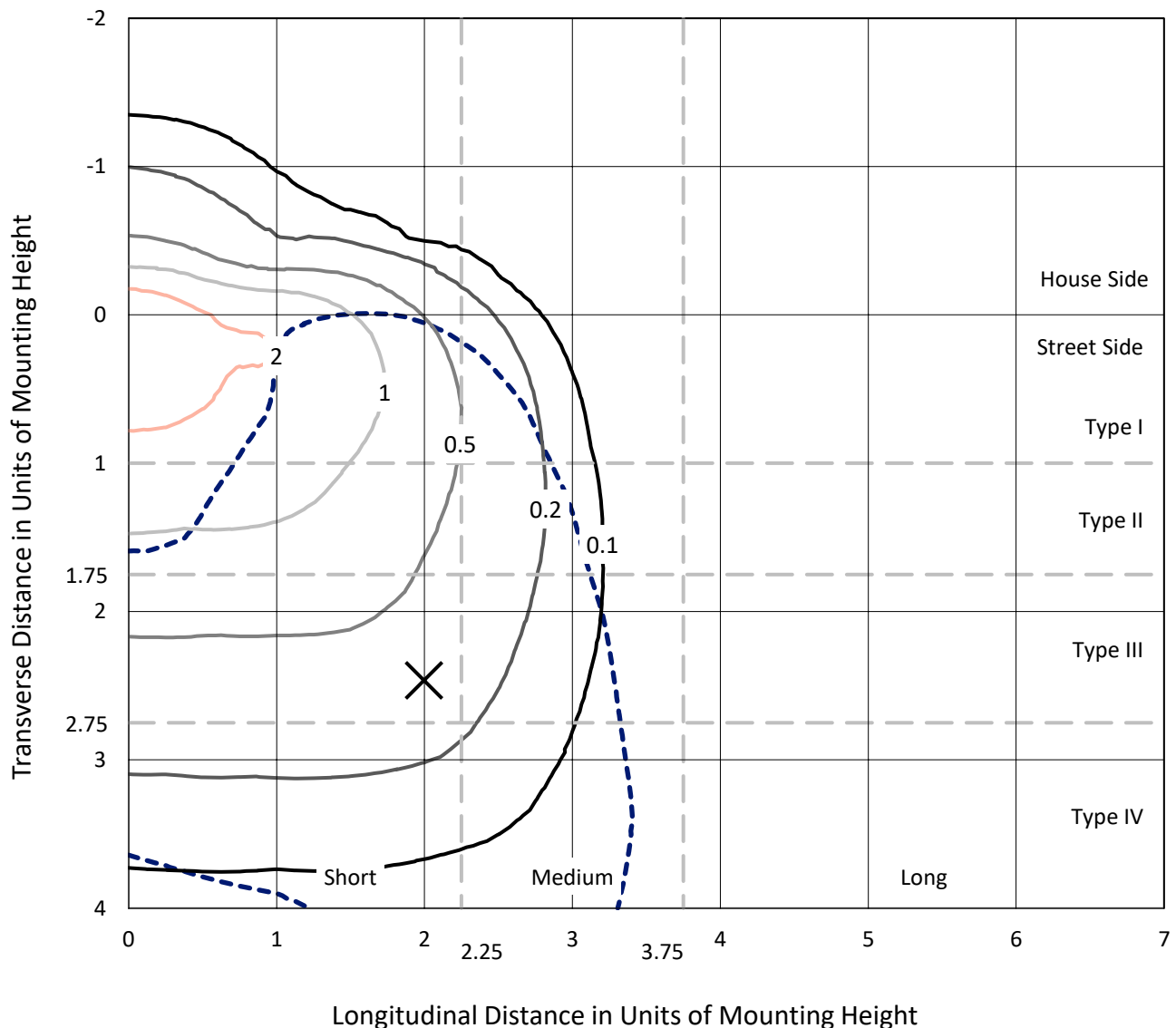
Lumens per Lamp: N/A
Luminaire Lumens: 4017.3 lumens
Efficiency: N/A
Efficacy: 91.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 44
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

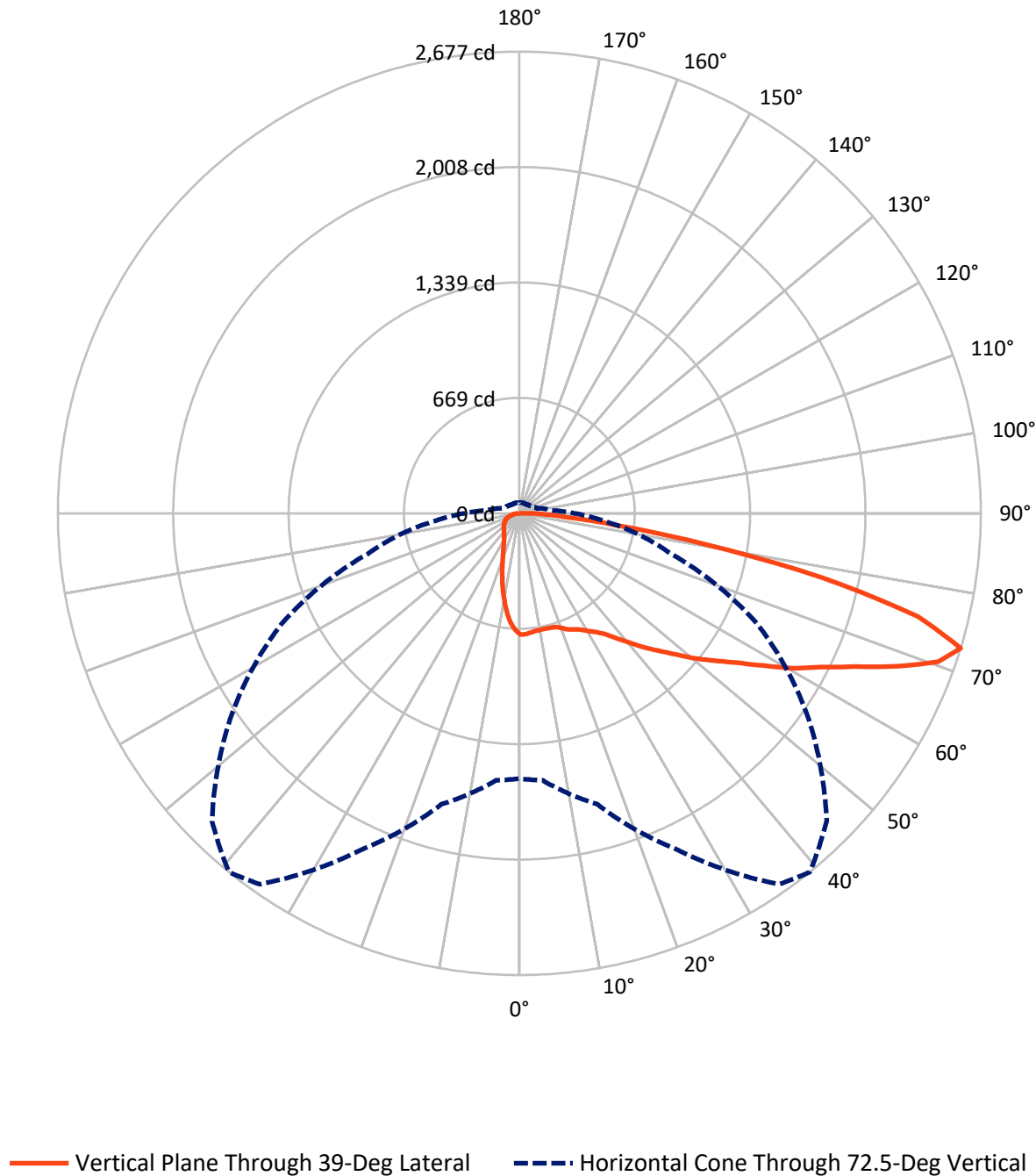
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 3.1 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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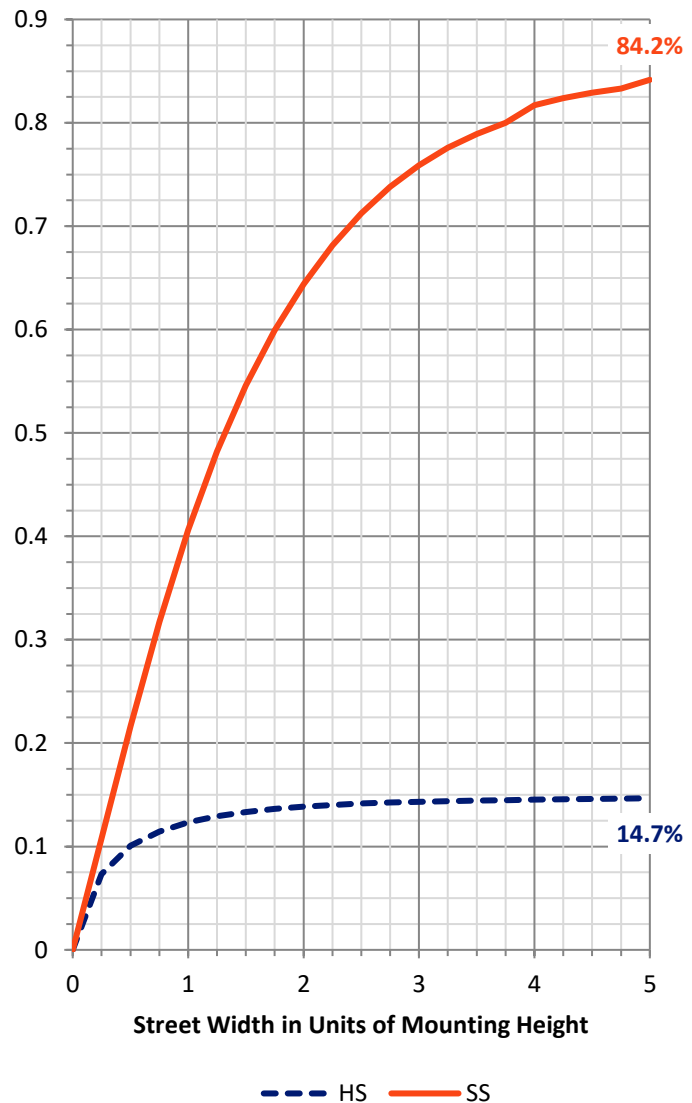
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	597.0	0.0	597.0
	% Fixture	14.9	0.0	14.9
Street Side	Lumens	3420.2	0.0	3420.2
	% Fixture	85.1	0.0	85.1
Total	Lumens	4017.3	0.0	4017.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	62.1	1.5
10°-20°	158.6	3.9
20°-30°	241.6	6.0
30°-40°	353.4	8.8
40°-50°	541.1	13.5
50°-60°	793.6	19.8
60°-70°	1012.1	25.2
70°-80°	731.3	18.2
80°-90°	123.4	3.1
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°	4017.3	100.0
0°-180°	4017.3	100.0

Coefficient of Utilization



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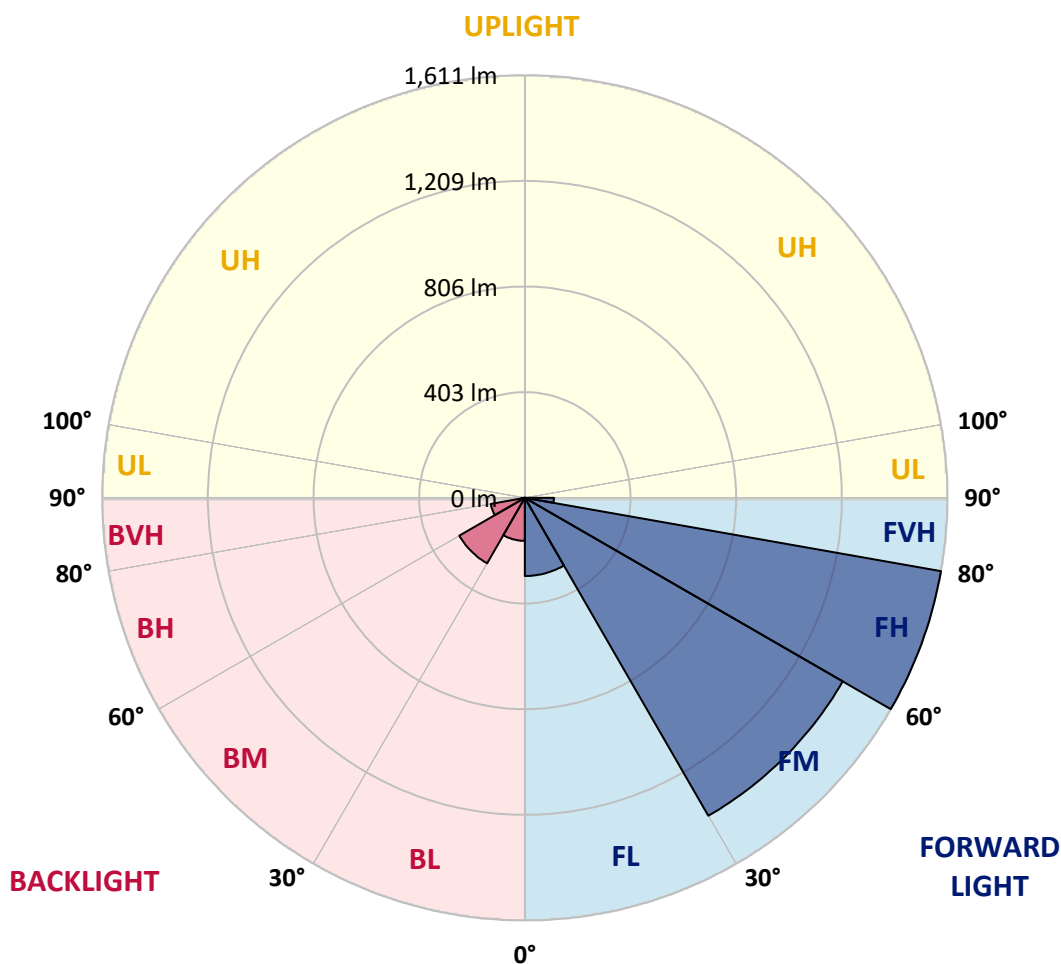
