

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: P676820

Luminaire Tested: **CCW-SA-1D-727-U-SL2-HSS**

Issue Date: 04/25/2023

Test Information

Test Method: LM-79-08
Report Number: P676820
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1D-727-U-SL2-HSS
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @800mA w/
SL2 distribution lens and House Side Shield
Light Source: (16) 2700K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

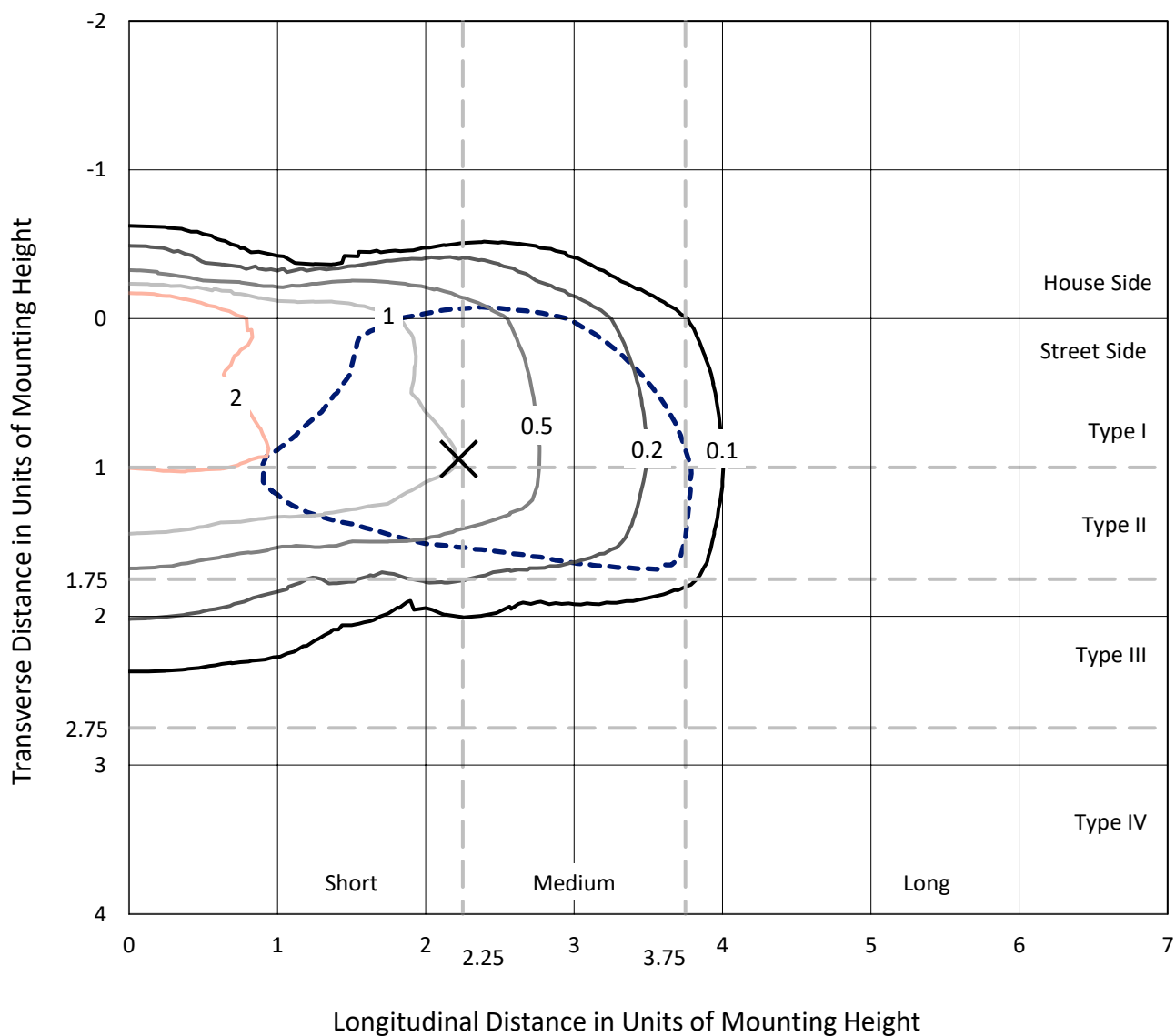
Lumens per Lamp: N/A
Luminaire Lumens: 3750.5 lumens
Efficiency: N/A
Efficacy: 85.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 44
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

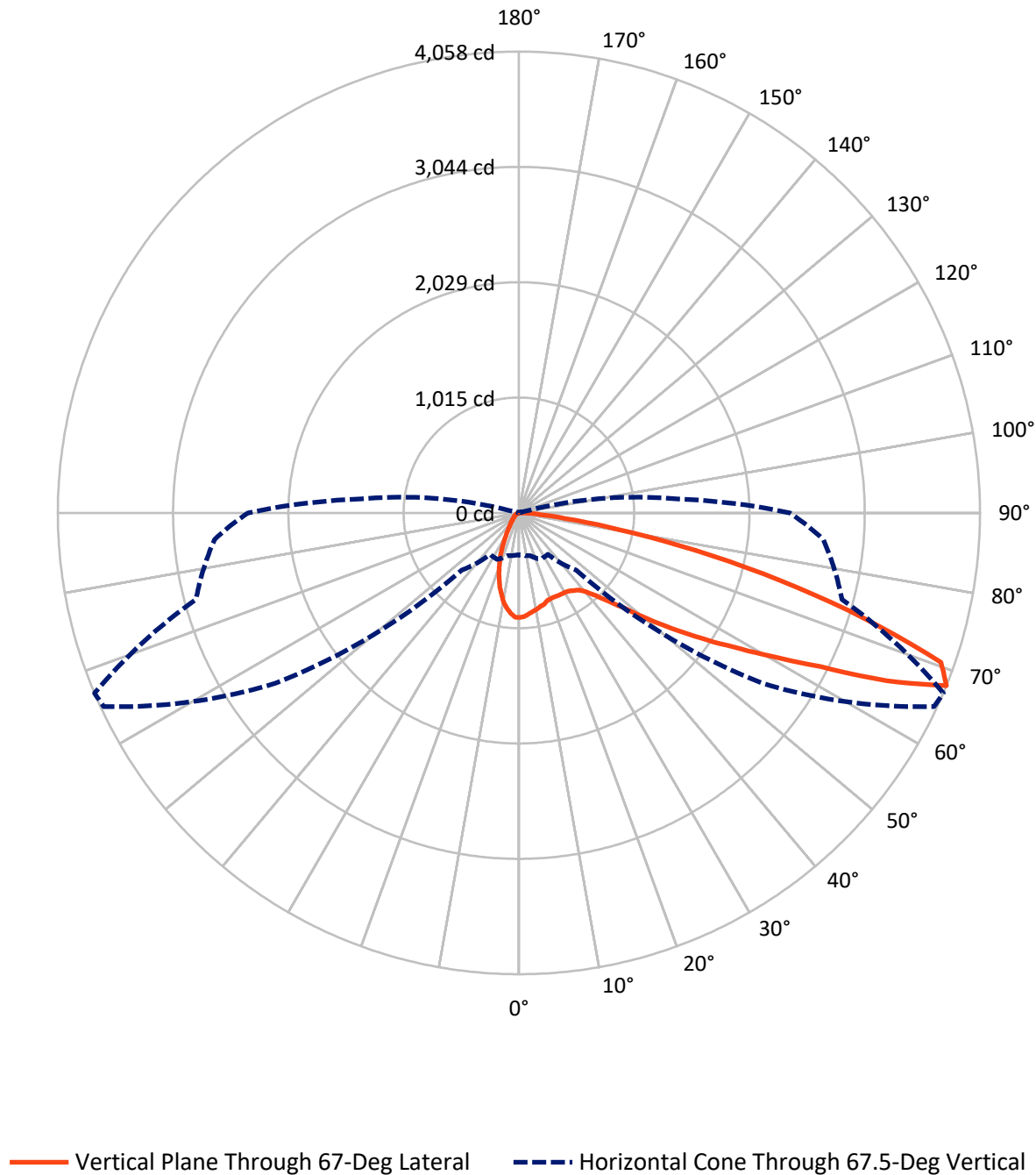
✕ Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 4.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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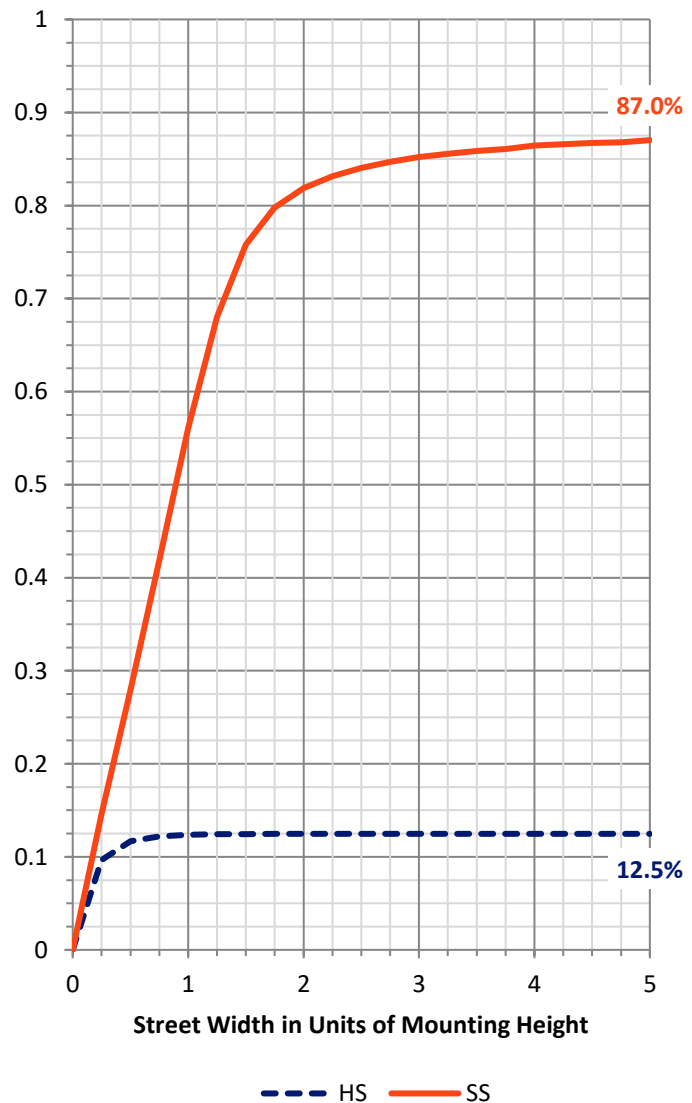
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	472.0	0.0	472.0
	% Fixture	12.6	0.0	12.6
Street Side	Lumens	3278.5	0.0	3278.5
	% Fixture	87.4	0.0	87.4
Total	Lumens	3750.5	0.0	3750.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.5	2.1
