

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: P675336

Luminaire Tested: **CCW-SA-1E-840-U-T4W**

Issue Date: 04/25/2023

Test Information

Test Method: LM-79-08
Report Number: P675336
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1E-840-U-T4W
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @1050mA w/
T4W distribution lens
Light Source: (16) 4000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5880.7 lumens
Efficiency: N/A
Efficacy: 104.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B1 - U0 - G2

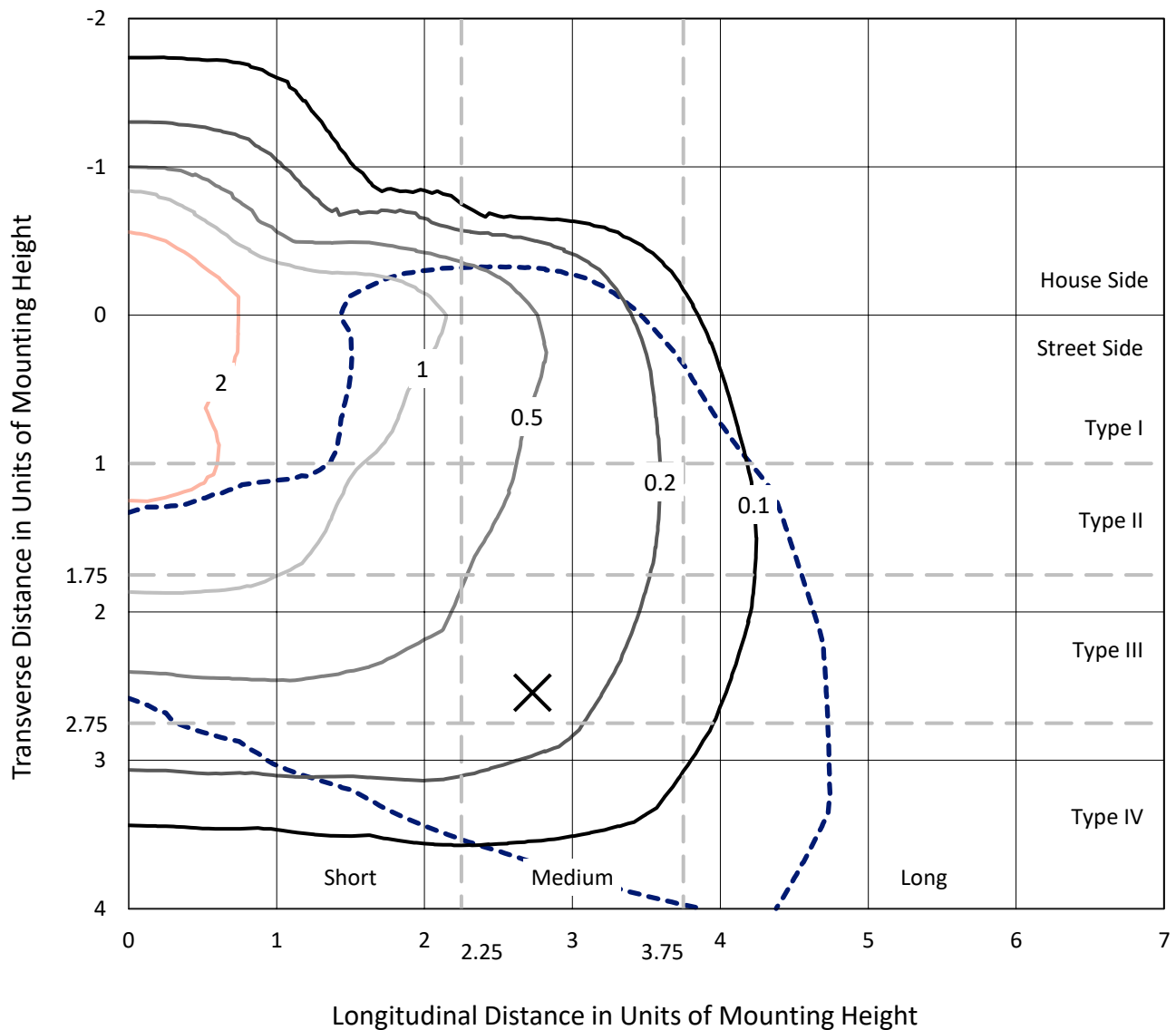
Input Watts (W): 56.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT

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Iso-Footcandle Lines of Horizontal Illumination

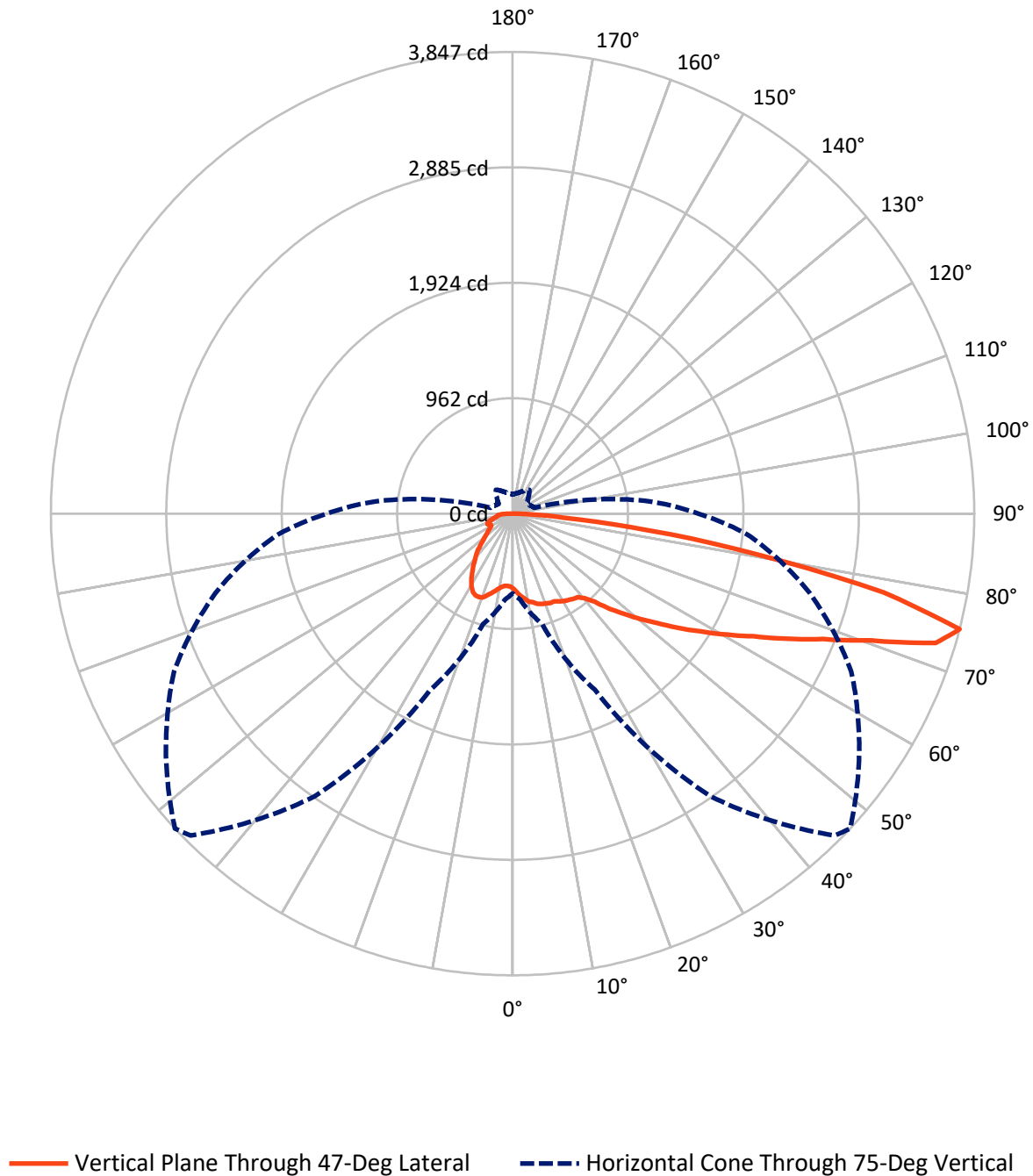
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 3.5 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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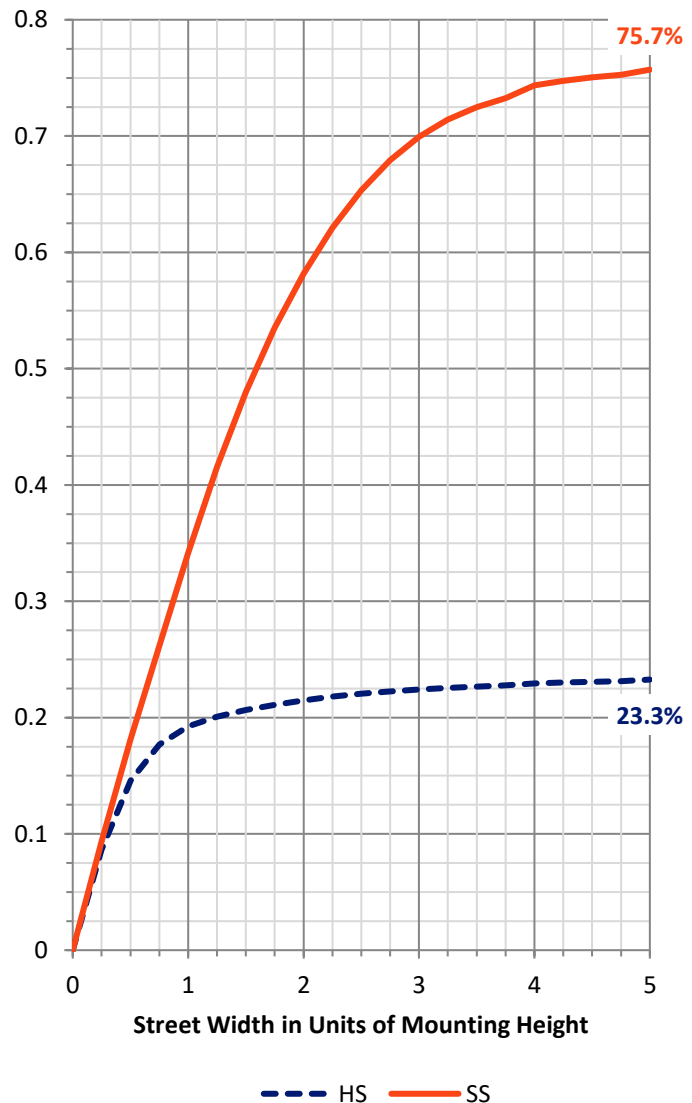
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1406.4	0.0	1406.4
	% Fixture	23.9	0.0	23.9
Street Side	Lumens	4474.3	0.0	4474.3
	% Fixture	76.1	0.0	76.1
Total	Lumens	5880.7	0.0	5880.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.1	1.1