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	298.1	7.4			
FM	(30°-60°)	1399.7	34.8			
FH	(60°-80°)	1611.5	40.1			G1/1800
FVH	(80°-90°)	110.9	2.8			G2/225
BL	(0°-30°)	164.2	4.1	B1/500		
BM	(30°-60°)	288.4	7.2	B1/1000		
BH	(60°-80°)	131.9	3.3	B1/500		G1/500
BVH	(80°-90°)	12.5	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	703.2	703.2	703.2	703.2	703.2	703.2	703.2	703.2	703.2	703.2	703.2
2.5°	713.8	715.3	712.3	709.2	707.7	701.7	707.7	704.7	701.7	701.7	701.7
5°	704.7	706.2	706.2	703.2	704.7	694.1	692.6	694.1	689.6	686.6	685.1
7.5°	691.1	694.1	700.2	698.7	692.6	688.1	689.6	688.1	680.6	676.0	664.0
10°	680.6	683.6	686.6	689.6	688.1	686.6	685.1	679.1	677.5	667.0	654.9
12.5°	670.0	670.0	671.5	683.6	685.1	685.1	676.0	676.0	671.5	670.0	651.9
15°	659.4	664.0	676.0	679.1	685.1	688.1	683.6	683.6	676.0	665.5	651.9
17.5°	662.5	670.0	682.1	689.6	692.6	692.6	698.7	694.1	683.6	677.5	664.0
20°	677.5	679.1	694.1	707.7	710.7	710.7	704.7	700.2	692.6	682.1	664.0
22.5°	686.6	697.2	715.3	722.8	731.9	731.9	724.3	713.8	703.2	692.6	673.0
25°	725.8	727.3	734.9	747.0	751.5	745.5	737.9	725.8	712.3	701.7	683.6