10°-20°	172.2	4.6
20°-30°	244.8	6.5
30°-40°	356.5	9.5
40°-50°	551.8	14.7
50°-60°	846.8	22.6
60°-70°	918.0	24.5
70°-80°	517.9	13.8
80°-90°	65.1	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°	3750.5	100.0
0°-180°	3750.5	100.0

Coefficient of Utilization



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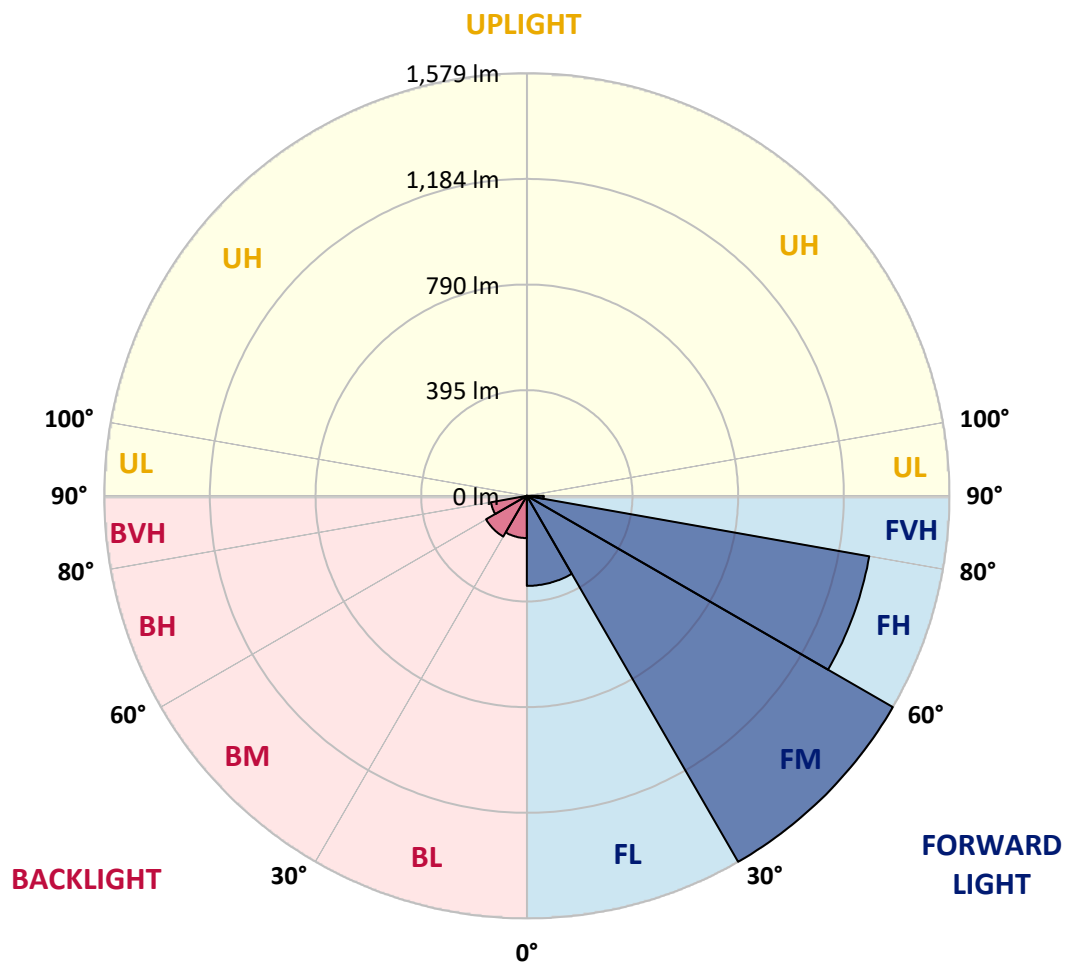
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	336.5	9.0			
FM	(30°-60°)	1579.3	42.1			
FH	(60°-80°)	1299.5	34.6			G1/1800
FVH	(80°-90°)	63.2	1.7			G1/100
BL	(0°-30°)	158.0	4.2	B1/500		
BM	(30°-60°)	175.8	4.7	B0/220		
BH	(60°-80°)	136.3	3.6	B1/500		G1/500
BVH	(80°-90°)	1.9	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°	919.9	919.9	919.9	919.9	919.9	919.9	919.9	919.9	919.9	919.9	919.9
2.5°	880.2	884.7	891.0	900.1	906.4	902.8	905.5	920.8	912.7	919.9	916.3
5°	831.4	835.9	844.9	844.0	851.3	864.8	882.9	902.8	893.7	915.4	923.6
7.5°	780.8	779.0	779.0	797.9	813.3	832.3	842.2	874.8	875.7	894.6	914.5
10°	734.7	740.1	749.1	756.4	770.8	797.9	826.9	852.2	862.1	900.1	905.5
12.5°	706.7	709.4	720.2	726.6	745.5	771.7	802.5	835.0	843.1	882.0	908.2