10°-20°	209.6	3.6
20°-30°	359.0	6.1
30°-40°	502.4	8.5
40°-50°	700.5	11.9
50°-60°	1047.0	17.8
60°-70°	1509.5	25.7
70°-80°	1284.9	21.8
80°-90°	204.7	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°	5880.7	100.0
0°-180°	5880.7	100.0



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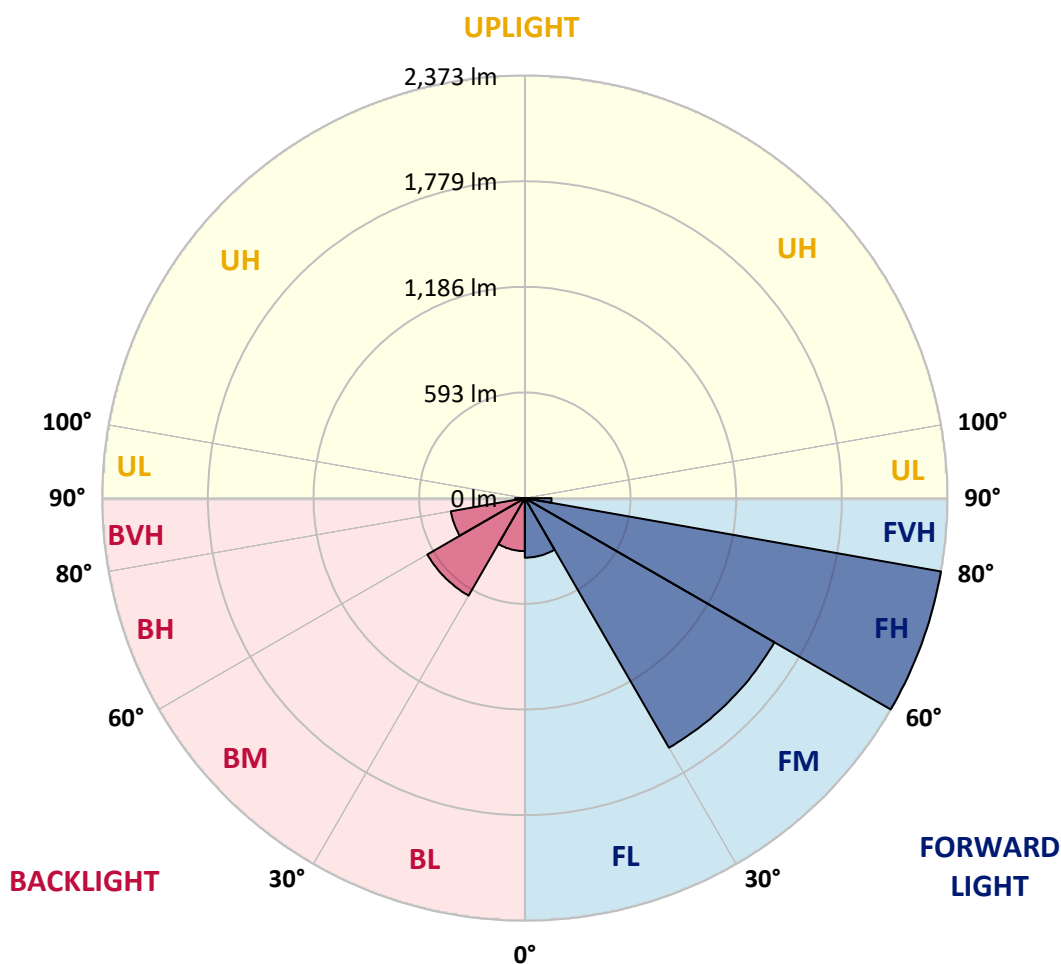
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	334.1	5.7			
FM	(30°-60°)	1617.7	27.5			
FH	(60°-80°)	2372.5	40.3			G2/5000
FVH	(80°-90°)	150.0	2.6			G2/225
BL	(0°-30°)	297.7	5.1	B1/500		
BM	(30°-60°)	632.1	10.7	B1/1000		
BH	(60°-80°)	421.9	7.2	B1/500		G1/500
BVH	(80°-90°)	54.7	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-G2

Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	624.4	624.4	624.4	624.4	624.4	624.4	624.4	624.4	624.4	624.4	624.4
2.5°	669.5	671.6	671.6	667.3	663.0	654.4	654.4	645.9	641.6	630.8	626.6
5°	731.7	725.3	718.8	716.7	705.9	690.9	688.8	680.2	656.6	645.9	630.8
7.5°	776.8	774.6	772.5	763.9	744.6	721.0	714.5	701.7	678.0	656.6	639.4
10°	813.2	821.8	813.2	793.9	774.6	748.9	746.7	723.1	701.7	675.9	654.4
12.5°	854.0	856.1	841.1	817.5	787.5	766.0	757.4	748.9	725.3	703.8	671.6
15°	881.9	877.6	866.9	834.7	800.4	778.9	781.0	770.3	744.6	729.5	695.2