27.5°	753.0	760.5	769.6	775.6	768.1	763.6	757.5	743.9	733.4	724.3	698.7
30°	802.8	793.7	799.8	802.8	789.2	792.2	775.6	763.6	751.5	751.5	722.8
32.5°	833.0	840.5	834.5	833.0	822.4	820.9	810.3	796.8	789.2	798.3	759.0
35°	885.8	881.3	881.3	879.8	867.7	860.1	860.1	836.0	843.5	863.2	814.9
37.5°	912.9	911.4	920.5	928.0	916.0	920.5	916.0	905.4	908.4	943.1	884.3
40°	940.1	950.7	968.8	971.8	979.3	985.4	982.4	980.9	992.9	1048.8	977.8
42.5°	965.8	974.8	1002.0	1026.1	1044.2	1063.9	1065.4	1065.4	1104.6	1184.6	1091.0
45°	999.0	1006.5	1044.2	1092.5	1122.7	1136.3	1148.4	1161.9	1214.8	1309.8	1211.7
47.5°	1044.2	1050.3	1095.5	1155.9	1214.8	1222.3	1246.4	1261.5	1341.5	1438.1	1335.5
50°	1109.1	1104.6	1140.8	1228.3	1285.7	1321.9	1356.6	1383.8	1462.2	1567.9	1432.0
52.5°	1161.9	1161.9	1189.1	1305.3	1383.8	1418.5	1454.7	1492.4	1582.9	1697.6	1510.5
55°	1252.5	1243.4	1260.0	1380.7	1493.9	1527.1	1596.5	1628.2	1715.7	1794.2	1576.9
57.5°	1314.3	1318.9	1338.5	1480.3	1623.7	1664.4	1733.9	1756.5	1833.4	1895.3	1625.2
60°	1395.8	1380.7	1423.0	1590.5	1767.0	1824.4	1881.7	1895.3	1952.7	1960.2	1647.8
62.5°	1474.3	1471.3	1507.5	1700.7	1921.0	1961.7	2020.6	2035.7	2059.8	2011.5	1616.1