15°	694.9	701.3	704.9	716.6	726.6	751.0	773.5	810.6	834.1	864.8	897.3
17.5°	704.0	701.3	703.1	706.7	718.4	740.1	764.5	801.6	809.7	861.2	910.0
20°	715.7	716.6	711.2	709.4	706.7	727.5	747.3	795.2	804.3	861.2	918.1
22.5°	747.3	737.4	747.3	732.9	718.4	727.5	746.4	796.1	802.5	860.3	926.3
25°	786.2	788.0	790.7	760.0	739.2	732.9	752.8	798.8	804.3	867.5	929.9
27.5°	841.3	849.5	835.9	820.5	779.0	747.3	751.9	797.0	807.0	863.9	938.9
30°	915.4	909.1	910.9	875.7	835.0	785.3	772.6	801.6	808.8	868.4	956.1
32.5°	979.6	972.4	985.0	972.4	908.2	839.5	797.0	810.6	818.7	879.3	970.5
35°	1019.3	1028.4	1048.3	1061.8	1007.6	910.0	837.7	835.0	838.6	884.7	981.4
37.5°	1080.8	1097.1	1113.3	1147.7	1100.7	996.8	901.9	866.6	860.3	910.9	986.8
40°	1147.7	1143.1	1191.0	1231.7	1229.9	1118.7	991.3	922.7	913.6	952.5	1023.0
42.5°	1203.7	1199.2	1252.5	1319.4	1326.6	1236.2	1093.4	1002.2	994.0	1016.6	1067.2
45°	1276.9	1280.5	1343.8	1423.3	1449.5	1391.7	1231.7	1116.0	1111.5	1104.3	1151.3
47.5°	1342.0	1361.8	1416.1	1510.0	1604.9	1552.5	1394.4	1282.3	1250.7	1234.4	1281.4
50°	1387.1	1405.2	1471.2	1571.5	1745.0	1778.4	1576.9	1459.4	1460.3	1420.6	1445.9