17.5°	881.9	881.9	864.7	841.1	811.1	791.8	791.8	785.3	768.2	746.7	723.1
20°	864.7	864.7	854.0	841.1	806.8	802.5	798.2	793.9	793.9	774.6	740.3
22.5°	843.3	839.0	843.3	821.8	798.2	802.5	808.9	806.8	800.4	783.2	759.6
25°	821.8	824.0	828.2	813.2	791.8	811.1	808.9	819.7	815.4	802.5	783.2
27.5°	819.7	824.0	826.1	811.1	802.5	819.7	828.2	839.0	841.1	828.2	804.6
30°	851.9	849.7	847.6	828.2	821.8	836.8	845.4	860.4	873.3	845.4	826.1
32.5°	935.5	922.7	909.8	858.3	839.0	849.7	858.3	879.7	881.9	866.9	839.0
35°	1068.6	1060.0	1017.1	927.0	873.3	862.6	871.2	886.2	890.5	879.7	858.3
37.5°	1220.9	1216.6	1156.5	1047.1	944.1	892.6	884.0	905.5	922.7	899.1	869.0
40°	1371.1	1353.9	1311.0	1203.7	1034.2	937.7	927.0	937.7	944.1	927.0	907.6
42.5°	1506.3	1487.0	1476.3	1369.0	1152.3	1012.8	1004.2	978.4	997.8	976.3	950.6
45°	1620.0	1615.7	1611.4	1519.2	1287.4	1135.1	1128.6	1062.1	1083.6	1066.4	1029.9
47.5°	1701.6	1720.9	1714.4	1662.9	1441.9	1266.0	1246.7	1160.8	1193.0	1175.9	1139.4
50°	1798.1	1808.8	1802.4	1768.1	1585.7	1416.2	1379.7	1291.7	1328.2	1326.1	1306.7
52.5°	1883.9	1916.1	1879.7	1877.5	1791.7	1579.3	1517.0	1433.3	1493.4	1517.0	1514.9
55°	1984.8	2010.5	1999.8	1995.5	1976.2	1738.0	1682.2	1581.4	1682.2	1716.6	1746.6