65°	1522.6	1542.2	1610.1	1821.4	2096.0	2141.3	2200.1	2170.0	2142.8	1966.2	1460.7
67.5°	1589.0	1598.0	1702.2	1952.7	2298.2	2366.1	2417.4	2298.2	2096.0	1780.6	1229.8
70°	1604.1	1628.2	1764.0	2090.0	2506.5	2575.9	2578.9	2254.5	1925.5	1448.6	891.8
72.5°	1537.7	1554.3	1745.9	2147.3	2625.7	2677.0	2521.6	2038.7	1525.6	912.9	485.9
75°	1293.2	1340.0	1519.6	1970.8	2406.9	2387.3	2136.8	1555.8	916.0	404.4	205.2
77.5°	900.9	902.4	1089.5	1433.6	1801.8	1797.2	1524.1	902.4	392.3	163.0	120.7
80°	399.9	428.6	541.7	772.6	1094.0	1094.0	888.8	448.2	196.2	105.6	83.0
82.5°	235.4	244.5	289.7	360.7	532.7	561.4	425.5	298.8	134.3	66.4	51.3
85°	173.5	188.6	215.8	217.3	252.0	256.5	235.4	259.5	92.0	36.2	42.3
87.5°	129.8	138.8	172.0	143.4	134.3	126.8	144.9	265.6	34.7	18.1	13.6
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°	703.2	703.2	703.2	703.2	703.2	703.2	703.2	703.2	703.2	703.2	703.2
2.5°	695.7	695.7	692.6	686.6	686.6	674.5	677.5	680.6	673.0	673.0	674.5
5°	685.1	679.1	671.5	662.5	656.4	639.8	636.8	626.2	624.7	621.7	617.2
7.5°	664.0	654.9	641.3	627.7	608.1	593.0	574.9	559.8	553.8	549.3	547.8