52.5°	1387.1	1386.2	1439.6	1571.5	1842.6	2014.3	1820.9	1682.6	1689.9	1648.3	1650.1
55°	1253.4	1250.7	1315.7	1455.8	1831.7	2241.1	2190.5	1965.5	1947.4	1867.0	1875.1
57.5°	1009.4	1015.7	1065.4	1233.5	1690.8	2346.8	2630.6	2283.6	2222.1	2055.9	2055.9
60°	736.5	731.1	768.1	885.6	1354.6	2307.1	2992.1	2658.6	2561.9	2212.2	2188.7
62.5°	560.3	559.4	569.3	609.1	859.4	2011.6	3147.5	3135.8	2978.5	2365.8	2332.4
65°	452.7	454.5	468.1	496.1	525.0	1371.8	3065.3	3705.1	3561.4	2594.4	2485.1
67.5°	369.6	374.1	390.4	450.9	444.6	710.3	2610.7	4031.3	4058.4	2943.3	2690.2
70°	284.7	291.9	310.9	396.7	428.3	472.6	1810.1	3868.6	3940.9	3160.1	2566.4
72.5°	193.4	192.5	233.1	321.7	432.9	432.9	1007.6	3115.9	3184.5	2913.4	2229.4
75°	104.8	111.2	154.5	243.1	396.7	418.4	573.8	2280.0	2376.7	2265.5	1724.2
77.5°	56.9	57.8	85.8	159.0	329.8	399.4	383.2	1550.7	1588.7	1366.4	944.3
80°	29.8	30.7	45.2	103.9	227.7	370.5	319.0	924.5	888.3	524.1	311.8
82.5°	13.6	14.5	22.6	65.1	145.5	291.9	275.6	446.4	412.1	146.4	94.9
85°	5.4	5.4	9.9	38.9	84.9	143.7	235.9	224.1	187.1	44.3	47.0
87.5°	1.8	1.8	2.7	15.4	34.3	85.8	125.6	118.4	81.3	16.3	25.3
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°	919.9	919.9	919.9	919.9	919.9	919.9	919.9	919.9	919.9	919.9	919.9