57.5°	2070.6	2068.5	2109.2	2158.6	2182.2	1920.4	1853.9	1735.9	1888.2	1926.9	2010.5
60°	2109.2	2145.7	2214.4	2338.8	2405.4	2115.7	2047.0	1952.6	2096.4	2126.4	2280.9
62.5°	2135.0	2167.2	2300.2	2510.5	2549.1	2315.2	2250.9	2156.4	2323.8	2345.3	2574.9
65°	2064.2	2094.2	2358.1	2574.9	2712.2	2529.8	2514.8	2416.1	2551.3	2564.1	2883.8
67.5°	1982.6	2014.8	2308.8	2656.4	2928.9	2815.2	2791.6	2673.6	2776.6	2761.5	3119.9
70°	1838.9	1881.8	2182.2	2727.2	3169.2	3214.3	3167.1	2999.7	3010.4	2868.8	3130.6
72.5°	1401.2	1429.1	1708.0	2446.1	3280.8	3767.9	3686.3	3351.6	3229.3	2890.3	2763.7
75°	665.2	716.7	952.7	1617.9	2875.3	3793.6	3847.3	3525.4	3113.4	2564.1	1959.0
77.5°	193.1	193.1	289.7	686.6	1802.4	3057.7	3158.5	2993.3	2568.4	1899.0	1029.9
80°	105.1	111.6	152.3	242.5	791.8	1929.0	2074.9	1984.8	1512.7	751.0	266.1
82.5°	60.1	62.2	100.8	145.9	360.5	1049.3	1135.1	1029.9	575.1	227.4	124.5
85°	34.3	36.5	57.9	96.6	214.6	386.2	420.6	364.8	231.7	152.3	62.2
87.5°	17.2	17.2	27.9	45.1	109.4	109.4	107.3	130.9	139.5	92.3	27.9
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°	624.4	624.4	624.4	624.4	624.4	624.4	624.4	624.4	624.4	624.4	624.4
2.5°	624.4	622.3	622.3	613.7	611.5	605.1	605.1	600.8	598.7	605.1	605.1