10°	644.3	642.8	620.2	593.0	562.9	534.2	507.0	487.4	475.3	467.8	466.3
12.5°	644.3	632.3	600.6	562.9	519.1	476.8	442.1	415.0	398.4	386.3	381.8
15°	641.3	629.3	587.0	529.7	479.9	422.5	374.2	345.6	321.4	309.3	310.9
17.5°	644.3	626.2	567.4	505.5	436.1	374.2	316.9	282.2	258.0	249.0	247.5
20°	645.9	623.2	552.3	472.3	390.8	321.4	267.1	233.9	215.8	209.8	209.8
22.5°	642.8	614.2	529.7	433.1	351.6	277.7	232.4	203.7	191.6	184.1	187.1
25°	656.4	612.7	508.5	399.9	306.3	241.4	206.7	185.6	178.1	173.5	175.0
27.5°	659.4	612.7	491.9	362.2	267.1	214.3	187.1	173.5	167.5	164.5	163.0
30°	671.5	615.7	472.3	324.4	235.4	193.2	172.0	164.5	160.0	158.4	158.4
32.5°	704.7	624.7	451.2	292.7	208.2	175.0	161.5	155.4	152.4	150.9	152.4
35°	743.9	648.9	428.6	259.5	188.6	163.0	152.4	147.9	146.4	146.4	146.4
37.5°	804.3	685.1	408.9	232.4	172.0	150.9	143.4	141.8	140.3	141.8	141.8
40°	873.7	724.3	390.8	211.3	160.0	143.4	135.8	135.8	134.3	135.8	137.3
42.5°	953.7	772.6	372.7	190.1	149.4	137.3	131.3	129.8	128.3	131.3	132.8
45°	1063.9	839.0	360.7	178.1	141.8	131.3	125.2	125.2	123.7	123.7	126.8
47.5°	1155.9	902.4	360.7	166.0	137.3	126.8	120.7	120.7	117.7	119.2	119.2