2.5°	912.7	922.7	919.9	918.1	901.0	899.2	897.3	881.1	886.5	872.9	882.0
5°	918.1	923.6	909.1	882.0	857.6	830.5	809.7	795.2	769.0	759.1	757.3
7.5°	912.7	912.7	882.9	839.5	791.6	747.3	691.3	651.5	621.7	599.1	607.3
10°	905.5	894.6	863.9	787.1	700.3	633.5	553.0	494.3	450.0	435.6	426.5
12.5°	905.5	886.5	817.8	713.0	600.9	499.7	403.9	327.1	284.7	259.4	255.7
15°	897.3	869.3	784.4	643.4	504.3	366.9	257.5	191.6	155.4	145.5	141.9
17.5°	899.2	865.7	734.7	561.2	391.3	244.0	157.2	121.1	112.1	107.5	108.4
20°	902.8	865.7	690.4	480.8	281.9	151.8	108.4	102.1	97.6	95.8	96.7
22.5°	914.5	848.6	645.2	398.5	190.7	109.3	95.8	89.5	85.8	83.1	82.2
25°	916.3	845.8	601.8	317.2	131.0	92.2	84.0	76.8	72.3	68.7	67.8
27.5°	913.6	834.1	541.3	235.9	98.5	82.2	71.4	64.2	57.8	55.1	54.2
30°	923.6	812.4	489.8	169.9	83.1	71.4	60.5	52.4	47.0	43.4	43.4
32.5°	924.5	793.4	432.9	121.1	75.9	63.3	51.5	42.5	37.1	35.2	35.2
35°	925.4	776.3	369.6	92.2	67.8	54.2	42.5	35.2	31.6	28.9	28.9
37.5°	928.1	763.6	311.8	77.7	60.5	46.1	35.2	28.9	25.3	24.4	24.4
40°	933.5	746.4	251.2	68.7	52.4	38.9	29.8	24.4	20.8	19.9	19.0