5°	626.6	615.8	613.7	605.1	607.2	602.9	611.5	607.2	605.1	605.1	602.9
7.5°	630.8	620.1	611.5	605.1	602.9	609.4	620.1	620.1	633.0	626.6	626.6
10°	641.6	635.1	624.4	620.1	620.1	626.6	639.4	648.0	658.7	658.7	652.3
12.5°	667.3	656.6	643.7	637.3	645.9	652.3	665.2	673.8	686.6	690.9	686.6
15°	686.6	675.9	671.6	667.3	673.8	682.3	693.1	701.7	716.7	721.0	718.8
17.5°	712.4	699.5	697.4	699.5	703.8	710.2	716.7	723.1	733.8	733.8	733.8
20°	725.3	721.0	718.8	725.3	733.8	742.4	738.1	733.8	731.7	736.0	733.8
22.5°	748.9	744.6	746.7	753.1	753.1	748.9	742.4	727.4	723.1	727.4	723.1
25°	770.3	766.0	766.0	761.7	759.6	744.6	731.7	718.8	703.8	710.2	708.1
27.5°	791.8	789.6	789.6	772.5	751.0	725.3	708.1	693.1	684.5	695.2	688.8
30°	817.5	819.7	808.9	768.2	716.7	688.8	669.5	667.3	665.2	671.6	669.5
32.5°	841.1	843.3	826.1	761.7	690.9	637.3	618.0	620.1	630.8	641.6	652.3
35°	854.0	864.7	843.3	740.3	639.4	579.3	557.9	577.2	596.5	611.5	622.3
37.5°	877.6	905.5	869.0	716.7	594.4	527.8	512.8	519.3	542.9	566.5	577.2
40°	911.9	944.1	875.5	671.6	534.3	476.4	467.8	469.9	478.5	493.5	504.2
42.5°	972.0	1006.3	881.9	613.7	474.2	444.2	420.6	414.1	407.7	407.7	405.5
45°	1060.0	1092.2	873.3	540.7	414.1	392.7	375.5	360.5	343.3	315.4	319.7
47.5°	1188.7	1214.5	879.7	476.4	358.3	341.2	328.3	311.1	285.4	255.3	253.2