50°	1232.9	956.7	368.2	163.0	131.3	122.2	117.7	114.7	113.2	113.2	113.2
52.5°	1284.2	989.9	374.2	160.0	128.3	116.2	113.2	111.7	108.6	107.1	108.6
55°	1335.5	1012.5	375.7	160.0	123.7	110.2	107.1	107.1	104.1	102.6	102.6
57.5°	1355.1	1003.5	354.6	156.9	120.7	105.6	102.6	101.1	99.6	98.1	98.1
60°	1346.0	970.3	307.8	149.4	117.7	102.6	96.6	96.6	96.6	93.6	95.1
62.5°	1284.2	857.1	247.5	137.3	113.2	96.6	90.5	93.6	93.6	92.0	92.0
65°	1121.2	707.7	200.7	126.8	107.1	92.0	86.0	90.5	92.0	90.5	89.0
67.5°	896.4	544.8	166.0	114.7	99.6	84.5	80.0	84.5	86.0	84.5	84.5
70°	615.7	351.6	134.3	102.6	89.0	77.0	72.4	75.5	75.5	77.0	77.0
72.5°	318.4	190.1	110.2	87.5	77.0	69.4	64.9	64.9	63.4	63.4	63.4
75°	158.4	129.8	92.0	73.9	64.9	58.9	55.8	52.8	52.8	52.8	52.8
77.5°	110.2	99.6	75.5	58.9	52.8	48.3	48.3	43.8	43.8	43.8	43.8
80°	83.0	78.5	57.3	45.3	40.7	37.7	37.7	36.2	36.2	34.7	34.7
82.5°	58.9	63.4	43.8	33.2	30.2	28.7	28.7	27.2	27.2	24.1	24.1
85°	46.8	52.8	33.2	24.1	22.6	19.6	19.6	18.1	18.1	16.6	15.1
87.5°	13.6	28.7	13.6	9.1	9.1	9.1	9.1	7.5	7.5	6.0	6.0
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)