42.5°	948.0	741.9	200.6	61.4	47.0	32.5	24.4	19.9	17.2	15.4	14.5
45°	1007.6	753.7	155.4	56.9	39.8	27.1	20.8	16.3	12.7	11.7	10.8
47.5°	1105.2	792.5	122.9	50.6	33.4	22.6	17.2	12.7	9.9	9.0	8.1
50°	1253.4	881.1	100.3	45.2	28.0	19.0	13.6	9.9	7.2	6.3	6.3
52.5°	1447.7	1000.4	86.8	39.8	22.6	16.3	10.8	7.2	5.4	4.5	4.5
55°	1646.5	1141.3	81.3	34.3	19.0	13.6	8.1	5.4	3.6	2.7	2.7
57.5°	1829.0	1232.6	78.6	28.0	16.3	9.9	6.3	3.6	1.8	0.9	0.9
60°	1942.9	1299.5	70.5	22.6	12.7	8.1	4.5	1.8	0.9	0.0	0.0
62.5°	2092.9	1367.3	57.8	17.2	9.0	5.4	2.7	0.9	0.0	0.0	0.0
65°	2290.8	1443.2	45.2	13.6	7.2	3.6	1.8	0.9	0.0	0.0	0.0
67.5°	2385.7	1403.4	30.7	9.9	4.5	1.8	0.9	0.0	0.0	0.0	0.0
70°	2195.9	1182.0	21.7	7.2	2.7	0.9	0.9	0.0	0.0	0.0	0.0
72.5°	1846.2	926.3	16.3	4.5	1.8	0.9	0.0	0.0	0.0	0.0	0.0
75°	1360.9	579.3	12.7	3.6	1.8	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	722.0	216.0	9.0	2.7	0.9	0.0	0.0	0.0	0.0	0.0	0.0
80°	213.3	63.3	6.3	1.8	0.9	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	70.5	19.0	3.6	1.8	0.9	0.0	0.0	0.0	0.0	0.0	0.0
85°	36.1	7.2	1.8	1.8	0.9	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	20.8	2.7	1.8	1.8	0.9	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)