50°	1384.0	1345.4	871.2	409.8	317.6	302.5	291.8	268.2	238.2	216.7	214.6
52.5°	1611.4	1534.2	862.6	354.0	283.2	270.4	261.8	236.0	208.1	197.4	195.3
55°	1886.1	1774.5	875.5	304.7	257.5	246.8	238.2	214.6	193.1	184.5	182.4
57.5°	2210.1	2034.1	946.3	266.1	229.6	225.3	223.2	203.8	184.5	178.1	175.9
60°	2514.8	2283.0	993.5	238.2	203.8	208.1	212.4	203.8	182.4	178.1	178.1
62.5°	2770.1	2489.0	918.4	214.6	191.0	203.8	223.2	216.7	208.1	212.4	208.1
65°	2995.4	2559.8	686.6	201.7	184.5	214.6	246.8	244.6	225.3	229.6	227.4
67.5°	3034.0	2474.0	448.5	191.0	180.2	236.0	276.8	251.0	212.4	212.4	206.0
70°	2873.1	2244.4	300.4	180.2	178.1	236.0	283.2	236.0	199.6	199.6	191.0
72.5°	2358.1	1793.8	231.7	169.5	163.1	210.3	268.2	223.2	186.7	182.4	167.4
75°	1549.2	1156.5	188.8	160.9	141.6	184.5	242.5	206.0	178.1	165.2	158.8
77.5°	759.6	519.3	158.8	141.6	122.3	160.9	221.0	195.3	167.4	154.5	150.2
80°	208.1	186.7	133.0	124.5	103.0	139.5	208.1	186.7	156.6	143.8	137.3
82.5°	118.0	115.9	107.3	100.8	85.8	139.5	210.3	186.7	148.1	145.9	124.5
85°	64.4	68.7	77.2	75.1	66.5	124.5	199.6	163.1	120.2	100.8	100.8
87.5°	25.7	32.2	38.6	42.9	45.1	92.3	150.2	124.5	92.3	77.2	77.2
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)